HPSS Error Manual

High Performance Storage System, Version 7.4

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Chapter 1. Problem Diagnosis and Resolution

This chapter provides advice for solving selected problems with HPSS infrastructure components, servers, and user interfaces. Note that a problem may have more than one diagnosis and resolution.

1.1. HPSS Infrastructure Problems

The sections below describe infrastructure problems with RPC, DB2, and Security.

1.1.1. RPC Problems

One HPSS server cannot communicate with another

Diagnosis 1: The target server may not have registered its RPC endpoint properly .

Resolution: Verify proper registration of the server with RPC. If shutting down the target server and restarting it does not fix the problem, you may have to manually delete the server's RPC entry.

Diagnosis 2: A communications failure may exist or security may be disallowing communication.

Resolution: First verify that the network is up and the server is running. A less obvious cause for the problem may be that the server is not accepting calls from the client because of security reasons. To fix this problem, make sure that the client and server are using consistent security policies, and that they have both been properly authenticated.

Diagnosis 3: The `/var/hpss` filesystem may be full.

Resolution: If `/var/hpss` is full, try to determine what is causing the filesystem to fill up. Common problems are `/var/hpss` being too small, log files that are not being archived properly, or core files from an HPSS server.

Diagnosis 4: The server may be logging too many messages.

Resolution: If a server (most notably the SSM) is forced to process too many log messages, it can become too busy to communicate with other servers. To fix the problem, turn off unneeded messages (particularly, trace and request messages). If the server is still overloaded, debug messages may be turned off. However, this may lead to insufficient information to diagnose failures.

Diagnosis 5: A server may be too busy to respond.

Resolution: If a server is very busy, other servers will not be able to communicate with it. To solve the problem, do what is necessary to decrease the load on the server. For example, you might try increasing the server's thread pool size and/or maximum connection count, moving the server to a different machine, or adjusting one of the server-specific configuration parameters.

Diagnosis 6: A node does not have a network route to an interface being used by a server on a different host.

Resolution: Verify that all nodes that will be clients of a server running on another node (including servers that are clients of other servers) have network routes to all of the network interfaces that may be used by the server nodes. For example, if a server running on a node registers its service interface on both an Ethernet and Fiber Distributed Data Interface (FDDI), verify that all nodes that contain clients of that server have connectivity to both those interface addresses.

Diagnosis 7: The server may not have enough RPC connections defined which are necessary for communication.

Resolution: Increase the number of **Maximum Connections** under the **Interface Controls** tab of the server's **Server Configuration**.

A server cannot obtain its credentials

Diagnosis: There may be a problem with the keytab table.

Resolution: Make sure the keytab table (typically `/var/hpss/etc/hpss.keytabs`) is readable by the UNIX username under which the server is running. Make sure that the key contained in the keytab table is the correct one. Look for extra versions of the servers key; they can interfere with the authentication process.

A server cannot register its RPC info

Diagnosis: Stale RPC information may exist for the server in the RPC table.

Resolution: Use `rpcinfo -p` to see if the RPC program number for the server interface is already registered. If the interface is registered it can be removed using `rpcinfo -d <program number> <version>`.

The connection table may have overflowed

Diagnosis: The server may be so heavily loaded that it is unable to free up connections easily.

Resolution: Do what is necessary to reduce the load on the server. The problem may also indicate that a server is configured incorrectly, or that there is a software problem in handling connections properly. To solve the problem, increase the number of **maximum connections** parameter under the **Interface Controls** tab of the server's **Server Configuration**.

1.1.2. DB2 Problems

HPSS servers cannot communicate with DB2

Diagnosis: DB2 is not running.

Resolution: Verify whether DB2 is running and restart as appropriate. Authenticate as the DB2 instance owner and start DB2 with the db2start command. There is no harm in executing this if the DB2 instance is already running.

One or more HPSS servers are receiving metadata or DB2 errors

Diagnosis 1: Permissions on the DB2 tables may not be set correctly.

Resolution: Grant appropriate permissions to the table with the following command:

```
$ db2 GRANT DELETE,INSERT,UPDATE,SELECT ON TABLE <tableName> TO GROUP
hpsssrvr
```

Diagnosis 2: HPSS servers run under a certain UNIX username (usually root or hpss) and those UNIX identities do not have access to DB2.

Resolution: Ensure that users root and hpss have access to DB2. You can easily accomplish this with the DB2 GUI, control center. Start the control center as the instance owner:

```
% su - hpssdb
% db2cc
```

Now expand the directory tree on the left, to show the database names within HPSS (usually *cfg* and *subsys1*, etc.). Right click on each database and select "Authorities". This will bring up a window that will allow you to add UNIX users or groups and assign DB2 authorities to those users or groups. Ensure that hpss and root appear in the list and have the proper authorities.

Diagnosis 3: DB2 appears to not be running or appears hung.

Resolution: Check the DB2 message log to view any internal DB2 errors that might exist. To do this, login as the instance owner:

```
% su - hpssdb
```

And use an editor to view the text file for DB2 messages in the instance owner’s home directory:

```
% cd ~hpssdb/sqllib/db2dump
% view db2diag.log
```

The other files that you see in this directory are binary files intended for submittal to DB2 customer support to further diagnose DB2 internal errors.

Diagnosis 4: Subsystem database tables may be missing.

Resolution: If you have added a new storage sub-system, the associated database may not be populated with the necessary tables and indexes. This can be corrected with the use of the **hpss_managetables** utility program, but contact HPSS support first for confirmation of the situation and instructions on how to proceed. Creating and deleting metadata tables should be done only when the circumstances of the situation are fully understood.

Diagnosis 5: Some other DB2 error condition exists.

Resolution: Examine the DB2 or metadata return code(s) reported by the HPSS server. Take special note of the SQL or SQLSTATE error code. Consult the DB2 Message Reference or DB2 / HPSS technical support personnel to determine the appropriate resolution to the problem.

Cannot start DB2 instance

Diagnosis: Upon issuing a DB2 command, you receive the following error:

```
SQL1032N No start database manager command was issued. SQLSTATE=57019.
```

Resolution: In order to manually start DB2, you can use the db2start or **rc.hpss** command. If DB2 still does not start, we recommend you look at all DB2 environment variables and make sure they are valid. To see a list of DB2 environment variables, issue:

```
% db2set -all
```

In particular, ensure that if DB2_VENDOR_INI is set, that the file it points to exists. DB2_VENDOR_INI is used by the HPSS backup utilities and it will prevent DB2 from starting if the file it points to does not exist.

For more details on the problem, consider using tracing. To use tracing:

```
# command to trace using a 8000000 byte file size
% db2trc on -l 8000000 -e -1 -t
% db2trc dump <filename.trc>
% db2trc off

# now format the trace file in your current working directory
% db2trc fmt <filename.trc> <filename.fmt>

# at this point, ensure the trace did not wrap by viewing
<filename.fmt>
# if it did wrap, increase -l from 8000000 to large value and try
again.
# also create a flow of the trace dump
% db2trc flw <filename.trc> <filename.flw>
```

Certain HPSS operations hang or fail under a heavy load

Diagnosis: DB2 is highly tunable and some settings can affect the volume of requests or the size of requests that can be made before DB2 will either hang or timeout and return an error.

Resolution: If DB2 hangs, first check the amount of paging occurring on the system. Occasionally, excessive paging may slow a system down so much that it may appear to be hung. Excessive paging is usually a result of poor memory allocation. Lacking a memory monitoring tool, you could try

```
% ps -eal | grep db2 | sort -r +9
```

to see a list of the DB2 processes using the most memory. If this number is unreasonable, we recommend you look at the size of buffer pools in DB2 and other basic memory allocations within DB2.

The MAXAGENTS database manager configuration parameter affects the number of connections or agents allowed by DB2 and ultimately the number of users that can perform operations within HPSS. Ensure this parameter is set to correspond to the number of DB2 connections or agents you wish to allow. We recommend setting this to 400, but it can be set much higher depending on system load.

Several database configuration parameters affect behavior of HPSS when system load is high (either many users, or several users manipulating HPSS files with unusual characteristics; like 10,000 storage segments). These include: LOCKTIMEOUT, LOCKLIST and MAXLOCKS.

LOCKTIMEOUT default setting is -1 for each database. For HPSS subsystem databases, this setting should be set to something other than -1; we recommend 60. This will allow an error to be returned to the application requesting an HPSS operation that DB2 cannot handle when load is high. Otherwise, DB2 can escalate the lock placed on a certain row to a table lock, which can easily cause all DB2 agents to enter lock-wait status and wait indefinitely for the first application to finish (a type of artificial deadlock). You can track down this behavior by issuing a

```
% db2 list applications show detail
```

and ensuring that no more than one agent is listed as having a lock-wait status.

LOCKLIST default setting is 100 4KB pages or 400KB of memory total. Under heavy load or for certain combinations of unusual operations, like a few users manipulating HPSS files with thousands of storage segments, this setting may not be adequate. We recommend setting this parameter to at least 500 4KB pages. This should allow HPSS to continue to operate even under heavy loads.

MAXLOCKS default setting is 77 percent. We recommend keeping this at the default setting. This setting could affect the amount of DB2 work a single HPSS operation can perform. For example, if you had one user trying to delete an HPSS file with 15,000 storage segments, the operation could fail if this setting was below 77 or the LOCKLIST setting was too low, as DB2 would only allow this HPSS operation to utilize 77 percent of the total amount of memory (LOCKLIST) allowed within this database.

These settings only apply to subsystem databases, not the configuration database. These settings still depend on load and usage of the system. If several different users try to unlink several files with 10,000 storage segments each, then the site will have to consider increasing LOCKLIST significantly until DB2 and HPSS allow the operations to succeed. The critical setting is LOCKTIMEOUT be set to something other than -1. This will prevent DB2 from hanging and will allow the operation to time out and produce an error that can be seen in the HPSS logs (typically in `/var/hpss/log`).

1.1.3. Security Problems

HPSS servers are unable to connect to other HPSS servers

Diagnosis: This problem can be caused by several configuration or installation errors.

Resolution: Check to see that the configuration of the affected servers (both client and server) are correctly defined with appropriate permissions granted in the AUTHZACL table. If the configuration entries appear valid but servers still cannot connect, turn on **TRACE** and **DEBUG** logging and attempt to restart both servers. Check for Kerberos-related log messages and take action accordingly. For additional information that may help with this problem, see *RPC Problems [#rpc-problems]*.

Client API users get "credentials expired" errors

Diagnosis: This problem occurs because the Kerberos security service puts a time limit on the credentials cache obtained using **kinit**.

Resolution: Review the Kerberos documentation on the **kinit** commands for your realm to identify options for increasing the credential’s lifetime and renewability.

1.2. HPSS Server Problems

The paragraphs below discuss problems common to all servers; problems with the Core Server, Migration/Purge Server, PVL, PVR, GK, LS, and Mover; and problems with Logging Services, Startup Daemon, and SSM.

HPSS Servers are started in separate directories to prevent the overwriting of core files in the event of an abnormal termination. The parent of these directories is determined by the HPSS_PATH_CORE environment variable, with the default being `/var/hpss/adm/core`. Within that directory, subdirectories are created based on the Server descriptive name (with spaces replaced by underscores and parentheses dropped - e.g., for the Mover with descriptive name "Mover (hpss)", the directory created will be "Mover_hpss"). Core files detected during server startup will be renamed based on the date and time that the core file was written (of the form core.YYYY_MMDD_hhmmss, where YYYY is the year, MMDD the month and day, and hhmmss is the hour, minute and second).

In addition, a log is maintained of servers that terminate with an abnormal termination code. The parent directory of the log file is determined by the HPSS_PATH_ADM environment variable, with the default being /var/hpss/adm. The file name is hpssd.failed_server.

If an HPSS server terminates abnormally, the appropriate core file should be saved. In addition, examine the HPSS log files for messages logged by the server and other servers interfacing with the server around the time of the abnormal termination You should probably contact your HPSS support representative any time a server terminates abnormally.

1.2.1. General Problems

Servers cannot be started

Diagnosis 1: The **Executable** flag for a particular server is not set in the server’s configuration file.

Resolution: If the **Executable** flag for a server is not set, SSM will refuse to start that server. To fix the problem, set the flag.

Diagnosis 2: The Startup Daemon on the server’s host is not running.

Resolution: The Startup Daemon is normally started automatically at system boot time. If it is not running on the affected host, start it there manually (`rc.hpss -d start`). Once the Startup Daemon is up and SSM can connect to it, try starting the target server again.

Note that SSM cannot start the Startup Daemon.

Diagnosis 3: The Startup Daemon on the server’s host is running, but SSM cannot connect to it.

Resolution: The only way SSM can start servers is by asking the Startup Daemon to start them, so it is essential that SSM be able to connect to the Startup Daemon. See whether SSM is connected to any other HPSS servers on that host, or whether any non-HPSS program (such as **ping** or **telnet**) can communicate between the two hosts. If the network itself is all right, try the **Force Connect** button from the *Server List* window (see the *HPSS Management Guide*, Section 5.1: *Server List*) to get SSM to connect to the Startup Daemon. If this does not work, the SSM System Manager and/or the Startup Daemon may have to be restarted.

Diagnosis 4: The Startup Daemon on the server's host is running and reachable, but SSM refuses to try to connect to it because the Startup Daemon is marked non-executable.

Resolution: SSM spends a good deal of time pinging each server to make sure it is still connected to it (and trying to reconnect if it is not). In an attempt to avoid wasting resources on a server that is not going to be running anyway, SSM ignores servers whose Executable flag is not set. If the Startup Daemon itself does not have the Executable flag set, SSM will never try to connect to it. In that case, SSM will not be able to start any servers on that host because it was not connected to the Startup Daemon there. Therefore, even though SSM does not start the Startup Daemon itself, make sure the Startup Daemon's Executable flag is set.

Diagnosis 5: Environment variable HPSSLOG is set to *stdout*, *syslog*, or *file:/<filepath>* and an old logging semaphore was left behind and locked by an earlier process.

Resolution: This diagnosis can be verified by checking whether the system will start up with HPSSLOG unset or empty. If so, the problem is probably the logging semaphore. To resolve the issue, with all HPSS servers shut down, delete the semaphore. When the system is restarted, the semaphore will be created in the correct state. To delete the semaphore, issue the following command

```
% ipcrm -S 0x04c4f470
```

Servers cannot talk to one another

Diagnosis: The Domain Name Service (DNS) is *not* reachable.

Resolution: Add *all* necessary entries to the /etc/hosts file. Terminate all HPSS servers, DB2, and Kerberos. Restart the system without DNS support. Fix DNS.

1.2.2. Core Server Problems

Core Server cannot connect to SSM

Diagnosis: The SSM System Manager is not running or not responding.

Resolution: If the SSM windows are responding, check the status of SSM's connection to the Core Server at the Servers Status window and reconnect if necessary.

The Core Server takes a long time starting

Diagnosis: The PVL is not running.

Resolution: The Core Server will attempt to mount all disk volumes by calling the PVL before it completely initializes. If the PVL is down, the Core Server will retry disk mount requests for up to 5 minutes which can lead to excessive delays in the Core Server starting. Make sure the PVL is running. In order to minimize delays start the PVL before starting the Core Server.

Service parameters have been changed and a Core Server does not recognize them

Diagnosis: The Core Server has not been recycled since the changes were made.

Resolution: If any service parameters other than COS parameters have been changed, the Core Server must be recycled to pick these up. This includes Storage Class, Storage Hierarchy, and Migration Policy definitions. If COS parameters for existing COS definitions (exclusive of Hierarchy ID) are the only changes made, a reinit of the Core Server will pick up these definitions. If COS entries are added or deleted the Core Server will need to be recycled.

Receiving messages from Core Server indicating inconsistencies in account summary records

Diagnosis 1: Account summary record has been corrupted due to an incomplete DB2 recovery.

Resolution: Specialized procedures are provided to deal with this problem. Contact IBM support.

Diagnosis 2: Software problem in HPSS has resulted in the inconsistency.

Resolution: Contact IBM support.

Core Server cannot connect to Gatekeeper

Diagnosis 1: The Gatekeeper is not up.

Resolution: Restart the Gatekeeper in question. The Core Server will attempt to connect to this Gatekeeper the next time it is needed.

Diagnosis 2: The Gatekeeper is not configured into the Storage Subsystem.

Resolution: Configure the Gatekeeper into the Storage Subsystem corresponding to the Core Server. Recycle the Core Server.

Errors reading, writing, creating, or deleting metadata

Diagnosis 1: Error codes indicate that DB2 is not running or not responding.

Resolution: Check the status of DB2, and restart if necessary. The Core Server will retry timed-out DB2 operations a fixed number of times before generating an error. If DB2 has failed, it is advisable to stop all HPSS components, restart DB2, then restart all of HPSS.

Diagnosis 2: Error codes indicate DB2 failures.

Resolution: The *Alarms and Events* window will provide an alarm indicating a DB2 error has occurred. Consult the local or central HPSS log as well as the DB2 diagnostic log for clues to the source of the problem. Contact IBM support if necessary.

Core Server reports "no space"

Diagnosis 1: The disk virtual volumes are fragmented.

Resolution: When the Core Server needs to create one or more disk storage segments in which a file will be recorded it determines the size of these storage segments according to the size of the file to be

recorded. It then attempts to find free space on the disk virtual volumes it manages in which to create the disk storage segments. The free space for each segment must be allocated from contiguous disk VV blocks.

If all of the disk VVs are fragmented to a point where a storage segment cannot be created at the requested length, the Core Server will report that it is out of disk space and return an error. An alarm is also sent to the "Alarms and Events" display.

The total free disk space in the system may exceed the requested storage segment size, but if the disks are sufficiently fragmented, it may not be possible to create one or more of the storage segments.

Two solutions are available for this problem. Disk VVs can be repacked, which will create large blocks of free space, and purge parameters can be changed to increase the amount of free space in the VVs, which may increase the sizes of the largest free blocks.

Diagnosis 2: Tape VVs oversubscribed.

Resolution: In any tape storage class, there will be a certain number of tapes available to write. In some storage classes, the number may be zero. "No space" errors reported by the system about storage classes with no free tapes should be readily understandable. In other cases, the SSM *Active Storage Class* window may report a small number of free tapes. When this happens, the administrator should keep in mind that all of these tapes may be in use, causing a request for another free tape to be rejected with the "no space" error.

This problem can only be remedied by making more free tapes available in the storage class. This can be done by creating new storage resources, or by reclaiming empty tapes. The behavior of the system in this situation is by design. Tapes, unlike disks, must be assigned to a tape write request for the duration of the request, and cannot be shared among multiple requests. This means that there must be at least as many free tapes as there are requests in each storage class to avoid the "no space" error.

Core Server cannot be started

Diagnosis: Core Server died at initialization with "Invalid COS" error.

Resolution: The reference for a deleted COS was not removed from the Storage Subsystem configuration to which the Core Server belongs. Bring up the SSM Storage Subsystem Configuration window for the appropriate storage subsystem. Search for the reference to the deleted COS in the Allowed COS list and set it to "No".

Core Server Marks Tape Volumes Full Too Soon

Diagnosis: A virtual volume’s condition is set to EOM before the VV is filled, leaving some portion of the VV unused.

Resolution: Some unusual error conditions can cause the Core Server to change a virtual volume’s condition to EOM before the VV is filled, leaving some portion of the VV unused. These unusual errors include attempts to write at an address other than the end of the tape and certain I/O errors from a Mover. When one of these errors occurs, the Core Server generates an HPSS_EOM error even though End Of Media has not been reached. Depending on the nature of the error, the server may then change the VV Condition indicator to EOM.

While some of the errors that lead to this condition generate alarms, others do not. Since these errors are normally quite rare, an occasional VV left in this condition should not pose a problem in most systems. However, if one of these unusual errors becomes frequent, the administrator will probably notice free VVs being consumed at a high rate, or VVs being selected for repacking that were just written. In this case, intervention may become necessary.

Study the Core Server and Mover log messages to determine the underlying problem that is causing the Core Server to terminate the VV prematurely. DEBUG level logging will probably be necessary to obtain enough detailed information to identify and correct the problem.

HPSS will recycle these virtual volumes under normal operation. Normal attrition of tape storage segments will make the volumes likely repack candidates, particularly since they have relatively little data on them to start. To speed up the process, especially if a number of VVs are affected, the **repack** utility program can be executed from the command line to repack specific volumes (the SSM window does not support specifying specific volumes). Refer to the **repack** man page for more information on the **repack** utility. Once these volumes have been repacked, they can be reclaimed for re-use by HPSS or removed from the system.

1.2.3. Migration/Purge Server (MPS) Problems

No storage class information reported on Storage Class List window

Diagnosis: One or more of the MPSs or Core Servers is not running or cannot be connected.

Resolution: Start the MPS or Core Server. Resolve the connection problem.

A storage class does not show up in the Storage Class List window

Diagnosis 1: The storage class has been added or updated after the MPS startup has completed.

Resolution: Shut down and restart the MPS.

Diagnosis 2: No Core Server resources have been created in the storage class.

Resolution: Create the missing resource using the appropriate resource creation window (see the *HPSS Management Guide*, Sections 8.1.2.1: *Create Tape Resources Window* and 8.1.2.2 *Create Disk Resources Window*).

Diagnosis 3: The Core Server controlling the missing storage class has not been started.

Resolution: Start the Core Server.

Diagnosis 4: The storage class is not used in any hierarchies.

Resolution: Once the storage class is added to at least one hierarchy, and MPS is restarted, MPS will start reporting usage statistics for that storage class.

Diagnosis 5: The storage class is not active in a given subsystem.

Resolution: Enable a class of service which references a hierarchy containing the given storage class. This is done in the storage subsystem configuration window. Once MPS is restarted it will begin reporting statistics for those storage class resources within its assigned subsystem.

MPS is not migrating or purging data

Diagnosis 1: The Core Server for this subsystem is down.

Resolution: Start the Core Server.

Diagnosis 2: No storage space is available in one of the migration target storage classes.

Resolution: Add or reclaim resources in the given storage class within the given subsystem.

Diagnosis 3: Migration or purge is encountering errors and aborting.

Resolution:

- Make sure that a bad piece of magnetic media (disk or tape) is not causing errors in either the source or target storage classes.
- Make sure that the target files do not reside on a volume which is locked. In the case of tape migration, remember that the whole file option may involve more than one source volume.

Diagnosis 4: Migration or purge appears to be hung.

Resolution:

- Make sure that a tape mount is not hung up or failing and being retried for either the source or target storage classes (applies to migration only).
- Use Real Time Monitoring to identify a potential deadlock in the servers which participates in migration or purge and contact your customer service representative.

Purges occur more frequently or less frequently than desired

Diagnosis: The **Start Used Percent** and/or the **Target Free Percent** parameter(s) are set incorrectly in the purge policy.

Resolution: Correct the **Start Used Percent** and/or **Target Free Percent** parameter(s) in the purge policy. Shut down and restart the MPS.

Migrations occur more frequently or less frequently than desired

Diagnosis 1: The parameters are set incorrectly in the migration policy.

Resolution: Correct the **Runtime Interval, Last Read Interval, Last Update Interval** and/or **Free Space Target** parameter(s) in the migration policy. Shut down and restart the MPS.

Diagnosis 2: The **Storage Class Update Interval** parameter is set incorrectly in the Migration/Purge Specific Configuration.

Resolution: If the **Storage Class Update Interval** parameter is set too large, the MPS will sample Core Server statistics too infrequently and act on the information too late. Set this parameter to a smaller value. Shut down and restart the MPS.

Tape storage class cannot be purged

Diagnosis: Purge is not supported for tape storage classes.

Resolution: The MPS purges all the storage segments from a virtual volume as part of tape migration. There is no specific purge for tapes.

1.2.4. Physical Volume Library (PVL) Problems

Tape mount requests are not being satisfied

Diagnosis 1: The PVL is not able to connect to Mover, PVR, or Core Server.

Resolution: Look at the *Alarms and Events* window (see the *HPSS Management Guide*, Section 9.6.1: *Alarms and Events Window*) to verify that the servers has lost their connection. Determine where connectivity problems exist and proceed to the appropriate problem diagnosis below.

Diagnosis 2: Mount requests are queued in the PVL waiting for resources.

Resolution: Check PVL job queues and devices for resource shortages such as all devices being in use, multiple requests for the same cartridge, or drives being disabled. This examination should reveal the resource shortage as being drive or cartridge related. If the shortage is caused because a drive is in a disabled state, enable (unlock) the drive (if appropriate) using the *PVL Drive Information* window. If a true resource shortage exists, wait for resources to become available or cancel appropriate PVL jobs to free the required resource. If no resource shortage exists, then proceed to Diagnosis 3.

Diagnosis 3: An internal PVL job queue error has occurred.

Resolution: Use the *PVL Job Queue* window (see the *HPSS Management Guide*, Section 8.6.1: *PVL Job Queue Window*) to select the job in question. Cancel the job and retry it. If problems exist for all PVL mounts, restart the PVL.

A PVL job cannot be canceled

Diagnosis 1: The PVL is unable to connect to the Mover or PVR.

Resolution: Look at the *Alarms and Events* window (see the *HPSS Management Guide*, Section 9.6.1: *Alarms and Events Window*) to verify that the servers has lost their connection. Determine where connectivity problems exist and proceed to the problem diagnosis below.

Diagnosis 2: An internal PVL queue contains inconsistent data.

Resolution: Restart the PVL. If the problem persists, check to see if the job involves a tape mount by clicking the Job Info button on the *PVL Job Queue* window (see the *HPSS Management Guide*, Section 8.6.1: *PVL Job Queue Window*). If the job is a tape mount, determine the PVR involved by using the *Devices and Drives* window (see the *HPSS Management Guide*, Section 7.1.1: *Devices*

and Drives Window) to select the Drive ID and using the Drive Info button to activate the *PVL Drive Information* window. Shut down and restart the PVR in question.

Diagnosis 3: A Core Server has I/O requests outstanding which reserve the device causing the PVL to issue rewind *and* elevate errors.

Resolution: If data is moving to the device (this can be detected via one of the following SSM windows: *Mover Device Information*, *Core Server Disk/Tape Volume Information*, or *Mover Information*), wait for the I/O to complete. If the I/O appears hung, use a utility such as **lsof,** and **grep** for Mover processes which have the device open. Kill the Mover processes and restart if necessary.

Diagnosis 4: The Platform which hosts the Mover processes and/or device files is down. This is causing the PVL to issue rewind *and* elevate errors.

Resolution: Lock the drive via the HPSS *Devices and Drives* window. This will cause the PVL to exit the drive unload loop and issue a dismount to the PVR. You may have to manually unload the drive in order for the dismount to occur.

Core Server mount requests are not appearing in PVL job queues

Diagnosis 1: The PVL is unable to connect to the Core Server.

Resolution: Look at the *Alarms and Events* window (see the *HPSS Management Guide*, Section 9.6.1: *Alarms and Events Window*) to verify that PVL server has lost its connection to the Core server. Proceed to the Core Server connectivity failure problem given below in *PVL cannot connect to the Core Server the section called "PVL cannot connect to the Core Server"*.

Diagnosis 2: PVL and Core Server queues are not synchronized.

Resolution: After ensuring that the requests in question do not exist, restart the PVL. If this fails to correct the problem, restart the appropriate Core Server.

A tape cartridge is physically mounted in a drive but is not recognized by the system as being mounted

Diagnosis 1: PVL is unable to connect to a Mover.

Resolution: Look at the *Alarms and Events* window (see the *HPSS Management Guide*, Section 9.6.1: *Alarms and Events Window*) to verify that PVL server has lost its connection to a Mover. Proceed to the Mover connectivity failure problem description given in *PVL cannot connect to a Mover the section called "PVL cannot connect to a Mover"*.

Diagnosis 2: Drive polling is not enabled for operator PVR.

Resolution: If the drive in question is in an operator PVR (is mounted by hand), polling may not have been enabled for the drive in question. Enable polling for the appropriate drive using the *PVL Drive Information* window.

Diagnosis 3: The mount response from the PVR is lost.

Resolution: If drive polling is not enabled for the drive the cartridge is mounted in, set the polling interval. Investigate the cause of the dropped mount responses.

A drive has been added to the PVL but is not being used by the system

Diagnosis 1: The drive in question has not been enabled.

Resolution: Use the *PVL Drive Information* window (see the *HPSS Management Guide*, Section 7.1.1: *Devices and Drives Window*) to enable the drive in question for reading and/or writing.

Diagnosis 2: The PVL has not been able to notify the associated Mover and/or PVR about the new drive.

Resolution: Verify that the Mover and/or PVR associated with the new drive are up and running. If the PVL reported in the *Alarms and Events* window that it abandoned contact with the Mover and/or PVR for the new Drive ID and the Mover and/or PVR are up, restart the Mover and/or reinitialize the PVR.

Cannot delete a drive

Diagnosis 1: The PVL hasn't been able to successfully notify the Mover and/or PVR about this drive being previously added.

Resolution: Verify that the associated Mover and PVR (if tape) are up and that the PVL can communicate with them.

Diagnosis 2: The PVL is in the process of aborting a Mover/PVR notification.

Resolution: Wait a minute and retry the deletion.

Diagnosis 3: The drive is in use by the PVL.

Resolution: Stop or abort all jobs using this drive or allow them to complete. Lock the drive. Verify that the drive is not being used before retrying.

Diagnosis 4: For disk: storage resources haven't been deleted from the disk device/drive.

Resolution: Delete storage resources.

Diagnosis 5: For disk: the physical volume hasn't been exported from the disk device/drive.

Resolution: Export the volume.

Cannot add a drive

Diagnosis 1: Previous deletion of this drive is pending notification to the Mover and/or PVR.

Resolution: If a drive with the same Drive ID was previously deleted and the PVL was unsuccessful informing the associated Mover and/or PVR about the deletion (i.e. notification pends), then the drive can't be added until the PVL either notifies the Mover and/or PVR, or the PVL aborts the notification. Retrying the *add* should abort the notification. Also verify that the Mover and/or PVR are up and that the PVL can communicate with them.

Diagnosis 2: The PVL doesn't have the required permissions.

Resolution 1: Verify that the HPSS_PRINICPAL_PVL has a user entry in each Mover with *rtc* permissions. This can be done via the **hpss_server_acl** utility.

Resolution 2: Verify that the HPSS_PRINICPAL_PVL has a user entry in each PVR with *rwcdt* permissions. This can be done via the **hpss_server_acl** utility.

Diagnosis 3: The PVL doesn't know about the PVR.

Resolution: The PVL learns about all the configured PVRs upon startup of the PVL. Thus the PVL needs to be restarted after creating a new PVR.

Imports of cartridges fail due to improper labeling

Diagnosis: The **Import Type** field was used incorrectly.

Resolution: The value of the **Import Type** field can be either **Default**, **Scratch** or **Overwrite**. For disk, always use the **Scratch** import type.

- Specifying **Overwrite** or **Scratch** may cause a label to be written on to the media no matter what is currently on it, potentially causing any data on the media to be lost. Because of the potential danger of importing media as **Overwrite** or **Scratch**, a dialog box will appear to confirm the choice.

- Specifying **Default** will cause an action depending on how the media is labeled (i.e., tape or disk). For tape media, the action taken is based on the current volume label type:

  HPSS - Media imported. The volume label type for this HPSS is: media has an ANSI label; i.e., it starts with an 80-byte block starting with the characters **VOL1**. The owner field of the ANSI label is set to **HPSS**.

  Foreign - Media imported. The volume label type for Foreign is: media has an ANSI label, but the owner field is not **HPSS**.

  Non-ANSI - Import fails. The volume label type for Non-ANSI is: media starts with an 80-byte block that does not start with the characters **VOL1**.

  No label, but data found - Import fails.

  No label or data - Cartridge is labeled and imported.

  For disk media, the current volume label is read and if the volume identifier matches the identifier specified in the import request, the label is rewritten. This is done in case the volume is being re-imported with either a different block size or number of blocks, because these values are placed in the disk volume label. The Mover can then verify that the label matches the device configuration metadata. If the current volume identifier does not match the identifier specified in the import request, the import will fail.

PVL cannot connect to the Core Server

Diagnosis: The Core Server is not running or is not responding.

Resolution: Restart the Core Server. For additional information that may help with this problem, see *RPC Problems Section 1.1.1, “RPC Problems”*.

PVL cannot connect to a Mover

Diagnosis: The involved Mover is not running or is not responding.

Resolution: Restart the Mover in question. For additional information that may help with this problem, see *RPC Problems Section 1.1.1, “RPC Problems”*.

PVL cannot connect to the PVR

Diagnosis: The PVR is not running, or is not responding.

Resolution: Restart the PVR. For additional information that may help with this problem, see *RPC Problems Section 1.1.1, “RPC Problems”*.

PVL cannot connect to SSM

Diagnosis: The SSM System Manager is not running or is not responding.

Resolution: If the SSM windows are responding, check the status of SSM’s connection to the PVL in the Status field on the *Servers* window (see the *HPSS Management Guide*, Chapter 5: *HPSS Servers*) and reconnect (via Force Connect button) if necessary. The PVL will attempt to connect to SSM indefinitely. For additional information that may help with this problem, see *RPC Problems Section 1.1.1, “RPC Problems”*.

1.2.5. Physical Volume Repository (PVR) Problems

PVR is unable to communicate with a robot

Diagnosis: These errors are usually caused by configuration problems outside the control of HPSS.

Resolution: Verify that a non-HPSS process is able to talk to the robot. It is best to use the robot’s own control software. For the STK robot, try to mount and dismount a tape from the Automated Cartridge System Library Software (ACSLS) console. Additionally for STK, make sure the Storage Server Interface (SSI) process is running on the same workstation as the PVR. The SSI process must have been started before the PVR. For an ADIC AML robot, try to mount and dismount a tape using dasadmin commands. Note that the user must use the command "mt -f /dev/rmtxx rewoffl" to rewind and elevate the tape before issuing the dasadmin dismount command. For LTO libraries, shut down the PVR and try to talk to the robot through the tapeutil tool. Using "tapeutil open /dev/smc0" (or whatever the device-specific file is called) and issue mount, dismount, and move volume commands.

If the non-HPSS processes are able to mount and dismount tapes, check the PVR configuration. For LTO, if you cannot open the /dev/smc* file, another process may have control over the library. Remember that only one process can talk to the library at a time, so any other process with an open SMC special device file descriptor will have to be terminated. For STK robots, check that the packet version used by the PVR is the same as the packet version used by the SSI and ACSLS. Note that the packet version number is usually one less than the ACSLS software version number. Be sure that this number agrees with the HPSS environment variable ACSAPI_PACKET_VERSION. For ADIC

AML, check the configured Server Name and Client Name fields in the PVR configuration. Make sure that these are the same as in the OS/2 PC configuration file. Also, the user should monitor the OS/2 log file for additional information. The error messages are described in detail in the *EMASS Storage Systems AMU Reference Guide*.

PVR operational state is Major

Diagnosis 1: A cartridge has failed to mount.

Resolution 1: If a cartridge is supposed to be mounted by a human operator and the mount has been outstanding for about 20 minutes, the Operational State will be set to Major to signify that the mount is taking too long. If a cartridge is supposed to be mounted by a robot, but the robot is unable to mount the cartridge, a message will be logged indicating the problem and the Operational State will be set to Major.

Correct the problem indicated in the log and then force the mount to retry by setting the PVR's Administrative State to Repaired. If the mount fails again, the Operational State will remain set to Major. All mounts that have failed will be retried when the PVR is repaired. They will also be retried every 5 minutes. If any mount fails, the Operational State will be set to Major.

It is possible for the Operational State to be set to Major even if there are no mounts currently pending. If a mount fails due to a transient condition, the Operational State will be set to Major. If the automatic retry successfully mounts the cartridge later, the Operational State will remain set to Major. This allows the operator to identify and correct the transient condition. Set the Administrative State to Repaired to clear the Operational State.

Resolution 2: If a cartridge fails to mount due to unavailability, investigate the cause of error. In certain cases a cartridge will become unavailable due to hardware failure. Examples include a cartridge loaded in a drive which lost power, cartridge stuck in pass through port, etc. If the mount job was requested by the data migration process, try changing the state of the requested volume to a non-writable condition, e.g. RO or DOWN, using the *Core Server Tape Volume Information* window, then cancel the PVL job. If the source of the mount problem can be corrected, you may be able to return the tape to regular service using the *Core Server Tape Volume Information* window.

Diagnosis 2: Insufficient drives are available to honor a mount request.

Resolution: This problem may have occurred due to the injection of a cleaning cartridge into a drive. The PVL is responsible for maintaining the available drive count; however, the PVL has *no* ability to know when a cleaning cartridge is injected. The PVR is very persistent and the problem will correct itself usually within 5 minutes. It is necessary to notify the PVR of repair in order to reset the Operational State to **Normal**. The PVR will continue to recheck for an available drive at 5-minute intervals until the problem is resolved.

1.2.6. Gatekeeper (GK) Problems

The Core Server is not calling the Gatekeeper

Diagnosis 1: The Gatekeeper is not up.

Resolution: Restart the Gatekeeper in question. The Core Server will attempt to connect to this Gatekeeper the next time it is needed. If the site policy increased the types of requests being

monitored, then the Core Server will not find this out until one of the types of requests previously being monitored is issued. For example, if the Core Server was monitoring open requests and the site policy was changed to monitor open and create requests then the Core Server won't know about the change until it attempts to issue an open to the DOWN Gatekeeper. As a general rule, it is recommended that the Core Server be recycled whenever the GK site policy changes the types of requests to be monitored.

Diagnosis 2: The Gatekeeper is not configured into the Storage Subsystem.

Resolution: Configure the Gatekeeper into the Storage Subsystem corresponding to the Core Server. Recycle the Core Server.

Diagnosis 3: The site policy increased the types of requests being monitored.

Resolution: As a general rule, it is recommended that the Core Server be recycled whenever the GK site policy changes the types of requests to be monitored.

Diagnosis 4: The AUTHZACL table entry for the GK may not be set correctly.

Resolution: Fix the GK security object to contain the following ACL entry:

```
{user hpss_core rw---}
```

The wrong requests types are being monitored

Diagnosis: The types of requests being monitored have changed.

Resolution: Recycle the GK and the Core Server.

The Gatekeeper is not doing any gatekeeping

Diagnosis: The default gatekeeping policy is to do NO gatekeeping.

Resolution: Write the site customizable gatekeeping policy module. See the *HPSS Installation Guide* Sections 3.7.3 and 3.9.7. Also see the *HPSS Programmer's Reference*.

The SSM cannot contact the Gatekeeper

Diagnosis: The AUTHZACL table entry for the GK may not be set correctly.

Resolution: Fix the GK security object to contain the following ACL entry:

```
{user hpss_ssm rw-c}
```

The Gatekeeper won't start/load

Diagnosis 1: The shared libraries have been moved/deleted.

Resolution: Issue on Linux:

```
ldd /opt/hpss/bin/hpss_gk
```

or on AIX:

```
dump -H /opt/ hpss /bin/hpss_gk
```

to list the dynamic dependencies of the Gatekeeper dynamic executable. Check that the `libgksite.*` and `libacctsite.*` shared libraries are actually located in the pathname displayed by the **ldd** or **dump** command. If they differ, then rebuild the Gatekeeper (see the *HPSS Installation Guide*, Section 5.8.1: *Build the HPSS Base Source Tree* for more information on rebuilding HPSS).

Diagnosis 2: The shared libraries have the wrong permission.

Resolution: Verify that the Gatekeeper process has read permission for the libraries it loads (e.g. `libgksite.*`, `libacctsite.*`)

Diagnosis 3: The Site Policy Path Name in the Gatekeeper configuration is bad.

Resolution: The Site Policy Path Name is passed to the gk_site_Init() routine which is written by the site. If the site implements this routine to return an error (for example, because the site policy path name is invalid), then the Gatekeeper will crash.

Account Validation Fails to Initialize

Diagnosis 1: The Core Server terminates during startup complaining that it cannot initialize Account Validation.

Resolution: Examine the logged error code as well as any Account Validation errors logged recently. Make sure the Accounting Policy has been created and initialized properly. Make sure the Global Configuration metadata has been setup. Make sure the local cell id has been set up in the trusted cell table properly. If Account Validation is enabled, make sure at least one Gatekeeper has been defined and is marked executable.

Diagnosis 2: The Gatekeeper terminates during startup complaining that it cannot initialize Account Validation.

Resolution: Make sure an Accounting Policy has been defined. If you have written a site policy module, make sure it is working properly.

1.2.7. Mover Problems

Mover performs poorly

Diagnosis 1: A problem exists with the Mover internal buffer size.

Resolution: If the Mover buffer size is too small, the Mover will perform numerous separate requests when a single request could be made to perform the same input or output operation. If the Mover buffer size is too large, the Mover could reserve too much system virtual memory, requiring frequent paging of Mover and other process memory (which will also decrease performance) Also, if the buffer size is too large, transfers may be completed without the Mover receiving any benefit from double buffering. (For example, if the Mover buffer size is 4 MB but a majority of client requests are 4 MB or less, the Mover will complete the transfer using one buffer, thus not allowing any client and device I/O time to be overlapped.)

Diagnosis 2: A disk device is configured to use the block special file.

Resolution: If the device is configured to use the block special file, the data will be buffered by the operating system, which could cause additional overhead during read (primarily) and write operations. Also, data that the Mover believes has been written to disk may in fact only be stored in system memory, waiting to be flushed to disk. Change the device configuration to use the character special device.

Diagnosis 3: A disk device is not configured to use multiple Mover tasks.

Resolution: If the device is not configured to use multiple Mover tasks, the Mover will signal thread I/O requests for that device. This flag should always be set by HPSS for new default device configurations and is not settable by the user. Should you discover a disk device not configured to use multiple Mover tasks, contact your HPSS support representative.

Mover cannot be started

Diagnosis 1: The Mover could not bind to the TCP/IP port number specified in the Mover specific configuration file.

Resolution: Verify that the hostname specified in the Mover specific configuration file relates to a valid network interface for the machine on which the Mover is running, and that the port number specified is a valid port number and one that is not in use by another process (possibly another HPSS Mover that was previously started on the same machine).

Diagnosis 2: The Mover could not bind to a UNIX domain socket used for intra-Mover communication.

Resolution: The Mover uses a set of UNIX domain sockets that are placed in `/var/hpss/tmp` while the Mover is running. If a Mover was previously running under a different UNIX user ID and was not cleanly shut down, the sockets may be left in the file system, and the newly started Mover may not be able to remove them. If this is the case, a user with sufficient privilege must remove the socket files in `/var/hpss/tmp` before the Mover can be run by the second user. The socket file names all begin with the prefix **Mvr**.

Diagnosis 3: The Mover cannot start the TCP/IP request process.

Resolution: The Mover TCP/IP program pathname is contained in the Mover specific configuration file, and may be verified by examining that information.

Diagnosis 4: The Mover node **inetd** configuration is incorrect.

Resolution: This diagnosis is likely to be correct if the Parent Mover process (on the core server) generated an alarm message indicating that it cannot establish a connection to the remote node. To correct the problem, verify the `/etc/services` and `/etc/inetd.conf` configuration are correct (see the *HPSS Management Guide*, Section 5.2.8.2: *Additional Mover Configuration*). Also verify (typically via netstat) that there is a listen waiting on the appropriate TCP port.

Diagnosis 5: The Mover encryption key is out of sync between the two Mover nodes.

Resolution: In this case, the Mover should generate an alarm message indicating that there is an encryption key mismatch. To resolve the problem, verify that the encryption key file (referenced in

the `/etc/inetd.conf` file) on the mover node contains the same value as is configured in the Mover's type specific configuration.

Diagnosis 6: The clock skew between the core server node and the mover node (the two nodes that this Mover is executing across) is greater than the maximum allowable difference (currently 5 minutes).

Resolution: In this case, the Mover should generate an alarm message indicating that the clock skew is too great. To resolve the problem, one or both of the nodes' clocks must be adjusted so that they are within the allowable difference.

Mover cannot write a label to a tape

Diagnosis 1: The Mover does not have the required privilege to access the device.

Resolution: Verify that the tape device special file is defined such that the user under which the Mover is running is able to access the file for both reading and writing. If the device is a DD-2 tape device, the Mover must be run under the **root** user id to allow appropriate access to the device.

Diagnosis 2: The tape device is not configured to support reading and writing variable size blocks.

Resolution: Verify that the tape device is defined such that it will support variable size blocks. This involves defining the block size of the device to be zero. Consult the platform and device driver documentation on how to set the block size for the device.

Mover cannot read the label from a previously labeled tape

Diagnosis 1: The tape device is configured as being able to support using the **no delay** flag on open, but in fact the device driver does not support issuing tape operations if the device was opened using the **no delay** flag.

Resolution: Change the device configuration to turn off the **no delay** support flag.

Diagnosis 2: The tape device is not configured to support variable block sizes (either because the device was reconfigured or the tape was read on a device other than the one that was used to write the label).

Resolution: See the Resolution for Diagnosis 2 in *Mover cannot write a label to a tape the section called "Mover cannot write a label to a tape"*.

Tape positioning operations are performing poorly

Diagnosis 1: The tape device is not configured to support absolute positioning (fast locate).

Resolution: Change the device configuration to turn on the fast locate support flag if the device and driver interface support **fast locate**.

Diagnosis 2: The Mover was not built with the compilation flag to include code for the device specific device driver interface, which would allow absolute positioning (fast locate) to be used.

Resolution: Rebuild the Mover to include support for the specific device driver interface being used, and modify the device configuration to turn on the **fast locate** support flag (if necessary).

Network transfers are performing poorly

Diagnosis 1: Routing tables on the node on which the Mover is running are incorrect.

Resolution: Verify that the system routes defined are causing the Mover to use the expected network connectivity when communicating with a remote client.

Diagnosis 2: The networking options defined in the HPSS network option file (**HPSS.conf**) are not optimally set for the utilized networks.

Resolution: Verify the correctness of the network configuration file **HPSS.conf** on the mover machine for the utilized networks. See Appendix D of the *HPSS Installation Guide* for further details.

Mover cannot perform a LFT data transfer

Diagnosis 1: The Mover reports an access error while performing a LFT data transfer and logs an alarm message indicating that the local file could not be opened.

Resolution: Verify that the machines on which the Mover and the client are executing both have the file system that contains the specified file mounted locally.

Diagnosis 2: The Mover reports an access error while performing a LFT data transfer and logs an alarm message indicating that the specified path is not configured for LFT data transfer.

Resolution: Verify that the LFT configuration file contains a path that matches the base of the requested file path. See the *HPSS Management Guide*, Section 5.2.8.2: *Mover Configuration to Support Local File Transfer* for more details on configuring Local File Transfer.

Diagnosis 3: The Mover reports an access error trying while performing a LFT data transfer.

Resolution: Verify that the Mover is running as the ***root*** user. Because a Mover using LFT must read and write files with varying ownership and permission, it must be run as the ***root*** user.

Diagnosis 4: A Mover managing a tape device, on the same machine with a LFT Mover, reports a shared memory access error during migration and stage.

Resolution: Since a LFT Mover must run as the ***root*** user, then any other Mover on the same machine must also run as the ***root*** user. This is because shared memory is used for data transfer between two Movers on the same machine, and the shared memory segment is created with permissions that allow only user access. Configure the tape mover to run as root and restart it.

1.2.8. Logging Services Problems

Logging performance is sluggish

Diagnosis: A large number of messages are being generated.

Resolution: Change the Logging Policy to filter out unneeded messages. The recommended record types to filter out first are Trace and Request. If the problem persists, consideration can be given to filtering Debug messages. However, bear in mind that this will reduce the information available when troubleshooting issues. To set or modify Logging Policy, open the *Logging Policies* window and

select the logging policies for the affected servers. Modify the policies and reinitialize the Log Clients for the affected machines. The logging policy may also be modified by selecting the Log Policy tab from the *Basic Server Configuration* window. Refer to the *HPSS Management Guide*, Chapter 9: *Logging and Status* for additional details.

Log Daemon (or Log Client) will not start/restart

Diagnosis 1: A Log Daemon (or Log Client) may already be executing.

Resolution: If the process is already executing and must be recycled, terminate the existing process and attempt to restart.

Diagnosis 2: The group permissions for the Log Client and/or Log Daemon may not have sufficient permissions to access the log files.

Resolution: The Logging processes should be started from the same group as the Logging processes that originally created the files or the group ownership of the log files should be changed to match the Logging processes.

TABs and newlines in HPSS log messages converted to #011, #012 in syslog

Diagnosis: The default rsyslog configuration converts non-printable characters in its input into their octal representation preceded by a hash sign (#).

Resolution: To replace the "#nnn" expressions with spaces, set the following in the rsyslog configuration:

```
$EscapeControlCharactersOnReceive off
$template HPSS_Format,"%TIMESTAMP% %HOSTNAME %msg:::space-cc%\n"
...
user.notice                  /var/log/hpss;HPSS_Format
```

Note: After changing the rsyslog configuration, it will be necessary to "kill -HUP" or restart the rsyslog server.

1.2.9. Startup Daemon Problems

Cannot start a server

Diagnosis 1: The server may already be running. The Startup Daemon has determined that an identical copy of the target server is already running.

Resolution: Make sure that there are not two servers with the same descriptive name (this should not be possible). If you force the server to run anyway, you may damage the HPSS system, so stop the old server first.

Diagnosis 2: A lock file problem may exist.

Resolution: See *A problem exists with a Startup Daemon lock file the section called “A problem exists with a Startup Daemon lock file”*.

Diagnosis 3: The HPSS executable may not exist or may not be accessible.

Resolution: Make sure the path to the executable is specified correctly, that the executable exists, and that the UNIX user under which the server will be running has permission to access the executable.

Diagnosis 4: The UNIX user under which the server is configured to run may not exist. The Startup Daemon issues the "Cannot start server; no such UNIX user <userid>" error message. The SSM System Manager issues the "Startup of server 'XYZ' failed" error message.

Resolution: Make sure the server's user name exists in the `passwd` file on the computer where the server will be running.

Diagnosis 5: The Startup Daemon may not be running.

Resolution: The daemon must be started before HPSS servers can be brought up. To start the daemon, run the script **rc.hpss**.

Diagnosis 6: The Startup Daemon may not be responding to requests.

Resolution: Kill the daemon using the **kill -9** command and then restart it using the script **rc.hpss**. Do this only as a last resort because it causes the daemon to lose some of the information it has about which servers are running.

Cannot force halt a server

Note: These diagnoses apply only to stopping a server with the Force Halt button; none of them is an issue for the Shutdown button. Do not use the force halt button unless Shutdown has already been tried unsuccessfully.

Diagnosis 1: The Startup Daemon may not be running.

Resolution: To halt a server, SSM issues two requests: one to the specified server directing the server to halt immediately, and one to the Startup Daemon on the server's host directing the Startup Daemon to kill the server. Either request alone should be sufficient, but both are issued in case either fails. If SSM cannot communicate with the server, or if the server ignores the **halt** request, the only way the **halt** can succeed is if the Startup Daemon kills the server. In this case, if the Startup Daemon is not executing and communicating with SSM, the **halt** request will fail. To start the daemon, run the script **rc.hpss**.

Diagnosis 2: There may be a problem with a Startup Daemon lock file.

Resolution: See the discussion in *A problem exists with a Startup Daemon lock file the section called "A problem exists with a Startup Daemon lock file"*.

Diagnosis 3: The Startup Daemon may not be responding to requests.

Resolution: Kill the daemon using the **kill -9** command and then restart it using the script **rc.hpss**. Do this only as a last resort because it causes the daemon to lose some of the information it has about which servers are running.

A problem exists with a Startup Daemon lock file

Diagnosis 1: Lockfile name collision.

Resolution: On very rare occasions, two servers with different descriptive names will share the same lock file name. There are two ways this can happen.

The InitServer function, which is called by all HPSS servers when they start running, creates a lockfile on the server's host in the `/var/hpss/tmp` directory. The lockfile name is of the form `hpssd.NNNN.AAAA` where NNNN is a hexadecimal number and AAAA is the descriptive name of the server. The lockfile contains the process ID of the server. The Startup Daemon on each host uses the lockfile to determine whether the server is currently running.

If the server's descriptive name contains embedded spaces or other characters not valid for file names, the Startup Daemon will substitute underscores for the problem characters in the lockfile name. It is therefore possible for two descriptive names which differ only in these spaces or special characters to map to the same lockfile name.

A second way two descriptive names can map to the same lockfile name is if their first 22 characters match, as the Startup Daemon uses only the first 22 characters of the descriptive name to build the lockfile.

To fix the problem, change the descriptive name of one of the servers.

Diagnosis 2: The server does not have permission to write to the lock file.

If the server was previously run under a different UNIX UID, it is possible that the lock file already exists but the server does not have access permission to overwrite it. Check the owner and permissions on the file and the UNIX UID for the server in the server configuration. If you are certain the server is not running on that host, remove the lockfile and retry starting the server.

Diagnosis 3: The lock file may be empty.

Resolution: Delete the file. The name of the file that is causing the problem can usually be found in the HPSS log. You can also use the **ls -l** command to look for empty files in `/var/hpss/tmp`.

Diagnosis 4: The lock file may contain invalid information.

Resolution: To better understand the situation, use the **cat** command to view the contents of the lock file. It should look similar to this:

```
DescName: Log Daemon
LockNum: 0
PID: 20016
```

The descriptive name must match the name of the file (in this example, `/var/hpss/tmp/hpssd.4302.Log_Daemon`.) If the names do not match, change one of the servers' descriptive names to avoid a name collision. To avoid further trouble, delete the lock file.

1.2.10. SSM Problems

SSM includes three programs: the SSM System Manager, the SSM graphical user interface program hpssgui, and the SSM command line interface hpssadm. Problems with all three programs and the interactions between them are covered in this section.

The **hpssgui** and **hpssadm** programs are here jointly referred to as "ssmuser" programs. The human system administrator or operator using SSM is referred to as an "SSM user".

When diagnosing SSM problems, it is very helpful to run the **hpssgui** and **hpssadm** programs in debug mode and to keep a session log. See the **hpssgui** and **hpssadm** man pages for details.

There are four scripts for starting **hpssadm** and **hpssgui**, described in the table below:

Table 1.1. hpssgui and hpssadm Startup Scripts

Script	Language	UNIX	Windows
hpssadm.pl	Perl	yes	if Perl installed
hpssgui.pl	Perl	yes	if Perl installed
hpssadm.vbs	Visual Basic Script	no	yes
hpssgui.vbs	Visual Basic Script	no	yes

Throughout this documentation, these scripts and the programs they start are referred to collectively as "hpssadm and hpssgui".

The System Manager won’t start

Diagnosis 1: HPSS or one of its prerequisites is not installed, is not accessible, or is not operational.

Resolution: Make certain HPSS and all of its required infrastructure such as DB2 are properly installed. Make certain DB2 is executing. If LDAP is being used, make certain the LDAP server is running. If Kerberos is being used, make certain the Kerberos server is running.

Diagnosis 2: There is already an instantiation of the System Manager running.

Resolution: There must be one and only one System Manager in execution at any one time per HPSS installation. Note that the **rc.hpss** script will refuse to start the System Manager if it finds a copy already running on the same host.

The ps command can be used on each host to determine whether there are more copies of the System Manager executing than intended.

Diagnosis 3: HPSS is installed in a non-standard location.

Resolution: If HPSS is installed in a non-standard location, the **rc.hpss** script may not be able to find the proper configuration or binary files. The **rc.hpss** script will honor several environment variables to override the default locations.

Most of these variables can be defined in the HPSS environment override file, whose default location is `/var/hpss/etc/env.conf`.

One of the most important variables to define in the override file when using non-standard locations is HPSS_ROOT, which is the pathname of the root of the tree where HPSS is installed. The default is `/opt/hpss`. See the *HPSS Installation Guide*, Section 5.6: *Define HPSS Environment Variables* in for other important variables.

If the `env.conf` file itself is in a non-standard location, that location must first be defined in the environment (e.g., by setting the variable in the shell) before executing **rc.hpss**. The location can be changed in several ways:

1. Modify the environment variable HPSS_ENV_CONF. This is the full path name of the environment override file, default `/var/hpss/etc/env.conf`.

2. Modify the environment variable HPSS_PATH_ETC, the path name of the HPSS etc directory. The default is `/var/hpss/etc`. Then create the `env.conf` file under the alternate HPSS_PATH_ETC directory.

3. Modify the environment variable HPSS_PATH_VAR, the path name of the HPSS var directory. The default is `/var/hpss`. Then create the `etc` directory under the alternate HPSS_PATH_VAR directory and place the `env.conf` file under the `etc` directory.

Diagnosis 4: HPSS was built in one location and executed from another.

Resolution: Set both the **LIBPATH** and **LD_LIBRARY_PATH** environment variables to point to the correct run time location of the HPSS libraries.

You can also set **RUNLIBS_PATH** in the `Makefile.macros` file to point to the correct run time location of the libraries. However, if you put copies of the system on multiple hosts (for example, one on a production host and one on a test host), you might not use the same location on both hosts. In this case, use **LIBPATH** and **LD_LIBRARY_PATH** to set the location on the host which differs from the **RUNLIBS_PATH** value.

Note that on some operating systems, your **LIBPATH** and **LD_LIBRARY_PATH** settings are removed from your shell's environment if you su, so you will have to reset them after the su before executing **rc.hpss**.

Diagnosis 5: Multiple hpss test systems are configured on one host.

Resolution: It is never recommended to install or operate multiple hpss systems on a single host in production. However, due to resource constraints or other considerations, some sites might install multiple test systems on a single host.

Make certain that each hpss test installation is using a different var area. The default HPSS var area is `/var/hpss`; this can be customized for each test system with the HPSS_PATH_VAR variable.

Make certain that each hpss test installation is using a different database. This is customized by the HPSS_GLOBAL_DB_NAME and HPSS_SUBSYS_DB_NAME environment variables.

Make certain each hpss test installation is using a separate RPC program number range. This is customized by the HPSS_RPC_PROG_NUM_RANGE environment variable.

Diagnosis 6: The RPC port is still busy from a previous execution of the System Manager.

Example error message:

```
Starting HPSS System Manager...
Waiting up to 60 seconds for HPSS System Manager to start
$ __get_myaddress: ioctl: Bad file descriptor
```

Resolution: This is an error message from the RPC layer. The port needed for the System Manager has not been released from the previous usage, even though the old process has exited. Wait a few seconds and retry starting the System Manager.

The hpssgui or hpssadm program won't start

Diagnosis 1: Java is not installed or is not accessible.

Resolution: This is the likely diagnosis if the **hpssgui** or **hpssadm** startup script generated a message similar to: "java: not found."

Install the proper version of Java. If Java is already installed, make sure the path to the executable in the SSM configuration file (`ssm.conf` by default) is correct.

Diagnosis 2: Java is installed, but it is the wrong version.

Resolution: The **hpssgui** and **hpssadm** programs require Java 6 or greater.

Diagnosis 3: The **hpssgui** or **hpssadm** startup script is not installed or is the wrong version.

Resolution: Make certain the hpssgui and hpssadm startup scripts are installed in the correct location, that the user has permission to read and execute them, and that the user's path is set to reach them. These files are normally packaged for distribution to the ssmuser host by the hpssuser utility.

Diagnosis 4: The `hpss.jar` file is not installed or is an outdated version.

Resolution: Make certain the current version of the `hpss.jar` file is installed on the ssmuser host and that the user is looking for it in the right location. This file is normally packaged for distribution to the ssmuser host by the **hpssuser** utility.

Diagnosis 5: A missing or invalid `login.conf` is referenced in the SSM configuration file.

Resolution: A valid `login.conf` file must exist and be accessible on each host from which the **hpssgui** or **hpssadm** is executed. By default, this file is included in the `hpss.jar` file and should not need to be customized by the site. If the -C option is being used to override the default please make sure that the `login.conf` file being referenced is configured correctly.

See the `/opt/hpss/config/templates/login.conf.template` file for details.

See the *HPSS Management Guide*, Section 3.3.3.1: *login.conf* for more details.

Diagnosis 6: The `krb5.conf` file is not installed, is not configured properly, or was not specified with the proper option of the **hpssgui** or **hpssadm** script (applies only if using Kerberos authentication).

Resolution: A valid `krb5.conf` file for the Kerberos realm of the SSM System Manager must exist and be accessible on each host from which the **hpssgui** or **hpssadm** programs are executed with Kerberos authentication. This file is normally created and packaged for distribution to the ssmuser host by the hpssuser utility.

The user must specify the correct `krb5.conf` file on the command line of the **hpssgui** or **hpssadm** startup script with the -k option, in the environment with the variable KRB5_CONF, or in the SSM configuration file.

Make certain the `krb5.conf` file exists and that it specifies the same Kerberos realm as that used by the SSM System Manager. If the default realm is not specified in the file, a possible error message from the **hpssgui** or **hpssadm** is "Authentication failed". The realm is specified in the file by the

"default_realm" definition in the libdefaults stanza, by the realms stanza, and by the domain_realm stanza. For example, this `krb5.conf` file specifies its default realm as ACME.COM:

```
[libdefaults]
   default_realm = ACME.COM

[realms]
   ACME.COM = {
      kdc = acme.com:88
      admin_server = acme.com:749
   }

[domain_realm]
   acme.com = ACME.COM
```

It is also recommended that the `krb5.conf` file not list triple DES encryption, or if it does, that it not list it first. This does not affect **hpssgui** or **hpssadm** but may affect the **kinit** command. It is convenient to use the same `krb5.conf` file and the same keytab for both SSM and **kinit**. The **kinit** command compares whatever encryption type is in the keytab against the first encryption type listed in the `krb5.conf` file, and if it doesn't match, the **kinit** fails, even if the matching type is listed second in the `krb.conf` file.

So, if the SSM user has a keytab for **hpssadm**, it should use only regular DES encryption. If he uses that same keytab for **kinit**, and the `krb5.conf` file lists regular DES encryption but also lists triple DES encryption first, the **kinit** will fail.

The encryption types are listed in the `krb5.conf` file for the "default_ktk_enctypes" and the "default_tgs_enctypes"; for example:

```
[libdefaults]
   default_tkt_enctypes = des3-hmac-sha1 des-cbc-crc
   default_tgs_enctypes = des3-hmac-sha1 des-cbc-crc
```

In this example, triple DES is listed first. This will cause **kinit** to fail if the keytab uses regular DES encryption. To solve this problem, list the triple DES entry second:

```
[libdefaults]
   default_tkt_enctypes = des-cbc-crc des3-hmac-sha1
   default_tgs_enctypes = des-cbc-crc des3-hmac-sha1
```

or eliminate it altogether:

```
[libdefaults]
   default_tkt_enctypes = des-cbc-crc
   default_tgs_enctypes = des-cbc-crc
```

Diagnosis 7: The ssm configuration file is not installed, is not configured properly, or was not specified with the proper option of the **hpssgui** or **hpssadm** script.

Resolution: A valid ssm configuration file must exist and be accessible on each host from which the **hpssgui** or **hpssadm** programs are executed. The file must be configured correctly for the HPSS system to which the ssmuser needs to connect.

This file is normally created and packaged for distribution to the ssmuser host by the **mkhpss** utility. The default name for the file is `ssm.conf`. The default location for the file on AIX and Linux hosts is `/var/hpss/ssm`. There is no default location on Windows.

The user must specify the correct SSM configuration file on the command line of the **hpssgui** or **hpssadm** startup script with the -m option.

Diagnosis 8: The UNIX realm name is not specified (applies only if using UNIX authentication).

Resolution: When using UNIX authentication, specify the UNIX realm in the `ssm.conf` file with the HPSS_SSM_UNIX_REALM variable or on the command line with the -u option of the **hpssgui** or **hpssadm** startup script.

Diagnosis 9: The security mechanism was not specified.

Example error message:

```
      null security mechanism
```

Resolution: Specify the security mechanism in the SSM configuration file with the HPSS_SSM_SEC_MECH variable or on the command line with the -s option of the **hpssgui** or **hpssadm** startup script. For the **hpssadm**, also specify a valid keytab with the -a option of the **hpssadm** startup script.

Diagnosis 10: The user's keytab file does not exist or is not correct.

Resolution: A valid keytab for the user must exist and be accessible on each host from which he executes the **hpssadm** user program. The **hpssuser** utility is normally used to create this keytab and to package it for distribution to the ssmuser machine. Keytabs for use with Kerberos authentication can also be created manually with the **hpss_krb5_keytab** utility. Keytabs for use with UNIX authentication can also be created manually with the **hpss_unix_keytab** utility.

Make certain the keytab exists, contains an entry for the user, and contains an encrypted version of the user's password.

Make certain the correct path to the keytab is specified for the user with the -a option to the **hpssadm** startup script.

When using Kerberos authentication:

- Make certain the keytab was created on a machine in the same Kerberos realm as the System Manager host.
- Make certain the keytab was not created with the **kadmin** command, which randomizes the password.
- Make certain the keytab does not use triple DES encryption.
- To examine the keytab, use the **ktutil** utility, which is in the Kerberos `sbin` directory. Use its "read_kt" command to read in the keytab and its "list" command to display the entries. The "-e" option of the "list" command will display the encryption type.

  For example, use these commands to invoke the **ktutil** command, read in the keytab file `keytab.joe`, and list its entries with their encryption types:

  ```
  $ ktutil
  ktutil: read_kt keytab.joe
  ```

```
ktutil: list -e
```

The output from this command might be something like:

```
slot KVNO Principal
---- ---- ---------------------------------------------------
   1    2 joe@ACME.COM (Triple DES cbc mode with HMAC/sha1)
   2    2 joe@ACME.COM (DES cbc mode with CRC-32)
```

In this example, the keytab lists two entries for user joe in Kerberos realm ACME.COM. The entry in slot 1 was created with triple DES encryption and will not work with hpssadm on all platforms. The entry in slot 2 was created with regular DES encryption and will work on Linux, Windows, or AIX.

- If the keytab is incorrect, recreate it on a machine in the proper Kerberos realm using the **hpssuser** or **hpss_krb5_keytab** utility.

When using UNIX authentication:

- Make certain the keytab was created on the machine on which the SSM System Manager executes. The encrypted password in the keytab will be evaluated against the encrypted password in the password file on that machine and must match it.
- Make certain the keytab was not created with the -r option of the **hpss_unix_keytab** utility. This places a random password into the keytab file.
- Make certain the keytab was not created with the -p option of the **hpss_unix_keytab** utility. This option is used to specify a password on the command line. **hpss_unix_keytab** encrypts this password using a different salt than what was used in the password file, so that the result will not match.
- To examine the keytab, use the list option of the **hpss_unix_keytab** utility.
- If the keytab is incorrect, recreate it on the same machine where the SSM System Manager executes using **hpssuser** or **hpss_unix_keytab**.

See the *HPSS Management Guide*, Section 3.3.2: *Creating the SSM User Accounts*.

Diagnosis 11: The client can not get login credentials (Kerberos).

Example error message:

```
21:45:44 07-Feb-2006: Error: SSMUser.init.password: Can not
get login credentials debbiem
21:45:44 07-Feb-2006: Error: HPSS Login: Can not get login credentials
```

Resolution: Verify that the user is able to kinit and verify that the KDC port (88) is open to the client. Following is an example of how to issue a **kinit** on a Microsoft Windows client using java's Kinit:

```
$ java -Djava.security.krb5.conf=\path\to\krb5.conf
sun.security.krb5.internal.tools.Kinit <username>
```

Resolution: Verify that there is no clock skew between the client machine and KDC machine; they need to be within five minutes.

The hpssgui or hpssadm cannot connect to the System Manager

Diagnosis 1: See *The hpssgui or hpssadm program won't start the section called "The hpssgui or hpssadm program won't start"*.

Resolution: Under some conditions, the **hpssgui** or **hpssadm** will be able to start despite the issues listed in Section *The hpssgui or hpssadm program won't start the section called "The hpssgui or hpssadm program won't start"*, but it will not be able to connect to the System Manager. Check for those problems first.

Diagnosis 2: The user does not have privileges to talk to the System Manager.

Resolution: There are two levels of privilege for SSM users: admin and operator. The privilege level is determined by the ACL (access control list) granted to the user in the AUTHZACL table in the database. Every SSM user must have a valid entry in this table. If these entries do not exist or are incorrect, the user will not be allowed to connect to the System Manager.

These entries in the AUTHZACL table are normally added by the **hpssuser** program (see the *HPSS Management Guide*, Section 3.3.2: *Creating the SSM User Accounts*) when the user HPSS account is created.

Admin users should have all privileges: read, write, execute, control, insert, delete, and test (rwxcidt). Operators should have only read, control, and test (rct). Only these sets of permissions are supported. Other sets will be treated as no permission at all.

To verify or correct the user's privileges, use the **hpss_server_acl** program (see the *HPSS Management Guide*, Section 3.3.2.2: *SSM User Authorization*). For example, to display all users who have ACL entries for accessing SSM, use:

```
$ /opt/hpss/bin/hpss_server_acl
hsa> acl -t SSM -T ssmclient
hsa> show
```

The output from this command should be something like:

```
perms - type - ID (name) - realm ID (realm)
==========================================
rwxcidt - user - 106 (hpss) - 180021 (HPSS.ACME.COM)
rwxcidt - user - 4543 (joe) - 180021 (HPSS.ACME.COM)
r--c--t - user - 60003 (fred) - 180021 (HPSS.ACME.COM)
r--c--t - user - 61001 (mary) - 180021 (HPSS.ACME.COM)

------t - any_other
```

In this example, users hpss and joe have admin privileges. Users fred and mary have operator privileges.

Use the hpss_server_acl commands "del" and "add" to correct invalid entries. Type "help" from the hpss_server_acl prompt for assistance with command syntax.

See the *HPSS Management Guide*, Section 2.2: *HPSS Server Security ACLs* for more information on security ACLs.

Diagnosis 3: The **hpssgui** or **hpssadm** startup script is using the wrong RPC program number for the System Manager.

Resolution: This diagnosis should be suspected if the System Manager's server configuration has been modified recently, especially if it has been moved to a new host. In the process, it may have been assigned a new RPC program number.

Use the **rpcinfo** program to determine the System Manager's program number. First, shutdown all HPSS servers. Then use **rpcinfo** to verify that all HPSS programs have deregistered with portmapper.

```
% rpcinfo -p
```

Remove any portmapper registrations that were left behind. For example,

```
% rpcinfo -d 536870914 1
```

Now start just the System Manager and run **rpcinfo** to see which program number is assigned to it.

```
% rc.hpss -m start
% rpcinfo -p
program vers proto port

 ...
536870928 1 tcp 36369 hpss_ssm
```

Once the correct program number is known, it can be recorded in file `/etc/rpc` so that the program name appears along with the program number as shown above. An example line to be added to `/etc/rpc` might be:

```
hpss_ssm 536870913
```

Of course, you can use a different name if you like, and the program number will have to match the one your portmapper has assigned to your System Manager.

Diagnosis 4: The **hpssgui** or **hpssadm** is trying to use UNIX authentication, but the System Manager does not support it.

Resolution: Check and correct the configuration of the SSM System Manager using an **hpssgui** client with Kerberos authentication. From the Configure menu on the *Health and Status* window, select Servers to bring up the *Servers* window. Select the SSM System Manager from the list and push the Configure button to bring up the *SSM System Manager Configuration* window.

On the Interface Controls tab, make sure the UNIX box is checked under Authentication Mechanisms for the Administrative Client Interface.

On the Security Controls tab, make sure one of the Authentication Service Configuration entries defines its Mechanism as UNIX and its Authenticator Type as None.

Diagnosis 5: Firewall is interfering.

Resolution: If the network administrator will allow a firewall exception, specify the port number that the SSM System Manager is using to accept incoming connections using the -n option of the **hpssgui** or **hpssadm** startup scripts. See the **hpssgui** and **hpssadm** man pages for details. It is recommended

that you set the HPSS_SSM_SERVER_LISTEN_PORT environment variable to the port that the SSM System Manager server is listening on for client RPCs; the default value is 0 which means that the port will be chosen by the portmapper. The SSM System Manager will need to be restarted after changing the setting of this environment variable and you will need to open this port in your firewall. If you don't specify the HPSS_SSM_SERVER_LISTEN_PORT, then access to port 111 is needed to use the RPC portmapper to find the SSM System Manager. Additionally, access to port 88 is needed if using Kerberos authentication.

If the network administrator will not grant a firewall exception, one way for the ssmuser programs to access the System Manager across a firewall is via a VPN connection. See the -p and -h options of the **hpssgui** or **hpssadm** man pages.

A third alternative is to use ssh tunneling through the firewall. See the instructions for tunneling on the **hpssgui** man page.

The simplest solution for the **hpssadm** is to run the **hpssadm** on the same host as the System Manager and use X windows to display the output back to the user's client machine. This is not a valid solution for **hpssgui** as it introduces a severe performance degradation. It is, however, the easiest solution for the **hpssadm** program, because for **hpssadm** there is no performance problem in executing on the same machine as the System Manager and no advantage in executing on a separate host.

See the *HPSS Management Guide*, Section 3.3.6: *Using SSM Through a Firewall* for more information.

Diagnosis 6: The System Manager is running on a host that has multiple network interfaces, host names and IP addresses.

Resolution: Determine the host name and IP address of the interface that the System Manager is actually listening on. Make sure that the client is specifying the correct host name or IP address when trying to connect to the System Manager. See the **hpssgui** and/or **hpssadm** man page for more information on how to specify the System Manager host name.

Diagnosis 7: Clock skew. The clock on the host where the System Manager is running is more than five minutes different from the clock on the host where the **hpssgui** or **hpssadm** program is running.

Example error message:

```
14:11:30 20-Jul-2005: Error: SSMUser.init.password: Can not get
    login credentials joe
14:11:30 20-Jul-2005: Error: HPSS Login: Can not get login
    credentials
14:11:30 20-Jul-2005: Debug: SSMUser.init.password: Can not get
    login credentials joe
Exception: Failure during login: Pre-authentication information
    was invalid (24) - Preauthentication failed
hpss.ssm.mobjects.RPCException: Failure during login:
    Pre-authentication information was invalid (24) -
    Preauthentication failed
        at hpss.ssm.mobjects.RPCLoginContext.init
            (RPCLoginContext.java:1125)
     at hpss.ssm.ssmuser.SSMUser.init(SSMUser.java:1077)
     at hpss.ssm.ssmuser.hpssgui.SSMLoginWindow$1.run(
                 SSMLoginWindow.java:473)
     at java.lang.Thread.run(Unknown Source)
```

Resolution: Reset the system clocks on one or both machines so they are synchronized. To manage time synchronization issues and prevent the recurrence of the problem, configure NTP, the Network Time Protocol, on each host.

Diagnosis 8: HPSS_AUTHENTICATOR entry is missing from the client configuration file.

Resolution: Add an HPSS_AUTHENTICATOR entry to the appropriate client configuration file specifying the path to the user's keytab file. Only **hpssadm** uses this configuration option, so this diagnosis and resolution will only be effective for **hpssadm**.

Diagnosis 9: The client is unable to establish multiple connections to the System Manager. The client will report that it is "Logging in…" and the login will not complete.

Resolution: Start client with the following command line option:

```
      --property "-Dhpss.ssm.SMConnections=1"
```

The default value for hpss.ssm.SMConnections is 2 and the maximum value is 5.

Diagnosis 10: The System Manager is using the same RPC program number as another application.

Resolution: This diagnosis should be suspected if a new server configuration was added manually. This diagnosis should also be suspected if the System Manager's server configuration has been modified recently, especially if it has been moved to a new host. In the process, it may have been assigned a new RPC program number.

Example error message from the SSM client's session log:

```
11:38:26 05-Oct-2006: Error: SSMUser.init.password: Can't
create RPC interface object.: 134.9.4.12:[536870913,1]
Reason: -10032 'Server returned RPC error'
11:38:26 05-Oct-2006: Error: HPSS Login: Could not complete
the call to the System Manager
```

And example error message from the HPSS error log:

```
Call to hpss_RPCOpenConnection to open an RPC connection to
System Manager failed: GetServiceName: can't get service
name: No such interface
```

Follow the procedure outlined above in Diagnosis 3 using the **rpcinfo** tool and/or use the unsupported **load_server_config** tool to determine the program number for each HPSS server verifying that no two servers are using the same program number.

Performance of the hpssgui is sluggish

Diagnosis 1: The **hpssgui** is being executed on a remote host and displayed back to the user's desktop using X.

Resolution: This is not the recommended configuration. Install the **hpssgui** on the user's desktop and execute it from there.

Diagnosis 2: The **hpssgui** polling rate is set inappropriately.

Resolution: Modify the refresh rates by using the following options on the **hpssgui** command line.

-M "MO refresh rate"	number of seconds between refreshes of Managed Objects.
-L "List refresh rate"	number of seconds between refreshes of lists.
-W "Wait time"	number of seconds to wait for a new object or list.

See the **hpssgui** and **hpssadm** man page for more details.

Also, see the *HPSS Management Guide*, Section 3.1.2: *Tuning the System Manager RPC Thread Pool and Request Pool Sizes* for information on tuning the System Manager's RPC thread pool and request queue sizes.

The hpssgui user windows aren't getting filled in

Diagnosis: The ssh tunnel is not forwarding X11 connections.

Resolution: Verify your X11 connections and ssh tunneling syntax:

- Windows users: remember to enable tunneling for X11 connections by running something like X-win32 or by configuring your SSH application [Edit->Settings->Tunneling->Check Tunnel X11 connections]. If using an application such as Cygwin/X, then you probably will have to use the "ssh -Y" option rather than "ssh -X" to properly enable X11 forwarding.
- Mac users: For users of Mac OS 10.4 and above, be sure you're using the "ssh -Y" option rather than "ssh -X" to enable X11 forwarding. If a user has used "ssh -X" then the HPSS Login screen comes up as a gray box which doesn't fill in.
- Later versions of SSH have a different X11 tunneling procedure. To get X11 to work between SSH clients and servers of different versions, you may need to use the "-Y" option, otherwise you may see odd behavior.

The hpssgui user cannot open windows, push buttons, or update fields

Diagnosis: The user does not have sufficient privileges.

Resolution: There are two levels of privilege for SSM users: admin and operator. Operator users are not allowed to open all SSM windows nor perform all operations. Many windows are view-only for operators.

Check the user's privilege level from the User Authority field of the *User Session Information Window*. See the *HPSS Management Guide*, Section 3.9.4.2: *User Session Information Window* for information on this window.

If the privilege level is wrong, correct it in the AUTHZACL table. See *The hpssgui or hpssadm program cannot connect to the System Manager the section called "The hpssgui or hpssadm cannot connect to the System Manager"* for more details.

The hpssadm user cannot update fields or modify configurations

Diagnosis: The user does not have sufficient privileges.

Resolution: There are two levels of privilege for SSM users: admin and operator. Operator users are not allowed to perform all operations. Many structures are view-only for operators.

Check the user's privilege level from the User Authority field of the SSM user session structure. Use the "ssm info -session" command from hpssadm to display this structure.

If the privilege level is wrong, correct it in the AUTHZACL table. See *The hpssgui or hpssadm program cannot connect to the System Manager the section called "The hpssgui or hpssadm cannot connect to the System Manager"* for more details.

The hpssgui or hpssadm cannot create new server configurations

Diagnosis 1: The user does not have sufficient privileges.

Resolution: See *The hpssgui user cannot open windows, push buttons, or update fields* or *The hpssadm user cannot update fields or modify configurations the section called "The hpssadm user cannot update fields or modify configurations"*.

Diagnosis 2: A principal under which one or more of the servers must run does not exist.

Resolution: Create all the HPSS required principals in the Kerberos registry if using Kerberos authentication or in the UNIX password file if using UNIX authentication. This is normally done by **mkhpss** for new sites or by the conversion utilities for upgrading sites.

Note that the missing principal will not necessarily be the principal required for the new server for which the creation attempt failed. When any new server creation is attempted, the HPSS metadata library performs a sanity check to make certain all the principals have been created on the system. So, for example, if an attempt is made to create a new PVR server, but the hpssgk principal does not exist on the system, the creation will fail, even though the new PVR configuration does not need the hpssgk principal.

Note also that if a site uses non-default values for the principals for any server type, the corresponding environment variables must be defined in the HPSS env.conf file. For example, the HPSS_PRINCIPAL_GK environment variable is used to define the default principal used by the Gatekeeper server. The HPSS default principal environment variables are defined in `hpss_env_defs.h`.

hpssgui or hpssadm issues Java FileSystem Preference errors

Diagnosis: The Java preferences directory does not exist and the SSM user does not have permission to create it.

Example error 1:

```
Mar 1, 2005 4:02:33 PM
java.util.prefs.FileSystemPreferences$3 run
WARNING: Could not create system preferences directory.
System preferences are unusable.
Mar 1, 2005 4:04:47 PM java.util.prefs.FileSystemPreferences
checkLockFile0ErrorCode
WARNING: Could not lock System prefs. Unix error code
1109721886.
```

Example error 2:

```
java.util.prefs.FileSystemPreferences
checkLockFile0ErrorCode
WARNING: Could not lock System prefs.Unix error code
1221091336.
Apr 22, 2004 9:34:08 AM
java.util.prefs.FileSystemPreferences syncWorld
WARNING: Couldn't flush system prefs:
        java.util.prefs.BackingStoreException:
Couldn't get file lock.
```

Resolution: This is a known JDK 1.4 bug. The standard HPSS **hpssgui** and **hpssadm** startup scripts work around this problem so the problem should not occur unless a locally modified version of these scripts is used.

Java attempts to create the hidden directories:

- `.java`
- `.java/.systemPrefs`
- `.java/.userPrefs.`

in the system area at Java install time. On most UNIX systems, this means the `/etc` directory, which is normally writable only by root. If Java is installed by a non-root user, the creation of these directories will fail. In that case, The Java VM tries to create the directories at run time when any Java application is executed, but if the application is not being run by root, this, too, will fail. The application will be allowed to execute, but warning messages similar to those above will be issued over and over.

The standard **hpssgui** and **hpssadm** startup scripts work around this problem by redefining the java.util.prefs.systemRoot variable (which defaults to `/etc/.java/.systemPrefs`) to an area in the user's home directory, `${HOME}/.java/.systemPrefs`, and by creating this directory and the `${HOME}/.java/.userPrefs` directory if they do not already exist. Verify that the SSM user has access to creating these directories.

Another way around this problem is to run any Java application as the root user.

For more information see the Java Bug Parade for bug 4838770:

http://developer.java.sun.com/developer/bugParade/bugs/4838770.html

Columns or rows are missing from SSM lists

Diagnosis: Preference settings are filtering out the items.

Resolution: Check the Column View menu on the list window and be certain all the desired columns are selected.

Press the Preferences "Edit" button on the list window to bring up the preferences window for that list. Be certain that the filters are set as desired.

SSM cannot start HPSS servers

SSM must work with the Startup Daemon to start servers. See *Cannot start a server the section called "Cannot start a server"* for information on Startup Daemon problems related to server startup.

SSM cannot stop HPSS servers

Diagnosis 1: The target server may not be able to shut down gracefully.

Resolution: A server may have received a request to shut down, but cannot complete the request for some reason. To fix the problem, use the **force halt** button to force the server to shut down. This should only be done as a last resort when it is clear that the server will never complete a graceful shutdown. Some servers, such as the Core Server, may normally take as long as two minutes to shutdown. Please be sure to allow enough time for the normal shutdown to take place before using force halt.

Diagnosis 2: Force halt doesn't work.

Resolution: SSM works with the Startup Daemon for the force halt operation. See *Cannot force halt a server the section called "Cannot force halt a server"* for information on Startup Daemon problems related to force halt.

Communications problems exist between the System Manager and other HPSS servers

Diagnosis 1: Permissions are not set properly in the AUTHZACL table.

Resolution: Check to see that SSM and the target server configuration parameters are defined correctly and that the SSM principal has control permission in the AUTHZACL table for the target server.

See the *HPSS Management Guide*, Section 2.2: *HPSS Server Security ACLs* for detailed information on Access Control Lists (ACLs).

See *The hpssgui or hpssadm cannot connect to the System Manager the section called "The hpssgui or hpssadm cannot connect to the System Manager"* for an example of using the **hpss_server_acl** command.

Diagnosis 2: Multiple configurations for the SSM System Manager.

Resolution: If the basic server configuration file contains more than one entry for the SSM System Manager, other servers may not be able to find the System Manager and send it any notifications.

There should be exactly one entry for the SSM in the server list. Use the HPSS *Servers* window to check that there is only one executable server of type SSMSM. Also check that the descriptive name field defined in the System Manager's basic configuration matches the **HPSS_DESC_SSMSM**

environmental variable used by the **rc.hpss** script. By default, this variable is "SSM System Manager". The value can be overridden in the HPSS environment override file, `/var/hpss/etc/env.conf`.

Diagnosis 3: Stale endpoints

Resolution: Normally, HPSS servers remove their portmapper endpoints when they shut down. In some cases, stale endpoints may be left behind. To determine which RPC endpoints are being maintained by the portmapper, use the following command:

```
rpcinfo -p
```

This will display program numbers, program versions, the protocol supported by the endpoint, and the port the program is listening on. HPSS servers are typically configured to use a specific range of program numbers (by default, `0x20000000` - `0x20000200`, i.e., 536870912 - 536871424 decimal). This range can be defined in environment variable HPSS_RPC_PROG_NUM_RANGE by editing `env.conf`.

If the HPSS program numbers have their default values, the following command pipeline would remove all HPSS endpoints:

```
/usr/sbin/rpcinfo -p | grep "^ 5368" | cut -c0-10 \
    | sed -e "s/^/rpcinfo -d/" | sed -e "s/$/ 1/" | sh
```

Before running such a command, you should ensure that the HPSS servers have been shutdown. Otherwise, the HPSS servers left running will not be reachable since the portmapper will no longer know about them.

Names can be assigned to portmapper-managed programs by editing the file `/etc/rpc`. The name to appear in rpcinfo output must precede the program number and may not contain spaces.

Repack or Reclaim do not work from SSM

Diagnosis: Path names and/or environment variables are incorrectly set.

Resolution: Some HPSS functions, including repack and reclaim, are provided by command line utilities that can be run either directly from the shell, from a script or cron job, or from SSM. SSM determines the path name for these executables from hard-coded defaults. To override these defaults, specify the desired pathname by the appropriate environment variable in the `/var/hpss/etc/env.conf` file. If SSM cannot start one of these utilities, make certain that either the utility is installed in the default location or that the alternate location is specified in the `env.conf` file. Also verify that the permissions on the executable are correct.

If an alternate location is specified in `env.conf`, the System Manager must be restarted for the alternate location to take effect.

The default path names for the HPSS utilities which may be started from SSM are defined as follows:

Table 1.2. Utility Default Paths

Environment Variable	Utility	Default Path
HPSS_EXEC_RECLAIM (HPSS)	reclaim utility	/opt/hpss/bin/reclaim

Environment Variable	Utility	Default Path
HPSS_EXEC_REPACK (HPSS)	repack utility	/opt/hpss/bin/repack

1.2.11. Location Server Problems

Location Server fails to start up

Diagnosis: The Location Server is unable to determine the Root Core Server

Resolution: There must be exactly one Root Core Server defined for client requests to be processed. Define the Root Core Server on the *Global Configuration* window.

Clients unable to contact running Location Server

Diagnosis: Clients aren't using a valid authentication mechanism.

Resolution: Make sure each client is using an acceptable authentication mechanism as configured with your Location Server (or the one the client wishes to contact).

Clients taking a long time to contact a replicated Location Server

Diagnosis: A replicated LS has crashed or was force halted and has not been restarted.

Resolution: Clients will be degraded until the replicated LS is brought back up. If you want to keep the replicated LS down remember to mark it non-executable.

Location Server is unable to contact a server

Diagnosis 1: The server is not executing.

Resolution: Make sure the server is running or marked non-executable.

Diagnosis 2: Location Server connections to other servers are timing out.

Resolution: Raise the Location Map Timeout on the *Location Policy* window. If you have many servers of the same type, raise the Maximum Location Map Threads on the *Location Policy* window as well. Determine the root cause of why time outs are occurring.

Diagnosis 3: A new server is in the process of being defined and is marked as executable.

Resolution: Mark the server as non-executable. The Location Server assumes that any server marked as executable should be running. In the case of Core Servers and Location Servers, it will periodically continue to try to contact them as long as they are marked executable.

1.3. HPSS User Interface Problems

The paragraphs below discuss interface problems with the Client API, FTP Daemon, and XFS problems.

1.3.1. Client API Problems

For a description of how to obtain detailed information regarding errors encountered by the Client API, refer to the *HPSS Management Guide*, Section 14.1: *Client API Configuration*.

Client API cannot initialize its security context

Diagnosis 1: The Client API cannot find the keytable entry for the user's principal in the HPSS keytable file.

Resolution: Verify that an entry exists for the principal in the HPSS **keytable** file.

Diagnosis 2: The Client API cannot access the HPSS **Client keytable** file.

Resolution: Ensure that the HPSS **Client keytable** file's permission allows read access to the Client API.

Diagnosis 3: The Client API is not accessing the correct HPSS keytable file.

Resolution: Verify the name of the HPSS keytable file. If the name is the default, verify that the environment variable **HPSS_KRB5_KEYTAB_FILE** or **HPSS_UNIX_KEYTAB_FILE** is not set. If the name is other than the default, use the environment variable to specify the name of the file to use, as specified in the *HPSS Management Guide*, Section 14.1: *Client API Configuration*, or use the **hpss_SetConfiguration()** call as specified in the *HPSS Programmer's Reference Guide*.

Client API cannot load its thread state

Diagnosis: The Client API cannot initialize accounting information.

Resolution: If a Gatekeeper is configured but not running the Client API will attempt to initialize accounting information (even if the Gatekeeper isn't doing Account Validation). Either start the Gatekeeper, unconfigure the Gatekeeper, or mark the Gatekeeper non-executable.

1.3.2. PFTP Daemon Problems

For a description of how to obtain detailed information regarding errors encountered by the PFTP Daemon, refer to the *HPSS Management Guide*, Section 14.2: *FTP Daemon Configuration*.

FTP Daemon cannot connect to the Core Server

Diagnosis 1: If the Parallel FTP client returns an error about not being able to obtain Audit information this is generally the result of the Client API being unable to locate one or more of the Core Servers. This may also occur if Account Validation has been set and the appropriate accounting information is missing. Insufficient information is returned to the Parallel FTP Daemon by the Client API to assist in additional diagnosis.

Resolution: Check to see if Account Validation is on and if so make sure that appropriate information is set for the **hpssftp** entity and the specific end client.

Diagnosis 2: The PFTP Daemon command line as specified in the `/etc/inetd.conf` file extends beyond the limit of input that will be read by the **inetd** daemon; therefore, command line arguments may be truncated.

Resolution: Shorten the length of the line in the `/etc/inetd.conf` file, either by removing some arguments or shortening path names or argument lengths.

For additional information that may help with this problem, see the *HPSS Management Guide*, Section 14.2: *FTP Daemon Configuration*.

The user cannot log into the PFTP Daemon

Diagnosis 1: The user does not have a valid entry in the FTP password file (`/var/hpss/etc/passwd`).

Resolution: Insert the user's info into the FTP password file then use the **hpssuser** utility to create the user's password. Refer to the *HPSS Management Guide*, Section 14.2: *FTP Daemon Configuration* for more information on PFTP configuration.

Diagnosis 2: The user info is not in the Kerberos Security and/or the LDAP Databases

Resolution: Use the **hpssuser** utility to create the Kerberos user account or contact the appropriate persons to accomplish this. Add the user and associated information to the LDAP Server.

All user file access and file creation is based on user id hpssftp

Diagnosis: The principal **hpssftp** has incorrect access privileges to the Core Server AUTHZACL table entry.

Resolution: Set the ACL for the Core Server AUTHZACL table entry correctly.

PFTP file transfer performance is poor

Diagnosis 1: The buffer size being used by the PFTP Daemon is limiting the file transfer performance (this affects non-parallel transfers - i.e., "put", "get" and "append").

Resolution: Adjust the performance tuning parameters in the `HPSS.conf` file under the **PFTP Client = { … }** and **PFTP Client Interfaces = { … }** sections.

Diagnosis 2: The PFTP Daemon is not using a high performance network for communication with the HPSS Movers (this affects non-parallel transfers - i.e., "put", "get" and "append").

Resolution: Adjust the performance tuning parameters in the `HPSS.conf` file under the **PFTP Daemon = { Non-Parallel HostName = … }** section.

PFTP Daemon crashes

Diagnosis: The FPTP Daemon core dumps and the core file indicates that it was terminated after receiving a SIGXFSZ signal (File size limit exceeded).

Resolution: When the PFTP Daemon's log file (`/var/hpss/ftp/adm/hpss_ftpd.log`) grows to a large size (>2GB), a SIGXFSZ signal is generated, causing it to crash. Archive the log file and restart the PFTP Daemon.

1.3.3. XFS Problems

XFS is no longer supported by HPSS, as of Version 7.1.

1.3.4. VFS Problems

Mount error, can't locate HPSS system

Diagnosis: Issuing mount command (i.e., "mount /hpssfs_cosX") receives a message like:

```
mount error: can't locate/connect to specified HPSS system
Refer to the mount(8) manual page
```

Resolution: There can be several resolutions:

- The usual cause is a system time difference between the VFS system and the Core server. Compare the times on each of the systems. Sync them to within a minute (HPSS should work with up to a 5 minute difference). Check the mover nodes as well.
- If it isn't a time difference issue, then usually the issue is in the `/var/hpss` files. Make sure there is a `/var/hpss/cred` directory (usually empty) and `/var/hpss/tmp` directory. Try using **scrub**. If **scrub** works, then usually this isn't the cause. Verify you are connecting to the correct HPSS system.
- Network connectivity. Try to ping the Core server from the VFS system. Try to ping the VFS system from the Core server.
- Add long host names to `/etc/hosts` for core and mover servers.
- Verify all the vfs install steps were successful. This includes the kernel extension, vfs daemon, and hpss configuration files. Make sure the mount points are added to `/etc/fstab` and the mount points are created both locally and remotely.
- If specifying a remote path on the `/etc/fstab` entry, make sure the path exists within hpss. This shows up as an error code -2 (ENOENT) in `/var/log/messages`.
- On the core server machine, check the central or local HPSS log (typically in `/var/hpss/log`) for messages regarding the user id hpssfs.

Mount error, no such file or directory

Diagnosis: Issuing mount command (i.e., "mount /hpssfs_cosX") receives a message like:

```
mount error 2 = No such file or directory
Refer to the mount(8) manual page
```

Resolution: Make sure the `/hpssfs_cosX` directory exists on the VFS system and has valid access permissions.

Mount error, can’t find mount point in fstab or mtab

Diagnosis: Issuing mount command (i.e., "mount /hpssfs_cosX") receives a message like:

```
mount: can't find /hpssfs_cosX in /etc/fstab or /etc/mtab
```

Resolution: Either the wrong mountpoint was typed on the mount command or an entry for the mountpoint needs to be added to `/etc/fstab`. See the Administration guide for the fstab options.

Cannot umount an HPSS VFS mount point

Diagnosis: Issuing a umount for a vfs mount point (i.e., "umount /hpssfs_cosX") receives a message like:

```
umount: /hpssfs_cosX: device is busy
```

Resolution: There can be several causes:

- A process has a file open in the mount point.

  Stop all processes that are accessing the mount point. This includes a shell that has a current working directory in the mount point. If an xterm session is started when the cwd is in the mount point, that xterm session will need to terminated.

- Terminating a process that is actively accessing the mount point may leave requests that are trying to be finished. The HPSS VFS daemon may be working a request with the HPSS Core Server. The daemon will not know if an application has terminated and to abort the request.

  Wait a couple minutes for the request to complete and retry the umount command.

- The HPSS VFS daemon process crashed.

  Issue "ps -ef | grep hpssfsd" to determine if the vfs daemon is still running. On systems where multiple HPSS vfs mount points exist, there should be an hpssfsd process for each mount point. If the hpssfsd process is not running, see below for handling HPSS vfs daemon crash details

- None of the above.

  Try using the -f option on umount to force the unmount (ie "umount -f /hpssfs_cosX"). Because this may leave requests to the Core Server open, this should be the last resort.

EIO error (-5)

Diagnosis: System call, utility, or log message in `/var/log/messages` receives EIO error.

Resolution: EIO is a generic error that indicates communication with the Core Server or Mover has been interrupted. Investigate the health of the Core Server.

DF Utility

Diagnosis: DF doesn’t report expected file system statistics

Resolution: The statistics reported back by the "df" command are for all the storage classes for the entire COS.

Maximum I/O Requests

Diagnosis: The system error log (`/var/log/messages`) contains messages like:

```
kernel: hpssfsXXXX(DEBUG): wait_for_free_prqst() reached max I/O
requests 8192, xxxx times
```

Resolution: The client applications are creating a load on VFS faster than what can be worked off. The maximum number of kernel buffer pages that the VFS mount point can use are in use and applications are requesting additional data to be transferred.

- If more memory can be allocated to the mount point, add or update the "iomax" setting for the mount point in `/etc/fstab`. The default is 8192 pages (iomax=8192).
- Reduce the application transfer load using the mount point.

SAN transfers are not transferred using SAN

Diagnosis: Either a SAN mount point fails to mount or transfers are occurring over TCP/IP.

Resolution:

- Verify the mount option "san" is specified for the mount point in /etc/fstab.
- Verify `/var/hpss/etc/hpss_san3p.conf` exists and is consistent with Mover systems.
- Verify the system is zoned for SAN access.
- Set the HPSS vfs trace level to one ("trace=1") for the mount point and attempt to mount. Verify in `/var/log/messages` HPSS SAN partitions are found.

HPSS VFS Daemon (process hpssfsd) crashed / stopped unexpectedly

Diagnosis: Transfers are failing and the umount command is failing.

Resolution: Each mount point has a separate HPSS VFS Daemon running that provides the communication interface between the HPSS VFS and HPSS Servers. The failure of one instance of the Daemon should not affect the other mount points. The failure shows up as an unresponsive request to the mount point file system.

Please collect the following:

1. core file (usually in / directory named "core.PID" where PID is the process id for the HPSS VFS daemon).
2. contents of the `/opt/hpss/src/fs` directory contents (i.e., "tar -cvf core.PID.fs.tar /opt/hpss/src/fs").
3. `/etc/fstab`

4. `/var/log/messages`
5. `/var/log/daemon.log`
6. HPSS configuration info for COS, Hierarchy, Storage Classes, Filesets, Junctions.
7. Description from user what was going on in the system when the crash occurred.
8. When the problem occurred
9. How many times has this occurred

Forward these to your support person.

Try using the -f option on umount to force the unmount (i.e., "umount -f /hpssfs_cosX"). Remount the partition.

Kernel Oops or Panic

Diagnosis: The system becomes unresponsive.

Resolution: The HPSS VFS kernel extension runs in kernel mode providing the unique functionality to provide a file system interface to HPSS. Programming errors in kernel mode can cause kernel oops which may lead to kernel panics. The result is the OS stops, creates a kernel core dump (if configured), and logs information in `/var/log/messages` about the oops or panic. The system has to be rebooted at this point to make it usable again.

Please collect the following:

1. kernel core dump file
2. oops info
3. version of the Operating System (uname -a)
4. hardware platform
5. contents of the `/opt/hpss/src/fs` directory contents (i.e., "tar -cvf core.PID.fs.tar /opt/hpss/src/fs").
6. `/etc/fstab`
7. `/var/log/messages`
8. `/var/log/daemon.log`
9. HPSS configuration info for COS, Hierarchy, Storage Classes, Filesets, Junctions.
10. Description from user what was going on in the system when the crash occurred.
11. When the problem occurred
12. How many times has this occurred

Forward these to your support person.

Reboot the system.

One way to configure the kernel to create kernel dumps is:

- Make sure kernel-kdump, kexec-tools, and crash are installed.
- Edit `/etc/grub.conf` and append `crashkernel=128M@16M` at the end of the "kernel" line.
- Reboot the system
- Turn on kdump: `chkconfig kdump on`
- Start kdump: `service kdump start`
- To test if the system captures a kernel dump: echo "c" > /proc/sysrq-trigger
- Verify there is a new dump file in `/var/crash`

To configure the system to capture a kernel dump when the system hangs:

- Configure the SysRq key by adding the following lines to `/etc/sysctl.conf`

```
# Controls the System Request debugging functionality of the kernel
kernel.sysrq = 1
```

- Either reboot the system or enable with:

```
$ sysctl -w kernel.sysrq=1
```

To capture a kernel dump when the system appears to be hung:

- At the system console:
  1. Suspend X by holding down Ctrl and Alt and then hit the F8 key.
  2. Send a system request by holding down Alt and SysRq (aka PrintScreen) and then press one of the control keys. To take a crash dump, press the *c* key.

1.4. HPSS Utility Problems

1.4.1. General Utility Problems

Here is a list of items to check when a utility is not running as expected:

- Check command-line syntax. Most utilities will print a usage summary if they are invoked with the **-?** option. Some utilities require several parameters to be specified that may not be obvious.
- Make sure that default arguments are being overridden when necessary. Many utilities use default values for several of their parameters. If the parameter is not overridden with a specific value, unexpected behavior may result.
- Make sure necessary environment variables are set. Many HPSS utilities take either default or mandatory values from the environment.

- Check Kerberos credentials, especially in situations where "permission denied" errors are encountered. Some utilities take arguments specifying the name of a Kerberos principal and a keytab file to use for authentication as that principal (usually, **-p** and **-k**), while other utilities use the existing Kerberos credential context inherited from the parent process. Chances are, if a utility does not take principal and keytab parameters, the user must have valid Kerberos credentials to use it.

1.4.2. HPSS Metadata Backup Software

General Problems

Don't: Manipulate the disk staging area

Because: It is inadvisable to manipulate the files in the backup system's disk staging area, since the backup programs could be in the process of reading from them and sending the data to tape. If the files in this area are deleted, data loss could occur since that data may not have been backed up to tape yet. Never assume that a file in the disk staging area represents a complete data object, since it may only represent part of an object; the rest may be on tape.

Backup programs will not run

Diagnosis: Configuration error

Resolution: Check the log files in the backup state directory for messages about configuration errors.

Programs terminate abnormally

Diagnosis: You are sharing resources between multiple databases' backups

Resolution: Beware of resource contention between the backup programs for different databases. Tape drives are not simultaneously sharable between different backup processes.

Remote devices do not work

Diagnosis: Configuration error

Resolution: See the section on using remote devices to make sure that you have them configured correctly. Check your **REMOTE_COMMAND** parameter(s) manually on the command line to ensure that they can communicate with the remote host. Remember that the **REMOTE_COMMAND** parameter must be able to work without prompting for a password. Also check that the **REMOTE_BIN_DIR** parameter(s) are correct and that the programs contained in them are executable by the user ID under which the backup processes run (typically that of the database instance owner).

1.4.3. RTM

Unable to get connection to server

Diagnosis: One or more of the Core Servers, Movers, or Gatekeepers is not up.

Resolution: Restart the server in question and reissue the **rtmu** command.

Set context failed

Diagnosis: A valid user name or id have not been specified.

Resolution: Check your `/var/hpss/etc/env.conf` file for incorrect or omitted settings prior to executing **rtmu**.

Chapter 2. Accounting Error Messages (ACCT Series)

ACCT0100 Accounting starting up

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is starting up and initializing.
System Action: None
Administrator Action: None

ACCT0101 Accounting exiting normally

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is exiting normally after a successful run.
System Action: None
Administrator Action: None

ACCT0102 Accounting exiting with an error

Source Files Generating Error Message: acct_Main.c
Problem Description: A fatal error has caused Accounting to exit abnormally.
System Action: Accounting exits with an error code.
Administrator Action: Follow instructions for the preceding error.

ACCT0103 Unknown startup option

Source Files Generating Error Message: acct_Main.c
Problem Description: An unknown command line argument was found.
System Action: Accounting exits without processing.
Administrator Action: Make sure Accounting is configured and started up properly from SSM

ACCT0104 Error acquiring transaction handle

Source Files Generating Error Message: acct_Main.c
Problem Description: Could not open a transaction handle to the subsystem database.
System Action: Accounting terminates with an error.
Administrator Action: Examine the detailed error information in the HPSS log to determine the cause of the problem (typically an incorrect database or schema name).

ACCT0105 Error reading storage subsys config: <subsystem database name>

Source Files Generating Error Message: acct_Main.c
Problem Description: Error detected when trying to read the subsystem record for this subsystem.

System Action: Accounting exits with an error.
Administrator Action: Examine the detailed error information in the HPSS log to determine the cause of the problem (typically an incorrect database name, schema name, or subsystem ID). The subsystem database name reported in the message is the name of the database from which accounting tried to retrieve the subsystem config record.

ACCT0106 Can’t open report file for writing

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to write to the accounting report file or its directory
System Action: Accounting exits with an error.
Administrator Action: Ensure the report file path in the Accounting policy is valid and refers to a writable file that resides in a filesystem with free space.

ACCT0107 Accounting run started

Source Files Generating Error Message: acct_Main.c
Problem Description: An accounting run has started.
System Action: None
Administrator Action: None

ACCT0108 Accounting run successfully completed

Source Files Generating Error Message: acct_Main.c
Problem Description: An Accounting run has completed successfully.
System Action: None
Administrator Action: None

ACCT0109 Report generation failed

Source Files Generating Error Message: acct_Main.c
Problem Description: An error occurred while generating the report file.
System Action: Accounting will exit with an error.
Administrator Action: Ensure the report file path in the Accounting policy is valid and refers to a writable file that resides in a filesystem with free space.

ACCT0110 Not enough memory to allocate array

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting ran out of memory while trying to allocate its results array.
System Action: Accounting exits with an error.
Administrator Action: If the system is under heavy load, run accounting again when it is not. Otherwise, you will need to give accounting more memory to run.

ACCT0111 Not enough memory to reallocate array

Source Files Generating Error Message: acct_Main.c

Problem Description: Accounting ran out of memory while trying to expand it's results array.
System Action: Accounting exits with an error.
Administrator Action: If the system is under heavy load, run accounting again when it is not. Otherwise, you will need to give accounting more memory to run.

ACCT0112 Error selecting records: <database name>

Source Files Generating Error Message: acct_Main.c
Problem Description: Error detected in trying to select the acctsum records to be read for the accounting run. The database name above provides the name of the database against which the select was issued.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

ACCT0113 Report file path name is missing

Source Files Generating Error Message: acct_Main.c
Problem Description: The required report file pathname is missing in the Accounting Policy.
System Action: Accounting exits with an error.
Administrator Action: Enter a pathname in SSM where the generated report file should be written.

ACCT0114 Can't open comment file for reading

Source Files Generating Error Message: acct_Main.c
Problem Description: The commentary path cannot be read.
System Action: If the file doesn't exist or permissions don't allow reading, Accounting continues to process. Any other error will cause Accounting to exit with an error.
Administrator Action: Verify the commentary file exists and has proper permissions set, or remove the commentary file pathname from the Accounting Policy if it is not needed.

ACCT0115 Can't record run status

Source Files Generating Error Message: acct_Main.c
Problem Description: The accounting run status cannot be recorded into the accounting policy.
System Action: If this occurs before a report file is generated, accounting exits with an error. Otherwise, it logs an error and continues.
Administrator Action: Check that the Accounting Policy record can be updated properly within SSM.

ACCT0117 Can't read accounting policy record

Source Files Generating Error Message: acct_Main.c
Problem Description: Error detected in trying to read in the accounting policy record.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

ACCT0118 Can’t update accounting policy record

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to write changes to the Accounting Policy record.
System Action: Accounting exits with an error.
Administrator Action: Make sure the Accounting Policy record exists and can be accessed through SSM.

ACCT0119 Logic error in metadata library detected

Source Files Generating Error Message: acct_Main.c
Problem Description: This indicates a potential system flaw in the HPSS metadata library. This message should never been seen in a production environment.
System Action: Accounting terminated with error.
Administrator Action: Contact IBM HPSS support.

ACCT0120 Account summaries processed: <count>

Source Files Generating Error Message: acct_Main.c
Problem Description: None. This is a status message indicating the number of accounting summary records processed so far.
System Action: None
Administrator Action: None

ACCT0121 Accounting is already running

Source Files Generating Error Message: acct_Main.c
Problem Description: An attempt was made to start Accounting when an Accounting process is currently running.
System Action: The second Accounting process exits with an error. The first Accounting process continues to execute.
Administrator Action: If this was not done by accident, see if there is an existing Accounting process. If not, remove the accounting lock file and try again. It has an extension of ".lck" and is located in in `/var/hpss/acct`.

ACCT0122 Can’t unlock lock file

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to unlock the accounting lock file.
System Action: Accounting exits normally since it has already generated a report file.

Administrator Action: Remove the accounting lock file. It has an extension of ".lck" and is located in `/var/hpss/acct`.

ACCT0123 Error trying to check lock file

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to lock the accounting lock file.
System Action: Accounting exits with an error.
Administrator Action: Verify that no Accounting processes are currently running. Remove the lock file. It has an extension of ".lck" and is located in in `/var/hpss/acct`.

ACCT0124 Can’t open lock file

Source Files Generating Error Message: acct_Main.c
Problem Description: The accounting lock file could not be opened.
System Action: Accounting will exit with an error.
Administrator Action: Remove any existing lock file if there are no currently running Accounting processes. The lock file has an extension of ".lck" and located in in `/var/hpss/acct`.

ACCT0125 Can’t unlink lock file

Source Files Generating Error Message: acct_Main.c
Problem Description: The accounting lock file could not be removed after a successful accounting run.
System Action: Accounting will exit normally since a report file has already been generated.
Administrator Action: Remove any existing lock file if there are no currently running Accounting processes.

ACCT0126 Can’t spawn signal handler

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t create a signal handler thread.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy memory load. Run Accounting again when it is not.

ACCT0127 Can’t count summary records(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to determine the number of summary metadata records.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

ACCT0128 Duplicate summary metadata found

Source Files Generating Error Message: acct_Main.c
Problem Description: Duplicate accounting summary records were found that should be unique.
System Action: Accounting exits with an error.
Administrator Action: Run Accounting again. If the same problem persists, contact HPSS technical support.

ACCT0129 A summary total record is missing

Source Files Generating Error Message: acct_Main.c
Problem Description: A total summary metadata record is missing where one should exist.
System Action: Accounting exits with an error.
Administrator Action: Run Accounting again. If the same problem persists, contact HPSS technical support

ACCT0130 Can’t create summary buffer

Source Files Generating Error Message: acct_Main.c
Problem Description: This message is currently unused.
System Action: None
Administrator Action: None

ACCT0131 Can’t open acct summary to lock

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t open the accounting summary metadata file in order to lock it. Since the summary file could not be locked, accounting summary records will continue to be updated while accounting is running so information may appear to be slightly inconsistent.
System Action: Accounting continues to process normally.
Administrator Action: None

ACCT0132 Can’t get expiration time for lock

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting failed to setup the accounting summary lock expiration time and will be unable to lock the accounting summary file. Since the summary file could not be locked, accounting summary records will continue to be updated while accounting is running so information may appear to be slightly inconsistent.
System Action: Accounting continues to process normally.
Administrator Action: None

ACCT0134 Can’t lock summary file (<error-info>)

Source Files Generating Error Message: acct_Main.c

Problem Description: Accounting is unable to lock the account summary metadata file. Since the summary file could not be locked, accounting summary records will continue to be updated while accounting is running so information may appear to be slightly inconsistent.
System Action: Accounting continues to process normally.
Administrator Action: None

ACCT0135 Timedwait cond variable failed

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting failed to perform a timed wait on a condition variable.
System Action: If this occurs while attempting to lock the account summary metadata file, the file lock is released but Accounting continues to process. Otherwise, Accounting exits with an error.
Administrator Action: If Accounting does not generate a report file, run Accounting again.

ACCT0136 Failed to close summary file (<acctsum-md-filename>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting failed to close the accounting summary metadata file
System Action: Accounting continues to run normally.
Administrator Action: If this problem persists, contact HPSS technical support.

ACCT0137 Call to sigwait() failed

Source Files Generating Error Message: acct_Main.c
Problem Description: A system call to sigwait() failed.
System Action: None
Administrator Action: If this problem persists, contact HPSS technical support.

ACCT0138 Unknown signal received (<signal-number>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting received a signal it does not normally look for.
System Action: The signal is ignored.
Administrator Action: If this problem persists, contact HPSS technical support.

ACCT0139 Internal coding error (<info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: An internal inconsistency has occurred.
System Action: Accounting exits with an error.
Administrator Action: Contact HPSS technical support.

ACCT0140 Trouble reading acct summaries(<error info>)

Source Files Generating Error Message: acct_Main.c

Problem Description: Accounting receives an error reading acct summary records.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0142 Account run failed. View error log.

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting did not complete due to a previous fatal error.
System Action: Accounting exits with an error.
Administrator Action: View the SSM Alarms and Events screen in order to determine the fatal error.

ACCT0143 Accounting saving snapshot records

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is starting to save accounting snapshot records to metadata
System Action: None
Administrator Action: None

ACCT0144 Accounting report successful - cleaning up

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is cleaning up metadata after a successful run
System Action: None
Administrator Action: None

ACCT0145 Can’t signal a cond variable

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to signal a condition variable.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0146 Can’t join with a thread

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting could not join with a spawned thread.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0147 Can’t detach a thread

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting could not detach a thread.
System Action: Accounting exits with an error.

Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0148 Can’t destroy a cond variable

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t destroy a condition variable.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0149 Can’t destroy a mutex

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t destroy a mutex variable.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0150 Can’t initialize a mutex

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t initialize a mutex variable.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0151 Can’t initialize a cond variable

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t initialize a condition variable.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0152 Can’t create lock thread

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting failed to create the summary file lock thread.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0153 Unable to obtain summary file lock

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t lock the summary file within a timeout period. Since the summary file could not be locked, accounting summary records will continue to be updated while accounting is running so information may appear to be slightly inconsistent.

System Action: Accounting continues to process.
Administrator Action: None

ACCT0154 Can’t lock a mutex (<mutex-info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t lock the specified mutex.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load an then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0155 Can’t unlock a mutex (<mutex-info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting couldn’t unlock the specified mutex.
System Action: Accounting exits with an error.
Administrator Action: Make sure the system is not under heavy load and then restart the accounting run. If the problem persists, contact HPSS technical support.

ACCT0157 Summary not found for snapshot (<subsystem database name>)

Source Files Generating Error Message: acct_Main.c
Problem Description: An account snapshot record has no matching account summary record.
System Action: Accounting exits with an error. A report file may have been created.
Administrator Action: If a report file has not been created, run accounting again.

ACCT0158 Can’t read summary record(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting receives an error reading acct summary records.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0159 Summary and snapshot tags differ

Source Files Generating Error Message: acct_Main.c
Problem Description: A snapshot record does not match it’s summary record counterpart.
System Action: Accounting will exit with an error. A report file may or been created.
Administrator Action: If a report has been created, save it. Contact HPSS technical support.

ACCT0160 Can’t update summary record(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting receives an error updating an acct summary record.
System Action: Accounting terminated with error.

Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0161 Can’t read snapshot records(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting receives an error reading an acct snapshot record.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0162 Can’t subtract a snapshot (<subsystem database name>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to subtract an accounting snapshot record from its summary record.
System Action: Accounting exits with an error.
Administrator Action: View the error log for a previous accounting message.

ACCT0163 Can’t delete snapshot record(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting receives an error deleting an acct snapshot record.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0164 Trouble unlocking account summaries (<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting is unable to unlock acct summary records.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0165 File Accesses Inconsistent, AcctId <ID #> (COSId is logged as error)

Source Files Generating Error Message: acct_Main.c
Problem Description: An inconsistency exists in the file access counts for a single account summary record.
System Action: None
Administrator Action: This may be the result of a previous summary lock failure. If this error persists contact HPSS technical support.

ACCT0166 Bytes Moved Inconsistent, AcctId <ID #> (COSId is logged as error)

Source Files Generating Error Message: acct_Main.c
Problem Description: An inconsistency exists in a single account summary record’s bytes moved count.
System Action: None

Administrator Action: This may be the result of a previous summary lock failure. If this error persists contact HPSS technical support.

ACCT0167 Can’t create snapshot record (<database name>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting can’t create a snapshot record.
System Action: Accounting will retry this operation. If it can’t make progress it will exit with an error.
Administrator Action: Make sure DB2is running. Examine HPSS logs for detailed info. Contact IBM HPSS support if needed.

ACCT0168 Severe error in transaction processing

Source Files Generating Error Message: acct_Main.c
Problem Description: An unexpected error was encountered during processing of a metadata transaction.
System Action: Accounting terminated with error.
Administrator Action: Contact IBM HPSS support.

ACCT0169 Can’t read account statistics record(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting was unable to read the accounting statistics record for the subsystem.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0170 Can’t create account statistics record(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting was unable to insert the accounting statistics record for the subsystem.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0171 Can’t update account statistics record(<error info>)

Source Files Generating Error Message: acct_Main.c
Problem Description: Accounting was unable to update the accounting statistics record for the subsystem.
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Contact IBM HPSS support if needed.

ACCT0172 MM error detail(<error info>)

Source Files Generating Error Message: acct_Main.c

Problem Description: No The <error info> contains a description of the problem.
System Action: Print detailed metadata error info out with message
Administrator Action: Use the information provided in the error message to diagnose cause of metadata errors.

Chapter 3. Account Validation Error Messages (AVSR Series)

AVSR0101 Internal Error (<info>)

Source Files Generating Error Message: Not currently supported.
Problem Description: An internal inconsistency was found.
System Action: None
Administrator Action: Contact HPSS technical support

AVSR0102 Internal Error (Assertion Failed: <info>)

Source Files Generating Error Message: av_Default.c av_Support.c, av_lib_Cache.c, av_lib_Server.c
Problem Description: An assertion failed. This should never happen.
System Action: None
Administrator Action: Contact HPSS technical support

AVSR0103 Cannot get transaction handle for DB (<error info>)

Source Files Generating Error Message: av_Support.c av_Default.c
Problem Description: Cannot get transaction handle for database indicated by error info.
System Action: Operation fails.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

AVSR0104 Failed to register interface (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: The Account Validation interface could not be registered with RPC runtime.
System Action: The server will exit with an error
Administrator Action: Examine log messages in the HPSS logs. Contact HPSS support if needed.

AVSR0105 Failed to unregister interface (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: The Account Validation service could not be unregistered from RPC runtime.
System Action: None. This occurs during shutdown, which will continue.
Administrator Action: Examine log message in the HPSS logs. Contact HPSS support if needed.

AVSR0106 Can’t get local id from trusted realm table (<info>)

Source Files Generating Error Message: av_Support.c, av_lib_Server.c
Problem Description: There was a problem getting the local realm id from the trusted realm table.
System Action: The operation is retried. The server will exit with an error during startup.
Administrator Action: Make sure the local realm id has been set up properly in the trusted realm table.

AVSR0107 Failed to initialize a pthread mutex (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: A fatal error occurred while trying to initialize a required mutex.
System Action: The server exits with an error.
Administrator Action: Restart the server. If this condition persists, contact HPSS technical support.

AVSR0108 Failed to lock a pthread mutex (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: A fatal error occurred while attempting to lock a mutex.
System Action: The server exits with an error.
Administrator Action: Restart the server. If this condition persists, contact HPSS technical support.

AVSR0109 Failed to unlock a pthread mutex (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: A fatal error occurred while attempting to unlock a mutex.
System Action: The server exits with an error.
Administrator Action: Restart the server. If this condition persists, contact HPSS technical support.

AVSR0112 Can’t read accounting policy record from DB (<error info>)

Source Files Generating Error Message: av_Support.c
Problem Description: Error detected in trying to read in the accounting policy record
System Action: Accounting terminated with error.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

AVSR0113 Site AVAL initialization failed (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: The site written account validation policy module returned an unexpected error during initialization.
System Action: The server will exit with an error

Administrator Action: Determine why the site written module failed and then restart the server.

AVSR0114 Error during site AVAL shutdown (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: The site written account validation policy module returned an unexpected error during shutdown
System Action: None. The server continues to exit as if the error did not occur.
Administrator Action: Determine why the site written module failed.

AVSR0115 Check accounting policy (<info>)

Source Files Generating Error Message: av_Default.c, av_Support.c
Problem Description: The accounting policy metadata record was setup improperly. This usually reflects an unknown accounting style.
System Action: If this occurs during server startup, the server exits with an error. Otherwise, an error is returned to the client.
Administrator Action: Edit the accounting policy record. Make sure the style of accounting is correct.

AVSR0116 Out of memory (object: <info>)

Source Files Generating Error Message: av_lib_Cache.c
Problem Description: Could not allocate a block of virtual memory
System Action: If this occurs during server startup, the server exits with an error. Otherwise an error is returned to the client.
Administrator Action: If the server exits, restart it. Determine if the system is under heavy memory load.

AVSR0117 Fatal error while processing request (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: A fatal error occurred while processing a request. This may or may not have been previously reported.
System Action: The server exits with an error.
Administrator Action: Determine why the server exited. This is usually caused by a mutex failure or running out of virtual memory. If the problem persists, contact HPSS technical support.

AVSR0118 Fatal authorization checking error (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: While performing authorization checking for an incoming client request a fatal error occurred.
System Action: The server exits with an error.
Administrator Action: Determine why the server exited. This is usually caused by a mutex failure or running out of virtual memory. If the problem persists, contact HPSS technical support.

AVSR0119 Can’t get local site info from LS(<error info>)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: A call to hpss_LocateSiteByName to find the site information failed.
System Action: Operation terminated with error
Administrator Action: Examine the error code in the message to determine cause of failure. Make sure site info is set up correctly. Call IBM support if needed.

AVSR0120 Can’t read global config from metadata DB <error info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: Cannot read the global configuration record from the database in error info.
System Action: Server exits with error at startup.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

AVSR0121 Can’t read accounting policy from metadata DB <error info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: Cannot read the accounting policy record from the database in error info.
System Action: Server exits with error at startup.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

AVSR0122 Can’t read storage subsystem from metadata DB <error info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: Cannot read the storage subsystem record from the database in error info.
System Action: Server exits with error at startup.
Administrator Action: Examine the detailed error info in the HPSS log to determine the exact cause of the problem. Typically, the problem would be an incorrect database name or schema name provided to the utility.

AVSR0123 Can’t initialize connection block (<server-info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: An error occurred while trying to initialize a connection control block to the specified server.
System Action: The server exits with an error during startup.
Administrator Action: Make sure the specified server info is correct and that the server is available. Contact HPSS support if needed.

AVSR0124 Can’t locate GK config from subsystem (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: No executable Gatekeeper could be found for the subsystem even though one is specified in the configuration
System Action: The system will attempt to locate another Gatekeeper.
Administrator Action: Make sure each subsystem that specifies a Gatekeeper has a valid Gatekeeper defined and running for it.

AVSR0125 Can’t read all GK configs from subsystem (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: An error occurred while trying to read a configuration record of a Gatekeeper that supports account validation.
System Action: The server exits with an error
Administrator Action: Examine HPS logs for detailed errors. This could result from an improper configuration specifying the wrong database, etc.

AVSR0126 No executable GK found for acct validation (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: No executable Gatekeepers are defined which support Account Validation.
System Action: The server exits with an error.
Administrator Action: If you are using Account Validation, you’ll need to define at least one Gatekeeper. If you are not using Account Validation, disable Account Validation on the Accounting Policy screen. Restart the server.

AVSR0127 Can’t destroy bad RPC connection to GK(<error info>)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: An error occurred trying to clean up a bad connection to the GK.
System Action: Error logged and operation fails.
Administrator Action: Examine the specific error to determine the problem. Make sure RPC runtime environment is properly operational. Contact IBM support if needed.

AVSR0128 Invalid GK server list returned by GateKeeper<error info>)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: An empty GK server list was returned from the Location Server. This may indicate a defect in the Location Server. This operation is retried a limited number of times.
System Action: Error logged and operation fails.
Administrator Action: If this is persistent, contact IBM HPSS support.

AVSR0129 Unexpected error binding to Gatekeeper<error info>)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Could not obtain a connection to the GateKeeper.

System Action: Error logged and operation fails.
Administrator Action: Make sure GateKeeper is running and that RPC runtime is working correctly. If needed, contact IBM HPSS support.

AVSR0130 Unable to connect to site(<error info>)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Could not obtain a connection to the GateKeeper to perform account validation at the site indicated by error info.
System Action: Error logged and operation fails.
Administrator Action: Make sure GateKeeper is running and that RPC runtime is working correctly. If needed, contact IBM HPSS support.

AVSR0131 Can’t contact registry at (<path>)

Source Files Generating Error Message: av_Common.c
Problem Description: An error occurred while trying to contact the specified LDAP registry
System Action: If this is the local registry and the error occurred during startup, the server may exit with an error. Otherwise an error will be returned to the caller.
Administrator Action: Make sure the LDAP registry specified can be reached and that this server has access privileges to it. Restart the server.

AVSR0132 Can’t read acct validation metadata (<info>)

Source Files Generating Error Message: av_Default.c, av_Support.c
Problem Description: An error occurred while trying to read an account validation metadata record.
System Action: An error is returned to the client.
Administrator Action: Check the HPSS logs for detailed information. Could be caused by a bad configuration such as specifying an inccorect DB name.

AVSR0601 AV initializing (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: Account Validation is registering it’s interfaces and initializing memory structures.
System Action: None
Administrator Action: None

AVSR0602 AV initialized (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: Account Validation has initialized properly
System Action: None
Administrator Action: None

AVSR0603 AV shutting down (<info>)

Source Files Generating Error Message: av_Support.c

Problem Description: Account Validation has started to shut down and is unregistering it's service.
System Action: None
Administrator Action: None

AVSR0604 AV is shut down (<info>)

Source Files Generating Error Message: av_Support.c
Problem Description: Account Validation has unregistered its service and cleaned up.
System Action: None
Administrator Action: None

AVSR0701 Entering API: <request-name>

Source Files Generating Error Message: av_Support.c
Problem Description: The specified client request has started.
System Action: None
Administrator Action: None

AVSR0702 Leaving API: <request-name>

Source Files Generating Error Message: av_Support.c
Problem Description: A client request has completed.
System Action: None
Administrator Action: None

AVSR0801 Entering: <routine>

Source Files Generating Error Message: av_Support.c
Problem Description: The routine specified has been entered.
System Action: None
Administrator Action: None

AVSR0802 Leaving: <routine>

Source Files Generating Error Message: av_Support.c
Problem Description: The routine specified has returned.
System Action: None
Administrator Action: None

AVSR0900 Returning cached AV API info (<routine>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: The specified routine is returning cached information rather than calling the Gatekeeper AV service for this request.
System Action: None
Administrator Action: None

AVSR0901 Returned from AV API <info>

Source Files Generating Error Message: av_lib_Server.c
Problem Description: The specified routine is returning information to the client that has just been returned from the Gatekeeper AV service for this request.
System Action: None
Administrator Action: None

AVSR0903 Minor admin mistake. GK returned HPSS_EBYPASS. (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: Account Validation has recently been turned off, and the Gatekeeper has been recycled, but this server has not been recycled.
System Action: The system will handle the request as if it were bypassed.
Administrator Action: Recycle this server at your convenience.

AVSR0904 Caching results (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: Results from calling the Gatekeeper API specified are being cached locally.
System Action: None
Administrator Action: None

AVSR0905 Bypassing account validation (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: Account Validation is being bypassed for this site.
System Action: None
Administrator Action: None

AVSR0906 No GK found for this subsystem (<info>)

Source Files Generating Error Message: av_lib_Server.c
Problem Description: No Gatekeeper could be found for the subsystem of the current server.
System Action: None.
Administrator Action: None

AVSR0907 Reusing connection(interface_id)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Reusing existing connection to server.
System Action: None.
Administrator Action: None

AVSR0908 Rebuilding connection(function)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Building new connection to server.

System Action: None.
Administrator Action: None

AVSR0909 Bypassing accounting at site, no Gks.(function name)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Bypassing accounting at site since no Gks configured
System Action: None.
Administrator Action: None

AVSR0910 Initializing connection (server id)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Initializing connection to server.
System Action: None.
Administrator Action: None

AVSR0911 AV being bypassed at site(server id)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Account validation being bypassed at site.
System Action: None.
Administrator Action: None

AVSR0912 Connection established(server id)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Connection establish to AV server for site.
System Action: None.
Administrator Action: None

AVSR0913 Calling AV API(api name)

Source Files Generating Error Message: av_lib_Client.c
Problem Description: Calling account validation API.
System Action: None.
Administrator Action: None

AVSR0915 MM detailed err: (detail info)

Source Files Generating Error Message: av_Common.c
Problem Description: Detailed information from a database failure.
System Action: Operation fails.
Administrator Action: Examine the detailed error text and any other associated message in the log to determine cause of database failure. Contact HPSS support if needed.

Chapter 4. Common Error Messages (COMM Series)

COMM0001 Error reading global configuration record: <global database name>

Source Files Generating Error Message: mps_Main.c, mvr_initdev.c, ssm_sm_init.c, mnt_ServerInit.c, nfs_Main.c, core_ServerSetAttrs.c, core_Init.c.
Problem Description: An error has been encountered reading the global configuration record at startup time.
System Action: The server aborts.
Administrator Action: Check DB2. Check that a global configuration table exists and that the global configuration record has been created.

COMM0002 Error reading subsystem configuration record: SubSystem Id = '<ID #>'.

Source Files Generating Error Message: core_Init.c, mps_Main.c, core_ServerSetAttrs.c.
Problem Description: An error has been encountered reading a subsystem configuration record at startup time.
System Action: The server aborts.
Administrator Action: Check DB2. Check that the subsystem configuration table exists and that the expected number of subsystem configuration records have been created.

COMM0003 Error reading server generic configuration: Descriptive Name = '<name>'.

Source Files Generating Error Message: core_Init.c, hpssd_Main.c, mnt_ServerInit.c, mps_Main.c, mvr_initdev.c, nfs_Main.c, pvl_mm.c, pvr_main.c, pvr_util.c.
Problem Description: An error has been encountered reading the generic configuration of a server using the server's descriptive name. A server usually only reads its own configuration this way.
System Action: The server aborts.
Administrator Action: Check DB2. Check that the server generic configuration table exist and that the expected server generic configuration records have been created. Check that the correct descriptive name is being used.

COMM0004 Error reading server generic configuration: Server Type = '<type>', SubSystem Id = '<ID #>'.

Source Files Generating Error Message: core_Init.c, mnt_ServerInit.c, mps_Main.c, mvr_admmain.c, mvr_initdev.c, nfs_Main.c, pvl_client.c, pvl_mm.c, pvr_main.c.
Problem Description: An error has been encountered while attempting to read the generic configuration of a server using the server's type and subsystem. The Servers within a subsystem attempt to read the configuration of the other servers using this

method. For instance, the MPS uses the server type and the subsystem to find the Core Server within its subsystem.
System Action: The server aborts.
Administrator Action: Check DB2. Check that the server generic configuration table exists and that the expected server generic configuration records have been created. Ensure that a server of the expected type has been created in the indicated subsystem.

COMM0005 Error reading server generic configuration: Server Id = '<ID >'.

Source Files Generating Error Message: core_Init.c
Problem Description: An error was encountered while attempting to read the generic configuration of a server using the server's ID.
System Action: The server aborts.
Administrator Action: Check DB2. Check that the server generic configuration table exists and that the expected server generic configuration records have been created. Check that a server with the given Id has been created.

COMM0006 Error reading server specific configuration: Descriptive Name = '<name>'.

Source Files Generating Error Message: mnt_ServerInit.c, mps_Main.c, mvr_initdev.c, nfs_Main.c.
Problem Description: An error was encountered while attempting to read the specific configuration of a server. A server usually only attempts to read its own specific configuration record.
System Action: The server aborts.
Administrator Action: Check DB2. Check that the server specific configuration table exists and that the expected server specific configuration records have been created.

COMM0007 Configuration error: missing server: Server Type = '<type>', Subsystem Id = '<ID #>'.

Source Files Generating Error Message: core_Init.c, mnt_ServerInit.c, mps_Main.c, mvr_initdev.c, nfs_Main.c.
Problem Description: A server which is required to exist cannot be found. For instance, a Core Server must exist within a subsystem. If the MPS cannot find this Core Server, it will log this error.
System Action: The server aborts.
Administrator Action: Check that a server of the specified type has been created in the given subsystem. Remember that subsystem *0* is not a valid subsystem ID. Ensure that the server is marked as executable in its server generic configuration record.

COMM0008 Configuration error: multiple servers: Server Type = '<type>', Subsystem Id = '<ID #>'.

Source Files Generating Error Message: core_Init.c, logc_init_config.c, logd_init_config.c, mnt_ServerInit.c, mps_Main.c, mvr_initdev.c, nfs_Main.c, pvl_mm.c, pvr_main.c.

Problem Description: More servers than are allowed for a valid configuration have been found. For instance, one and only one Core Server is allowed to exist within a subsystem. If the MPS finds more than one Core Server, it will log this error.
System Action: The server aborts.
Administrator Action: Ensure that multiple servers of the specified type have not been created in the given subsystem. Remember that subsystem *0* is used to indicate that a server does not belong to a subsystem.

COMM0009 Server type mismatch between generic configuration and executable: Descriptive Name = '<name>'.

Source Files Generating Error Message: core_Init.c, mps_Main.c, nfs_Main.c, pvl_mm.c, pvr_main.c.
Problem Description: A server has been started using a descriptive name which belongs to a server of a different type. For instance, using the "Core Server" as the descriptive name for the MPS.
System Action: The server aborts.
Administrator Action: Contact your customer support representative.

COMM0010 Failure in initializing account validation.

Source Files Generating Error Message: core_Init.c.
Problem Description: An error was returned while initializing account validation.
System Action: The server aborts.
Administrator Action: If account validation is enabled, ensure that an accounting policy has been configured.

COMM0011 Error inserting request list entry, code: <error code>.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: An error was returned from the call to insert a request list entry into the RTM request list. This is likely due to a software bug: either the server calling the RTM routine has provided invalid input arguments, or the RTM library routine has a bug.
System Action: The server logs an error. If a memory or mutex error caused the failure, the server may crash.
Administrator Action: Contact IBM HPSS Support.

COMM0012 Error deleting request list entry.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: An error was returned while attempting to delete a request list entry from the RTM request list. This is likely due to a software bug. Either the server calling the RTM routine has provided invalid input arguments, or the RTM library routine has a bug.
System Action: The server logs an error. If a mutex error caused the failure, the server may crash.
Administrator Action: Contact IBM HPSS Support.

COMM0013 Error updating request list entry, state: <RTM state ID #>.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: An error was returned from the call to update a request list entry in the RTM request list. This is likely due to a software bug. Either the server calling the RTM routine has provided invalid input arguments, or the RTM library routine has a bug.
System Action: The server logs an error. If a mutex error caused the failure, the server may crash.
Administrator Action: Contact IBM HPSS Support.

COMM0014 Error inserting wait list entry, wait reason: <wait reason ID >.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: An error was returned from the call to insert a waitlist entry into an RTM request list entry. This is likely due to running out of memory or a software bug. Either the server calling the RTM routine has provided invalid input arguments, or the RTM library routine has a bug.
System Action: The server logs an error. If a memory or mutex error caused the failure, the server may crash.
Administrator Action: If you determine that more memory is needed, provide more memory. Otherwise, contact IBM HPSS Support.

COMM0015 Error deleting wait list entry.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: An error was returned from the call to delete a waitlist entry from an RTM request list entry. This is likely due to a software bug. Either the server calling the RTM routine has provided invalid input arguments, or the RTM library routine has a bug.
System Action: The server logs an error. If a mutex error caused the failure, the server may crash.
Administrator Action: Contact IBM HPSS Support.

COMM0016 Request list entry missing.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: An internal check inside the server has found that a request entry is not marked valid as expected. This is due to a software bug.
System Action: The server logs an error.
Administrator Action: Contact IBM HPSS Support.

COMM0017 Severe error, mutex lock operation failed.

Source Files Generating Error Message: hpss_Cos.c.
Problem Description: A call to pthread_mutex_lock has not succeed.
System Action: The error is logged.
Administrator Action: Contact IBM HPSS Support.

COMM0018 Severe error, mutex unlock operation failed.

Source Files Generating Error Message: hpss_Cos.c.
Problem Description: A call to pthread_mutex_unlock has not succeed.
System Action: The error is logged.
Administrator Action: Contact IBM HPSS Support.

COMM0019 Reinit on COS <ID #> bypassed due to hierarchy id change.

Source Files Generating Error Message: hpss_Cos.c.
Problem Description: A server has been reinitialized and has attempted to reread the hierarchy metadata. This is only supported if none of the hierarchy IDs have changed.
System Action: Reinitialization of the hierarchy metadata is bypassed.
Administrator Action: Restart all servers that depend on the class of service metadata (e.g. Core Server, MPS).

COMM0020 Configuration error, storage class <ID #> refers to non existing migration policy.

Source Files Generating Error Message: bfs_SClass.c.
Problem Description: A storage class has been found which refers to a nonexistent migration policy.
System Action: The server aborts.
Administrator Action: Check the storage class configuration for an invalid migration policy. Change the storage class to refer to a valid migration policy or create the referenced migration policy.

COMM0021 Configuration error, storage class <ID #> refers to non existing purge policy.

Source Files Generating Error Message: bfs_SClass.c.
Problem Description: A storage class has been found which refers to a nonexistent purge policy.
System Action: The server aborts.
Administrator Action: Check the storage class configuration for an invalid purge policy. Change the storage class to refer to a valid purge policy or create the referenced purge policy.

COMM0023 Call to RTM initialization routine failed, routine = <routine name>.

Source Files Generating Error Message: core_Init.c.
Problem Description: An error was returned from a call to one of the RTM initialization routines. This is due to a software bug.
System Action: The server aborts.
Administrator Action: Contact IBM HPSS Support.

COMM0024 Call to mm_Initialize to initialize metadata manager failed: <error details>.

Source Files Generating Error Message: core_Init.c, logc_init_config.c, logd_init_config.c, mnt_ServerInit.c, nfs_Main.c, pvl.c, pvr_main.c, ssm_sm_init.c.

Problem Description: The mm_Initialize function, which initializes the database interface library, has returned an error.
System Action: The server aborts.
Administrator Action: Make sure DB2 is running and accessible by the *hpss* user. Contact HPSS support for help.

COMM0025 Call to hpss_RPCCreateThreadPool to create a thread pool failed.

Source Files Generating Error Message: core_InitSS.c, gk_Main.c, mvr_admrequest.c, rtm_ReqList.c, ssm_sm_init.c.
Problem Description: An attempt has been made to create a thread pool. This attempt has failed and an error has been returned.
System Action: The server receiving the error may crash.
Administrator Action: Restart the server. If the error persists, contact your HPSS support representative.

COMM0026 Call to hpss_RPCRegisterThreadPool to register a thread pool failed.

Source Files Generating Error Message: core_InitSS.c, gk_Main.c, mvr_admrequest.c, rtm_ReqList.c, ssm_sm_init.c.
Problem Description: An attempt has been made to register a thread pool. This attempt has failed and an error has been returned.
System Action: The server receiving the error may crash.
Administrator Action: Restart the server. Ensure that the system security mechanism is functioning properly. If the error persists, contact your HPSS support representative.

COMM0027 Call to hpss_GetServerInterface to look for interface information failed.

Source Files Generating Error Message: av_Support.c, core_Init.c, core_InitBFS.c, core_SSM.c, dmg_admin.c, gk_Main.c, gk_SSMPackage.c, hpssd_Main.c, logc_notify_init.c, logc_ssm_thread.c, logd_notify_init.c, logd_ssm_thread.c, map_Utils.c, mnt_ServerInit.c, mps_Conn.c, mps_Main.c, mvr_admmain.c, mvr_admrequest.c, nfs_StatsNotify.c, pvl.c, pvl_client.c, pvl_mm.c, pvr_main.c, pvr_notify.c, pvr_util.c, rtm_ReqList.c, ss_pvl_mount.c, ss_pvl_wrappers.c, ssm_sm_adm_net_init.c, ssm_sm_adm_register_sm.c.
Problem Description: An attempt has been made to get a server's interface configuration data. This is a fundamental operation that, under normal operating circumstances, should never fail.
System Action: The server will most likely crash.
Administrator Action: Ensure that the system security mechanism is functioning properly. Restart the server, if appropriate. If the error persists, contact your HPSS support representative.

COMM0028 Call to hpss_RPCRegisterService to register RPC service <interface name> failed: <error details>

Source Files Generating Error Message: av_Support.c, core_Init.c, gk_Main.c, hpssd_Main.c, logc_ssm_thread.c, logd_ssm_thread.c, map_Utils.c, mnt_ServerInit.c,

mvr_admmain.c, mvr_admrequest.c, pvl.c, pvr_main.c, rtm_ReqList.c, ss_pvl_mount.c, ssm_sm_adm_register_sm.c.
Problem Description: A server's attempt to register its interface has failed.
System Action: The server will most likely crash.
Administrator Action: Ensure that the system security mechanism is functioning properly. Restart the server, if appropriate. If the error persists, contact your HPSS support representative.

COMM0029 Call to hpss_RPCAllocateConnection to allocation RPC connection to <server name> failed: <error details>.

Source Files Generating Error Message: core_SSM.c, gk_SSMPackage.c, logc_notify_init.c, logd_notify_init.c, mnt_ServerInit.c, mps_Conn.c, mvr_admmain.c, nfs_StatsNotify.c, pvl_mm.c, pvr_notify.c, pvr_util.c, ss_pvl_wrappers.c.
Problem Description: A server's attempt to allocate an RPC connectionhas failed.
System Action: The server will most likely crash.
Administrator Action: Ensure that the system security mechanism is functioning properly. Restart the server, if appropriate. If the error persists, contact your HPSS support representative.

COMM0030 Call to hpss_RPCInitConnection to initialize RPC services failed: <error details>.

Source Files Generating Error Message: gk_Main.c, hpssd_Main.c, logc_init_config.c, logd_init_config.c, mnt_ServerInit.c, mvr_admmain.c, pvl.c, pvr_main.c, ssm_sm_adm_register_sm.c.
Problem Description: A server's attempt to initialize an RPC connection has failed.
System Action: The system will most likely crash.
Administrator Action: Ensure that the system security mechanism is functioning properly. Restart the server, if appropriate. If the error persists, contact your HPSS support representative.

COMM0031 Call to hpss_RPCOpenConnection to open an RPC connection to <server name> failed: <error details>.

Source Files Generating Error Message: bfs_GK.c, core_SSM.c, gk_SSMPackage.c, gk_ShutDown.c, logc_reconnect_ssm.c, logd_reconnect_ssm.c, mnt_ServerInit.c, mps_Conn.c, mvr_admmain.c, nfs_SSMApi.c, nfs_StatsNotify.c, pvl_mm.c, pvl_pvr.c, pvr_notify.c, pvr_util.c, ss_pvl_wrappers.c.
Problem Description: A server has failed to establish a connection with another server. It may be the case that the other server is not running.
System Action: The server will most likely retry its attempt to connect to the other server.
Administrator Action: Investigate the reason why the other server is not running or why communication with the server fails. Most often the connection will be eventually established and no administrator action is necessary.

COMM0032 Call to hpss_RPCCloseConnection to close an RPC connection failed: <error details>.

Source Files Generating Error Message: gk_ShutDown.c, logc_cleanup.c, logd_cleanup.c, mvr_admmain.c, pvl_mm.c, pvr_notify.c, pvr_util.c.
Problem Description: A server's attempt to close its connection to another server has failed. This is not a serious error and can be considered informative in nature.
System Action: None
Administrator Action: None

COMM0033 Call to hpss_RPCUnregisterService to unregister RPC service failed: <error details>.

Source Files Generating Error Message: dmg_main.c, gk_ShutDown.c, logc_cleanup.c, logd_cleanup.c, map_Utils.c, mnt_ServerInit.c, mvr_admmain.c, nfs_Main.c, pvl_util.c, pvr_main.c, rtm_ReqList.c.
Problem Description: A server failed to unregister its service interface. This error is not serious and the error message can be considered to be informative in nature.
System Action: None
Administrator Action: If this error message appears multiple times, ensure that your system's security services are operating properly.

COMM0034 Call to hpss_RPCSetLoginCred to set <authentication type login credential failed: <error details>.

Source Files Generating Error Message: hpss_ServerUtils.c.
Problem Description: A server's attempt to add additional authentication mechanisms to the existing server login credential has failed.
System Action: The system will log this error message and then continue.
Administrator Action: Ensure that your system security mechanisms are functioning properly. If the error persists, contact your HPSS support representative.

COMM0035 Call to hpss_RPCFreeConnection to free RPC connection failed: <error details>.

Source Files Generating Error Message: gk_ShutDown.c, pvl_mm.c, pvr_notify.c, pvr_util.c.
Problem Description: A server's attempt to free the resources associated with a connection has failed. Freeing connections is most commonly done when a server is shutting down.
System Action: The server logs this message and then continues.
Administrator Action: If this error message is seen multiple times, ensure that your system's security services are operating properly.

COMM0037 Call to hpss_RPCServerListen to process RPC requests failed: <error details>.

Source Files Generating Error Message: core_Main.c, gk_Main.c, hpssd_Main.c, logc_ssm_thread.c, logd_ssm_thread.c, mnt_ServerInit.c, mvr_admmain.c, nfs_Main.c, pvl.c, pvr_main.c, ssm_sm_main.c.

Problem Description: A server's attempt to begin its RPC communication processing over its registered interface has failed.
System Action: The server will most likely crash.
Administrator Action: Restart the server if it has crashed. If the problem persists, ensure that the system's security services and DB2 are operating correctly.

COMM0038 Call to <routine name> failed with RPC runtime error: <error details>.

Source Files Generating Error Message: mvr_admmain.c, pvl_client.c, pvl_mm.c, pvl_pvr.c, pvr_notify.c, pvr_util.c, ssm_sm_adm_connect.c.
Problem Description: A server has encountered some sort of runtime error related to RPCs.
System Action: It is most likely that the server will continue.
Administrator Action: If the problem persists, ensure that the system's security services are operating correctly.

COMM0039 Call to hpss_SECGetApplCreds to get security registry information failed: <error details>.

Source Files Generating Error Message: av_Support.c, bfs_Acct.c, bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_CopyFile.c, bfs_Create.c, bfs_Migrate.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_Unlink.c, core_APIs.c, core_Connect.c, core_ManagedObj.c, core_ServerSetAttrs.c, dmg_admin.c, gk_ConnectPackage.c, hpssd_Main.c, logc_ServerSetAttrs.c, logd_LogFileSetAttrs.c, logd_ServerSetAttrs.c, mnt_Daemon.c, mnt_SSMApi.c, mps_CommonRoutines.c, mvr_admif.c, mvr_admrequest.c, nfs_Main.c, nfs_SSMApi.c, pvl_api.c, pvl_client.c, pvr_api.c, rtm_GetRequestEntries.c, ssm_sm_adm_register_sm.c.
Problem Description: A server's attempt to get credentials for one of its clients has failed.
System Action: The server will return an error to the client.
Administrator Action: None.

COMM0040 Call to hpss_SECCallerAuthorized to check client authorization for <client name> failed: <error details>.

Source Files Generating Error Message: av_Support.c, hpssd_Main.c, logc_ServerSetAttrs.c, logd_LogFileSetAttrs.c, logd_ServerSetAttrs.c, mvr_admif.c, mvr_admrequest.c, pvl_api.c, pvl_client.c, pvr_api.c, rtm_GetRequestEntries.c, ssm_sm_adm_register_sm.c.
Problem Description: A server has detected that a client has attempted to perform an activity that the client is not authorized to perform.
System Action: This inappropriate activity is duly noted in the logs.
Administrator Action: None.

COMM0041 Call to hpss_SECAudit to log an auditable event failed: <error details>.

Source Files Generating Error Message: av_Support.c, core_ManagedObj.c, core_ServerSetAttrs.c, dmg_admin.c, gk_AdminAPIs.c, gk_ConnectPackage.c,

gk_GKAPIs.c, logc_ServerSetAttrs.c, logd_LogFileSetAttrs.c, logd_ServerSetAttrs.c, mvr_admif.c, pvl_api.c, pvr_api.c.
Problem Description: A server's attempt to create a security audit log entry has failed.
System Action: The system attempts to log the fact that it was unable to create a security audit log entry.
Administrator Action: Ensure that the system's security services are operating correctly.

COMM0042 Call to hpss_RPCGetConnectionContext to get the connection context failed: <error details>.

Source Files Generating Error Message: av_Support.c, dmg_admin.c, gk_ConnectPackage.c, logc_ServerSetAttrs.c, logd_LogFileSetAttrs.c, logd_ServerSetAttrs.c, map_Utils.c, mnt_SSMApi.c, mvr_admif.c, mvr_admrequest.c, nfs_SSMApi.c, pvl_api.c, pvr_api.c, ssm_sm_api.c, ssm_sm_enter_api.c.
Problem Description: A server's attempt to obtain the connection context data for a newly connected client has failed.
System Action: This failure is duly noted in the logs and the server continues.
Administrator Action: Ensure that the system's security services are operating correctly.

COMM0043 Call to hpss_RPCMalloc to allocate memory failed.

Source Files Generating Error Message: gk_MiscPackage.c, map_Admin.c, mvr_admrequest.c, pvl_job.c.
Problem Description: A server's attempt to allocate more memory has failed. If this error is persistent, it indicates one of two situations: the system simply does not have enough available memory or a software bug is causing the server to allocate memory without bound.
System Action: This is a very fundamental error. The server will most likely crash.
Administrator Action: Restart the server. If the error is persistent, determine whether your system has sufficient memory and add more if not. Otherwise, contact IBM HPSS Support.

COMM0044 Call to hpss_ConnMgrInit to initialize a connection manager failed: <error details>.

Source Files Generating Error Message: av_lib_Server.c, pvl.c.
Problem Description: A server's attempt to create state for an instance of the connection manager has failed.
System Action: This failure is noted in the log and the server continues.
Administrator Action: None.

COMM0046 Call to hpss_ConnMgrGrabConn to grab a connection from a connection manager failed: <error details>.

Source Files Generating Error Message: dmg_admin.c, pvl_client.c.

Problem Description: A server's attempt to obtain connection information from the connection manager has failed.
System Action: The server logs the event, pauses for a moment, and then tries again.
Administrator Action: None.

COMM0047 Call to hpss_ConnMgrReleaseConn to release a connection from a connection manager failed: <error details>.

Source Files Generating Error Message: av_lib_Server.c, dmg_admin.c, pvl_client.c, ssm_sm_adm_connect.c.
Problem Description: A server's request to the connection manager to close a connection has failed.
System Action: The server logs the event, pauses for a moment, and then tries again.
Administrator Action: None.

COMM0052 Call to hpss_RPCGetMallocContext to get allocation context failed.

Source Files Generating Error Message: bfs_CopyData.c.
Problem Description: The Core Server's attempt to get a thread allocation context has failed.
System Action: The error is logged and an error is returned to the client.
Administrator Action: None.

COMM0053 Call to hpss_RPCSetMallocContext to set allocation context failed.

Source Files Generating Error Message: bfs_CopyData.c.
Problem Description: The Core Server's attempt to establish a thread allocation context has failed.
System Action: The event is logged and the server continues.
Administrator Action: None.

COMM0054 Call to hpss_SECInitAuthzVector failed: <error details>.

Source Files Generating Error Message: gk_Main.c, mnt_ServerInit.c, mvr_admmain.c.
Problem Description: A server's attempt to get the list of clients who are authorized to connect to it has failed.
System Action: This is a fundamental operation and so the server will most likely crash.
Administrator Action: Restart the server. If the problem persists, ensure that the system's security service is operating properly.

COMM0056 Call to hpss_SECGetCredsByName failed: <error details>.

Source Files Generating Error Message: map_Admin.c.
Problem Description: A server's attempt to build a credential that describes a client has failed.
System Action: The event is logged and an error is returned to the client.
Administrator Action: None.

COMM0057 Call to hpss_SECGetCredsByUid failed: <error details>.

Source Files Generating Error Message: mnt_ServerInit.c.
Problem Description: A server's attempt to obtain credentials for a user has failed.
System Action: The is a fundamental operation and the server will crash.
Administrator Action: Restart the server. Ensure that the system's security service is operating properly.

COMM0058 Call to hpss_SetSecondaryMechs to set security mechanism failed.

Source Files Generating Error Message: core_Init.c, ssm_sm_init.c.
Problem Description: A server's attempt to set the credentials for the secondary security mechanisms specified by its generic server configuration entry has failed.
System Action: The server/program experiencing the error condition will exit.
Administrator Action: If the server/program exits, restart it. Ensure that the system's security service is operating properly.

Chapter 5. Core Server Messages (CORE Series)

CORE0001 Cannot open %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: This error is seen if an open, or opendir attempt, fails to open the db2 primary log directory, or fails to open the db2 mirror log directory, or fails to open the db2 diagnostic log, or fails to open the db2 log data file.
System Action: An alarm message is sent to the Alarms and Events screen. Metadata space monitoring will not be performed.
Administrator Action: Ensure that all of the above mentioned log files are correctly configured. Call HPSS support if needed.

CORE0002 Configuration information missing: %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The call to CheckLogCondition has not been supplied a pathname to the db2 mirror log file. HPSS requires that a db2 mirror log file be used.
System Action: The metadata monitoring routines will endlessly complain.
Administrator Action: Ensure that a db2 mirror log file is properly configured. Call HPSS support if needed.

CORE0003 Call to hpss_SECInitAuthzVector failed.

Source Files Generating Error Message: core_Init.c.
Problem Description: The call to hpss_SECInitAuthzVector routine to build the authorized caller list failed.
System Action: Log this error message and terminate the Core Server.
Administrator Action: Examine error codes to determine the specific cause of failure. Call HPSS support if needed.

CORE0004 DB2 Mirror Log file %s is missing.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The Core Server routines that periodically run ensure that all is well with the Core Server’s metadata have detected that the db2 mirror log file is missing.
System Action: The metadata monitoring routines will endlessly complain.
Administrator Action: Ensure that a db2 mirror log file is properly configured. Call HPSS support if needed.

CORE0005 Call to hpss_SECGetLocalRealm failed.

Source Files Generating Error Message: core_Init.c.

Problem Description: The call to hpss_SECGetLocalRealm failed to get the local realm information.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes in an attempt to determine the specific cause of failure. Call HPSS support if needed.

CORE0006 Call to pthread_cond_init failed.

Source Files Generating Error Message: core_InitBFS.c, bfs_Open.c.
Problem Description: Call to pthread_cond_init to initialize a condition variable failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

CORE0007 Call to hpss_RPCInitConnections failed: %s.

Source Files Generating Error Message: core_Init.c.
Problem Description: Call to hpss_InitConnections routine to initialize the HPSS connection manager failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

CORE0008 Could not initialize Class Of Service memory cache.

Source Files Generating Error Message: core_Init.c.
Problem Description: Initializing the internal Class of Server cache failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

CORE0009 Could not initialize Hierarchy memory cache.

Source Files Generating Error Message: core_Init.c.
Problem Description: Initialization of the internal cached hierarchy table failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

CORE0010 Call to pthread_mutex_init failed.

Source Files Generating Error Message: core_Init.c, core_InitBFS.c.
Problem Description: Call to pthread_mutex_init to initialize a mutex variable failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

CORE0011 Received a %s signal in core_SignalThread.

Source Files Generating Error Message: core_Main.c.
Problem Description: The Core Server received the indicated signal in it's signal processing thread.
System Action: The signal is trapped and the Core Server is terminated.
Administrator Action: For SIGQUIT, SIGTERM, SIGHUP, this indicates a normal termination request. For SIGDANGER this normally indicates a system that is low on paging space.

CORE0012 Could not initialize Storage Class memory cache.

Source Files Generating Error Message: core_Init.c.
Problem Description: Initialization of the internal cached storage class table failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

CORE0013 DB2 log error. Look at line %d in %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The metadata space monitoring routines read through the db2diag.log file looking for a specific class of errors - they are looking for any of the family of messages that begin with "ADM18". At least one such message has been found and is being reported.
System Action: This error is reported.
Administrator Action: Ensure that db2 is operating properly. Examine the relevant db2 logs for errors. Call HPSS support if needed.

CORE0014 Malloc failed.

Source Files Generating Error Message: core_Rtm.c, bfs_LogPath.c, ss_diskio.c, ss_tpv.c, ss_util.c.
Problem Description: A malloc system call to allocate space failed.
System Action: Log this error message and terminate server.
Administrator Action: Contact HPSS support. This should not happen and may indicate an HPSS software problem.

CORE0015 Core Server startup params are MaxActiveCopyIO %d, MaxTotActiveIO %d, MaxThrds %d.

Source Files Generating Error Message: core_InitBFS.c.
Problem Description: There is no problem. This informational message is logged at startup time to provide the values of the indicated startup parameters.
System Action: Log this error message.
Administrator Action: None.

CORE0016 mm_FreeAutoTranHandle failed.

Source Files Generating Error Message: core_MDSpaceMonitor.c, core_Utils.c.

Problem Description: A call to the mm_FreeAutoTranHandle routine to free an auto tran handle to the metadata database failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine error codes to determine specific cause of failure. This is an unexpected situation and will likely require contacting HPSS support.

CORE0017 Can’t seek to %s in local file %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: One of the metadata monitoring routines is attempting to seek to the end of a db2 log file or it is attempting to seek to the current position in a log file. The seek attempt has failed.
System Action: This error message is logged in an attempt to alert the system administrator that db2 may be having difficulty with its log files.
Administrator Action: Ensure that the db2 log files are being processed properly. Call HPSS support if needed.

CORE0018 Can’t read local file %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The metadata monitoring routine CheckDB2DiagLog has attempted to read the position information from the db2diag.log. This read attempt has failed.
System Action: The Core Server logs this error message and then continues.
Administrator Action: Ensure that the db2 log files are being processed correctly.

CORE0019 DB2 Primary and Secondary log files don’t match.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The metadata monitoring routines are attempting to ensure that the required db2 log files are present. The CheckLogCondition function cannot find matching primary and mirror log names.
System Action: The Core Server will complain endlessly about this problem. HPSS requires that primary and mirrored db2 log files be used.
Administrator Action: Ensure that the db2 log files are present and properly configured. Call HPSS support if needed.

CORE0020 Call to pthread_create failed.

Source Files Generating Error Message: core_ConnectBFS.c, core_ExTrans.c, core_Log.c, core_Utils.c.
Problem Description: Attempt to create a pthread failed.
System Action: Log this error message and terminate server.
Administrator Action: Examine error codes to determine the specific cause of this failure. Call HPSS support if needed.

CORE0021 The security realm Id returned is '0' - not allowed.

Source Files Generating Error Message: core_Init.c.

Problem Description: When looking up the Realm ID for the local realm, an invalid value of 0 was returned.
System Action: Log this message and then terminate the Core Server.
Administrator Action: Ensure that HPSS is configured properly. Correct the configuration as needed.

CORE0022 Core Server Shutdown Complete.

Source Files Generating Error Message: core_Shutdown.c.
Problem Description: This is one of the messages that is routinely logged while the Core Server is shutting down. The intent of this message is to reassure the administrators that the Core Server is "making progress" towards its shutdown goal.
System Action: The Core Server continues to shut down.
Administrator Action: No action is required.

CORE0023 Error in call to pthread_cond_broadcast.

Source Files Generating Error Message: core_Log.c, bfs_Asynch.c, bfs_Misc.c, bfs_Stage.c, ss_pvl_wrappers.c.
Problem Description: A call to pthread_cond_broadcast failed.
System Action: Log this error message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0024 Error in call to pthread_cond_signal.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c, bfs_Batch.c, bfs_BitfileSetAttrs.c, bfs_Clear.c, bfs_CopyCommon.c, bfs_GK.c, bfs_LockRtns.c, bfs_Migrate.c, bfs_Purge.c, bfs_Stage.c, bfs_Unlink.c, bfs_WriteTape.c, ss_diskio.c, ss_pvl.c, ss_tpv.c.
Problem Description: A call to pthread_cond_signal failed.
System Action: Log this error message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0025 Error in call to pthread_cond_(timed)wait.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c, core_SSM.c, core_Utils.c, bfs_Asynch.c, bfs_Batch.c, bfs_CopyCommon.c, bfs_GK.c, bfs_LockRtns.c, bfs_Migrate.c, bfs_Misc.c, bfs_Stage.c, ss_diskio.c, ss_dpv_cache.c, ss_dss_cache.c, ss_dvv_cache.c, ss_locks.c, ss_pvl_mount.c, ss_pvl_wrappers.c, ss_session.c, ss_sscommon.c, ss_tmap_cache.c, ss_tpv.c, ss_tpv_cache.c, ss_tss_cache.c, ss_tvv_cache.c, ss_vvcommon.c.
Problem Description: A call to pthread_cond_wait with a timeout failed.
System Action: Log this error message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0026 Error in writing security audit record.

Source Files Generating Error Message: core_Log.c, bfs_Acct.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_CopyFile.c, bfs_Create.c, bfs_Migrate.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_Stage.c, bfs_Unlink.c.
Problem Description: A call to hsec_Audit to write an audit record to the audit log failed.
System Action: Log message and continue processing current request without logging the audit record.
Administrator Action: Examine the specific error to determine the cause of the failure and correct. If needed, contact HPSS support.

CORE0028 Request entry information.

Source Files Generating Error Message: core_ServerGetAttrs.c, core_ServerSetAttrs.c, bfs_Acct.c, bfs_Asynch.c, bfs_Batch.c, bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_Clear.c, bfs_Close.c, bfs_CopyFile.c, bfs_Create.c, bfs_Migrate.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_Read.c, bfs_Stage.c, bfs_Unlink.c, bfs_Write.c, ss_core_api.c.
Problem Description: No problem. Informative message indicating a particular RPC was called.
System Action: Log this error message.
Administrator Action: If you do not want to log this message, turn off REQUEST logging in the server.

CORE0029 Request exit information.

Source Files Generating Error Message: core_ServerGetAttrs.c, core_ServerSetAttrs.c, bfs_Asynch.c, bfs_Batch.c, bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_Clear.c, bfs_Close.c, bfs_CopyFile.c, bfs_Create.c, bfs_Migrate.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_Read.c, bfs_Stage.c, bfs_Unlink.c, bfs_Write.c, ss_core_api.c.
Problem Description: No problem. Informative message indicating exit from a particular RPC.
System Action: Log this error message.
Administrator Action: If you do not want to log this message, turn off REQUEST logging in the server.

CORE0030 Storage Class %d definition missing.

Source Files Generating Error Message: core_Init.c.
Problem Description: The Core Server is attempting to initialize the storage class information for a subsystem, but has encountered an error.
System Action: The Core Server logs the above error message which indicates the offending storage class, and then the Core Server terminates.
Administrator Action: Carefully examine the configuration data associated with the indicated storage class. Correct the error and then try again.

CORE0031 SOID create failed.

Source Files Generating Error Message: core_APIs.c, core_ExTrans.c, core_Log.c, bfs_Create.c.
Problem Description: A call to SOID_Create to create a new object identifier failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error to determine the cause of the failure and correct. If needed, contact HPSS support.

CORE0032 Could not get host address and set address structure.

Source Files Generating Error Message: ss_dpv.c, ss_sscommon.c.
Problem Description: A call to decrypt the authorization ticket failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error to determine the cause of the failure and correct. If needed, contact HPSS support.

CORE0033 Error in creating uuid.

Source Files Generating Error Message: bfs_Batch.c, bfs_Open.c.
Problem Description: A call to uuid_create to create a uuid failed.
System Action: Log this error message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0034 Error return from uuid_equal.

Source Files Generating Error Message: core_ExTrans.c, core_Init.c, core_Log.c, bfs_Batch.c, bfs_Misc.c, bfs_WriteDisk.c.
Problem Description: A call to uuid_equal to compare uuids failed.
System Action: Log this error message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0035 Error in locking mutex.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: Call to pthread_mutex_lock failed.
System Action: Log this error message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0036 No WaitSet slot available.

Source Files Generating Error Message: core_Rtm.c.
Problem Description: No wait slot is available in the rtmu wait list. The first one in the list is reused.
System Action: None, just an event message.
Administrator Action: Contact HPSS support. This is an informative message that should be trapped in HPSS integration testing. It would indicate a needed change to the length of the rtmu list structure. This should not be seen in a production system.

CORE0037 Hierarchy %d definition missing.

Source Files Generating Error Message: core_Init.c.

Problem Description: The Core Server is attempting to initialize the hierarchies for this subsystem and has discovered an inconsistency.
System Action: The Core Server logs the above error message which indicates the hierarchy that is in error. The Core Server then terminates.
Administrator Action: Fix or supply the indicated hierarchy and then try to start the Core Server.

CORE0038 Call to hpss_GetHostByName failed.

Source Files Generating Error Message: core_Utils.c, bfs_CopyCommon.c.
Problem Description: A call to gethostbyname function to obtain host networking information failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error to determine the cause of the failure. Contact HPSS support if needed.

CORE0039 Error returned by %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c, core_SSM.c.
Problem Description: Generic message indicating an unexpected return from a called function.
System Action: The Core Server halts.
Administrator Action: Examine the specific information in the log message to identify the cause of the failure. Contact HPSS support if needed.

CORE0041 Statebits set not supported %#x %#x.

Source Files Generating Error Message: core_ServerSetAttrs.c.
Problem Description: An attempt to set one or more server state bits which are not settable.
System Action: Log this error message and terminate the operation.
Administrator Action: Contact HPSS support. This should not happen in an HPSS production system.

CORE0043 Core Server is reinitializing.

Source Files Generating Error Message: core_ServerSetAttrs.c.
Problem Description: The Core Server is going through a reinitialization process.
System Action: Log this error message.
Administrator Action: None. Just an informative message.

CORE0044 Class Of Service %d definition missing.

Source Files Generating Error Message: core_Init.c.
Problem Description: The Core Server is attempting to initialize its COS cache with information it has read from its specific configuration record. Unfortunately an error has occurred while doing this.
System Action: The Core Server logs this error message and then terminates.

Administrator Action: Ensure that COS configuration data is available for the indicated COS and then restart the Core Server. It may be necessary to contact HPSS support for assistance.

CORE0045 Error - invalid %s.

Source Files Generating Error Message: core_APIs.c, core_ServerSetAttrs.c, core_Utils.c.
Problem Description: A Core Server API was called with invalid parameters.
System Action: Log this error message and terminate the operation.
Administrator Action: Contact HPSS support. This should not happen in a production system.

CORE0046 Core Server shutting down - waiting for client I/O to finish - Total: %d, Migration: %d, Time: %d.

Source Files Generating Error Message: core_Shutdown.c.
Problem Description: The Core Server is waiting for the termination of all active IO before completing a shutdown request.
System Action: Log this error message.
Administrator Action: The server will wait for up to 3 minutes for IO to complete. If you want to terminate immediately issue a FORCE HALT to the server.

CORE0047 Call to hpss_RPCUnregisterService failed.

Source Files Generating Error Message: core_Shutdown.c.
Problem Description: A call to unregister the server interface failed.
System Action: Log this error message and continue shutdown.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0048 Reinitialization of COS failed.

Source Files Generating Error Message: core_ServerSetAttrs.c.
Problem Description: Reinitialization of the cached COS table failed during server reinitialization.
System Action: Log this error message and bypass the failed part of the reinit by using existing cached information.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0049 Core Server shutting down - please be patient.

Source Files Generating Error Message: core_ServerSetAttrs.c, core_Shutdown.c.
Problem Description: The Core Server has received a shutdown request and is terminating.
System Action: Log this error message.
Administrator Action: None required. This is an informative message.

CORE0050 Core Server halting.

Source Files Generating Error Message: core_ServerSetAttrs.c, core_Shutdown.c.
Problem Description: The Core Server is terminating based on a force halt request.
System Action: Log this error message.
Administrator Action: None. Informative message.

CORE0051 Error allocating MM transaction handle.

Source Files Generating Error Message: core_Init.c, core_InitBFS.c, core_Log.c, core_MDSpaceMonitor.c, core_ServerSetAttrs.c, bfs_BitfileGetAttrs.c, bfs_COS.c, bfs_CheckpointSeg.c, bfs_Clear.c, bfs_CopyData.c, bfs_DiskMap.c, bfs_Migrate.c, bfs_Misc.c, bfs_Open.c, bfs_ReadData.c, bfs_SClass.c, bfs_SegmentsCache.c, bfs_Stage.c, bfs_WriteDisk.c, bfs_WriteTape.c, ss_io.c.
Problem Description: An attempt to allocate a transaction handle to be used in metadata access operations failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0052 Error starting MM transaction.

Source Files Generating Error Message: core_APIs.c, core_ExTrans.c, core_Log.c, bfs_Misc.c.
Problem Description: Error in calling mm_StartTransaction to start up a metadata transaction.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0053 Error ending MM transaction.

Source Files Generating Error Message: core_APIs.c, core_ExTrans.c, core_Log.c, bfs_Acct.c, bfs_CheckpointSeg.c, bfs_Misc.c.
Problem Description: A call to mm_EndTransaction to end a metadata transaction failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0054 Invalid connection handle.

Source Files Generating Error Message: core_APIs.c, core_ManagedObj.c, core_ServerSetAttrs.c, ss_session.c, ss_util.c.
Problem Description: Connection handle provide on a server RPC is invalid.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0055 Call to pthread_mutex_destroy failed

Source Files Generating Error Message: bfs_Batch.c, bfs_BfCache.c, bfs_BfOpenContext.c, bfs_CopyBatchMigr.c, bfs_CopyData.c, bfs_LockRtns.c, bfs_Migrate.c, bfs_ReadData.c, core_ConnectBFS.c, core_Rtm.c
Problem Description: A failure occurred in the multi-threading library. This is likely an indication of a bug in HPSS.
System Action: The Core Server will crash.
Administrator Action: Contact HPSS Support.

CORE0056 Call to pthread_cond_destroy failed

Source Files Generating Error Message: bfs_Batch.c, bfs_BfCache.c, bfs_CopyBatchMigr.c, bfs_CopyData.c, bfs_LockRtns.c, bfs_Migrate.c, core_Utils.c, ns_ObjCachePackage.c
Problem Description: A failure occurred in the multi-threading library. This is likely an indication of a bug in HPSS.
System Action: The Core Server will crash.
Administrator Action: Contact HPSS Support.

CORE0057 Call to add a transaction callback failed.

Source Files Generating Error Message: core_Log.c, bfs_BitfileSetAttrs.c, bfs_Unlink.c, ss_dmap.c, ss_dpv.c, ss_dpv_cache.c, ss_dss_cache.c, ss_dvv_cache.c, ss_mapcommon.c, ss_stats.c, ss_tmap.c, ss_tmap_cache.c, ss_tpv.c, ss_tpv_cache.c, ss_tss_cache.c, ss_tvv_cache.c.
Problem Description: A call to add a transaction callback to be processed at the end of the associated transaction failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0058 Call to gethostname failed.

Source Files Generating Error Message: bfs_CopyCommon.c.
Problem Description: A call to the gethostname routine to obtain local host information failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0059 Call to pthread_join failed.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c.
Problem Description: A call to the pthread_join routine to synchronize the existing thread with activity in associated threads failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0060 Call to pthread_get_expiration failed.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c, bfs_Migrate.c.
Problem Description: A call to pthread_get_expiration_np to set up a timer failed.
System Action: Log message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0061 Error generating hash key from uuid.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c.
Problem Description: A call to uuid_hash to generate a hash key from a uuid failed.
System Action: Log message and terminate the server.
Administrator Action: Likely HPSS software problem. Contact HPSS support.

CORE0062 Core Server shutting down - doing final accounting.

Source Files Generating Error Message: core_Shutdown.c.
Problem Description: The Core Server is shutting down and this is an informative message telling everyone that it is going to try to update the accounting statistics before it terminates.
System Action: The Core Server will terminate.
Administrator Action: No action is required.

CORE0063 Core Server shutting down - unregistering services - closing connections to other servers.

Source Files Generating Error Message: core_Shutdown.c.
Problem Description: The Core Server is shutting down and this is an informative message telling everyone that the Core Server is about to unregister its interfaces.
System Action: The Core Server will terminate.
Administrator Action: No action is required.

CORE0064 Error reading core server specific config record.

Source Files Generating Error Message: core_Init.c, core_ServerSetAttrs.c.
Problem Description: Attempt to read the Core Server specific configuration record failed at startup.
System Action: Log this error message and terminate the server.
Administrator Action: Examine the log for the associated DEBUG message which will provide details on the associated metadata read failure. Contact HPSS support if needed.

CORE0065 Core Server aborting in core_ServerAbort.

Source Files Generating Error Message: core_Shutdown.c.
Problem Description: The Core Server is terminating due to a problem the server has detected.
System Action: Log this error message and terminate the server.

Administrator Action: This is an informative message. Additional messages will be logged which give the details of why the server has terminated.

CORE0066 Request is not supported.

Source Files Generating Error Message: core_ServerSetAttrs.c.
Problem Description: An request to set a server administration option attempted to set an option that the server does not support.
System Action: Log this error message and terminate the request.
Administrator Action: This should not happen in an HPSS production system. Contact HPSS support.

CORE0067 Error getting space usage for database %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The monitor thread failed to get information from the data base in terms of space used and free.
System Action: Log this error message.
Administrator Action: Examine the specific error code to determine the cause of the failure. Contact HPSS support if needed.

CORE0068 Space usage in tablespace %s of database %s has exceeded critical threshold of %d%%; usage at %d%%.

Source Files Generating Error Message: core_Log.c, core_MDSpaceMonitor.c.
Problem Description: The amount of space used in the indicated tablespace has exceeded the critical threshold.
System Action: Log this error message and continue.
Administrator Action: This indicates that additional space needs to be added to the indicated tablespace.

CORE0069 Space usage in tablespace %s of database %s has warning warning threshold of %d%%; usage at %d%%.

Source Files Generating Error Message: core_Log.c, core_MDSpaceMonitor.c.
Problem Description: The amount of space used in the indicated tablespace has exceeded the warning threshold.
System Action: Log this error message.
Administrator Action: This indicates that additional space needs to be added to the indicated tablespace.

CORE0070 A bit in BitVector %s (0x%08x%08x) is not supported. %s.

Source Files Generating Error Message: core_ManagedObj.c.
Problem Description: A request to either set or get information about attributes of the core managed object has provided an invalid bit selection vector which references invalid attributes.
System Action: Log this error message and terminate the request.

Administrator Action: This should not happen in an HPSS production system, Contact HPSS support.

CORE0071 MM error, detailed info = %s.

Source Files Generating Error Message: core_Log.c.
Problem Description: This message provides detailed MM diagnostic information in the from of DEBUG message.
System Action: Log this error message.
Administrator Action: This message along with an associated ALARM message provides detailed information on an MM failure. Use this info to diagnose the cause of the MM failure. Contact HPSS support if needed.

CORE0072 Failed to start thread to monitor metadata space usage.

Source Files Generating Error Message: core_Main.c, core_ServerSetAttrs.c.
Problem Description: Startup of the background thread that monitor metadata space usage failed.
System Action: Log this error message and terminate the server.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

CORE0073 hpss_MaskCreate failed.

Source Files Generating Error Message: core_Macros.h.
Problem Description: A call to the macro CORE_CREATE_MASK has failed.
System Action: The Core Server halts.
Administrator Action: Examine the specific error code for the cause of the failure. Collect all of the relevant log file information. Contact HPSS support if needed.

CORE0074 Sanity check error, %s.

Source Files Generating Error Message: core_InitSS.c, core_SSM.c, ss_diskio.c, ss_diskspace.c, ss_dmap.c, ss_dpv_cache.c, ss_dss.c, ss_dss_cache.c, ss_dvv_cache.c, ss_io.c, ss_locks.c, ss_mapcommon.c, ss_pvcommon.c, ss_pvl_mount.c, ss_pvl_wrappers.c, ss_session.c, ss_sscommon.c, ss_stats.c, ss_tmap.c, ss_tmap_cache.c, ss_tpv.c, ss_tpv_cache.c, ss_tss.c, ss_tss_cache.c, ss_tvv.c, ss_tvv_cache.c, ss_util.c, ss_vvcommon.c.
Problem Description: A code check has caught a situation that should not happen in the server.
System Action: Log this error message and terminate the server.
Administrator Action: This should not happen in a production system. Contact HPSS support.

CORE0075 Entering %s.

Source Files Generating Error Message: core_SSM.c, ss_dpv.c, ss_dvv.c, ss_pvl.c, ss_pvl_wrappers.c, ss_session.c, ss_sscommon.c, ss_tpv.c.
Problem Description: Informative message indicating entry into an RPC routine.

System Action: Log this error message.
Administrator Action: None.

CORE0076 Exiting %s.

Source Files Generating Error Message: core_SSM.c, ss_dpv.c, ss_dvv.c, ss_pvl.c, ss_pvl_wrappers.c, ss_session.c, ss_sscommon.c, ss_tpv.c.
Problem Description: Informative message indicating exit from an RPC routine.
System Action: Log this error message.
Administrator Action: None.

CORE0077 Error initializing special change owner list.

Source Files Generating Error Message: core_Init.c.
Problem Description: A message from the core logging routine indicating that a common log message has an invalid number which exceeds the range for allowed messages.
System Action: Log this error message.
Administrator Action: This should not happen in an HPSS production system. Contact HPSS support.

CORE0078 Number of special change owner users exceeds max.

Source Files Generating Error Message: core_Init.c.
Problem Description: During initialization the Core Server gets the list of *special* users and puts this list into a global variable. However, the number of entries in this list is longer than the space allocated for the list.
System Action: The Core Server truncates the list of *special* users to the number of entries that it has allocated. The Core Server continues.
Administrator Action: You should change the value in environment variable HPSS_SPEC_USER_LIST_LENGTH to match the number of special users you wish to support.

CORE0079 RPC failure, detailed err = %s.

Source Files Generating Error Message: bfs_GK.c.
Problem Description: The Core Server has attempted to interact with the Gatekeeper, but has received an RPC error.
System Action: The Core Server returns an error and continues.
Administrator Action: Ensure that the Gatekeeper is running correctly.

CORE0080 Running with restricted user file: %s.

Source Files Generating Error Message: core_Init.c.
Problem Description: This is an informative message that is logged during Core Server initialization. One form of the message may inform you that no restricted user file has been configured, and the other form may tell you the name of the restricted user file.
System Action: The Core Server logs this informative message.

Administrator Action: None required. If the administrator was expecting a restricted user file to be configured and instead sees a message informing them that no restricted user file is configured, they should take appropriate action.

CORE0081 Error processing restricted user file: %s.

Source Files Generating Error Message: core_Init.c.
Problem Description: This error message is used to cover several errors that might occur while processing the restricted user file. This message is logged if the Core Server is unable to stat the restricted user file, if the restricted user file is not owned by root, if the restricted user file is writable by group or other, if the open call fails, if an error occurs while reading the file, if no users are listed in the file, if the syntax of a line in the file is invalid, if an error occurs while parsing any line in the file, if an invalid user name is detected in the file, or if an error occurs while attempting to look up any of the user information.
System Action: For many of these errors the Core Server halts, for the others an error message is logged and the Core Server continues.
Administrator Action: If the Core Server halts, closely examine the error message and then make the indicated corrections to the restricted user file.

CORE0082 Error in setting up accounting control info: %s.

Source Files Generating Error Message: core_InitBFS.c.
Problem Description: During initialization the Core Server obtains, or derives, the highest "Unique" value from the account log records. It does this by first counting the number of records in the account log file, and then, if any records are found, reading the highest Unique value from these records. If an error should occur while either counting the records, or reading the maximum Unique value, this error message is logged.
System Action: The Core Server will halt.
Administrator Action: Ensure that db2 has been started and is running properly. Call HPSS support if needed.

CORE0083 COS change set up error: %s.

Source Files Generating Error Message: core_InitBFS.c.
Problem Description: During initialization the Core Server determines the number of streams that will be used to perform change COS operations. It derives this number by first counting the number of records in the BFS COS Change table, and then obtaining the the maximum stream count value from the records in the BFS COS Change table. However, if an error occurs during either of these operations, this error message is logged. In addition, a variation of this message is logged if, after determining the stream count, the Core Server decides to reset this stream count value.
System Action: If the Core Server detects an error while counting the number of records in the BFS Change COS table, or while determining the maximum value of the stream Id, the Core Server will halt. However, if it is simply reseting the stream count value, it will continue.

Administrator Action: If the Core Server halts, ensure that db2 is running and behaving properly. Call HPSS support if needed.

CORE0084 Tape aggregation on, adjusting open file cache: %s.

Source Files Generating Error Message: core_InitBFS.c.
Problem Description: During initialization the Core Server has detected that tape aggregation has been selected, and now it is determining the number of open files needed, and it is determining the maximum number of open files allowed for aggregation. This is an informational message telling the administrator these values.
System Action: The Core Server logs the appropriate message and continues.
Administrator Action: No action is needed.

CORE0085 Log message index out of range.

Source Files Generating Error Message: core_Log.c.
Problem Description: It has been determined that the message index in a call to core_LogMsg is out of range.
System Action: The Core Server logs this message and continues.
Administrator Action: Collect the appropriate log information and contact HPSS support. This is not a serious problem, but this information will help to correct it.

CORE0086 Database %s %s is missing.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: This log message is generated by the metadata monitoring subsystem whenever that subsystem detects that a db2 view, constraint, or trigger is missing.
System Action: The Core Server halts.
Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE0087 Database %s %s is inactive.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: This log message is generated by the metadata monitoring subsystem whenever that subsystem detects that a db2 view, or trigger is inactive.
System Action: The Core Server halts.
Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE0088 Database %s %s table name is wrong.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: This log message is generated by the metadata monitoring subsystem whenever that subsystem detects that a db2 table name, associated with a constraint or a trigger, is wrong.
System Action: The Core Server halts.

Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE0089 Database constraint %s delete rule is wrong.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: This log message is generated by the metadata monitoring subsystem whenever that subsystem detects that a db2 delete rule is wrong.
System Action: The Core Server halts.
Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE0090 Database trigger %s event is wrong.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: This log message is generated by the metadata monitoring subsystem whenever that subsystem detects that a db2 trigger event is wrong.
System Action: The Core Server halts.
Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE0091 Database schema errors forcing Core Server shutdown.

Source Files Generating Error Message: core_Init.c, core_MDSpaceMonitor.c.
Problem Description: This message is logged whenever the Core Server schema checking function, core_CheckSchema returns an error.
System Action: The Core Server halts.
Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE0092 Unable to read schema element information for %s.

Source Files Generating Error Message: core_MDSpaceMonitor.c.
Problem Description: The Core Server received an error when it attempted to read one of the following: the config (cfg) views, the subsys views, the subsys constraints, or the subsys triggers.
System Action: The Core Server halts.
Administrator Action: The administrator must determine why db2 is not properly configured. Call HPSS support if needed.

CORE1001 The client supplied PathName is too long. The maximum length allowed is %d. %s.

Source Files Generating Error Message: ns_Create.c, ns_GetAttrs.c, ns_Link.c, ns_Rename.c, ns_SetAttrs.c.
Problem Description: The upper limit on the length of PathNames in HPSS is defined by the constant HPSS_MAX_PATH_NAME (1028). This length includes the NIL at the end of the PathName. Apparently the PathName supplied by this client exceeds this length.

System Action: The incident is logged and the HPSS_ENAMETOOLONG error is returned to the client.
Administrator Action: None.

CORE1002 The object read from the database was expected to be the parent directory in %s.

Source Files Generating Error Message: ns_Create.c, ns_Link.c, ns_Rename.c.
Problem Description: The Core Server has attempted to read the parent directory for a client supplied object. However the object read from the database was not a directory. Perhaps the object handle (if any) supplied by the client was not the correct, or intended, object handle.
System Action: The incident is logged and an error is returned.
Administrator Action: None.

CORE1003 Client with UID %d who is not a TrustedUser or the owner of object 0x%08x %08x attempted to change the GroupObj in %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: An attempt was made to change an object's GroupObj ACL entry. However the user who attempted to perform this change is neither a TrustedUser nor the owner of the object. This is not allowed.
System Action: The error is logged and the Core Server continues.
Administrator Action: If the error persists, it may be worth finding out why this user, whose UID is given in the error message, is repeatedly attempting to perform this illegal operation.

CORE1004 An attempt was made to use either the name . or .. during an object creation or a rename operation in %s.

Source Files Generating Error Message: ns_Create.c, ns_Rename.c.
Problem Description: A attempt was made to create an object named either '.' or '..', an attempt was made to rename '.' or '..', or an attempt was made to rename an existing object to either the name '.' or '..'. The names '.' and '..' have special meanings and cannot be used in these operations.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1005 The BitfileId supplied to the <API name> API is all zeros. It should not be.

Source Files Generating Error Message: ns_CoreAPIs.c
Problem Description: A blank Bitfile ID has been provided to the indicated API. However, this API requires a valid Bitfile ID in order to perform the task at hand.
System Action: The error is logged and the API fails to complete the requested task.
Administrator Action: Contact HPSS Support.

CORE1006 The RealmId field must be zero, not %d, in ACL entries of type AnyOther, AnyOtherDelegate, MaskObj, and Unauthenticated in %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: Whenever ACL entries of type AnyOther, AnyOtherDelegate, MaskObj, or Unauthenticated are sent to the Core Server, the RealmId field of the ACL entry must be zero. Apparently the RealmId field in an ACL entry of one of these types was non zero.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1007 Could not find a %s directory entry, but there are %d other records. Will attempt to create a new %s directory record in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server could not find the RootOfRoots entry (/). The only time this should ever happen is when the Core Server initializes a completely empty database. However, the Core Server did detect other entries in the NSObject Table. This should never happen.
System Action: The error is logged and the Core Server continues.
Administrator Action: Contact HPSS support. This inconsistency must be reconciled.

CORE1008 %s is creating and initializing NEW %s record 0x%08x%08x.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: While initializing, the Core Server discovered that it had to make a new FilesetAttrs record. This is an informative message telling of this creation.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1009 Illegal ObjRecord type (%d) was passed to %s.

Source Files Generating Error Message: ns_Create.c.
Problem Description: The Core Server performed a sanity check on the Type field of an Object record and discovered a major inconsistency.
System Action: Core Server halts.
Administrator Action: Ensure that db2 is running properly and then restart the Core Server.

CORE1010 A File object can only have an Object ACL. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server performs a consistency check to ensure that the Type of the requested ACL is consistent with the type of the object. In this particular case it is insuring that the Type of the ACL is Object. It can do this because it knows that the Type of the object is File.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1011 Tried to delete ACL entry type %d from the ObjectACL on object 0x%08x %08x. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: Certain Object ACLs are required to contain certain ACL entries. In this case a client attempted to delete one of these required ACL entries.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1012 Illegal OptionFlags (0x%08x) parameter passed to %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: Some APIs have an OptionFlags parameter. The bits turned on in the OptionFlags determine what actions the API will perform. The Core Server tested the bits in this OptionFlags parameter and discovered that one or more of the bits were illegal.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1013 Error %d (%s) from MMLib routine %s in function %s at line %d. %s.

Source Files Generating Error Message: ns_MMLibPackage.c.
Problem Description: All calls to MMLib from the Name Service are processed by a single routine. This routine fills in the fields in the above message with the data appropriate for the detected error.
System Action: Core Server may halt or it may continue.
Administrator Action: If the Core Server has halted, collect the relevant data from the local HPSS log and then restart it.

CORE1014 ACLType %d can only be used with a Directory or a FilesetRoot object. Not an object of type %d. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: A client has asked to receive an ACL of Type Initial Container or Initial Object. ACLs of these types can only be associated with either a Directory or a FilesetRoot. Apparently the client has requested either an Initial Container or an Initial Object ACL for an object whose type is neither Directory or FilesetRoot.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1015 The function %s only operates on IC and IO ACLs.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server has an internal function that only operates on Initial Container or Initial Objects ACLs. Apparently the input ACL was neither of these.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1016 **Initialization error. The call to hpss_Getenv failed to find environment variable %s in %s.**

Source Files Generating Error Message: core_InitNS.c.
Problem Description: During initialization the Core Server assumes the existence of several environment variables. One or more of these environment variables were missing.
System Action: The Core Server halts.
Administrator Action: Ensure that the environment variable mentioned in the error message has been set. Restart the Core Server. If the error persists contact HPSS Support.

CORE1017 **Attempt made to change to illegal fileset Type %d in fileset %s in %s.**

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An attempt was made to change the fileset Type of the indicated fileset to an illegal type. Can’t do that.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1018 **Could not find a DotDot directory entry, but there are %d 'other' records. Will attempt to create a new DotDot directory record in %s.**

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server could not find the DotDot (..) directory entry in the RootOfRoots (/) fileset. The only time this should ever happen is during a cold start. However the Core Server does not think this is a cold start because it has discovered other objects in the NSObject table. The Core Server will attempt to fix this situation by creating a new DotDot directory.
System Action: The error is logged and the Core Server continues.
Administrator Action: Contact HPSS Support.

CORE1019 **Trouble establishing the RPC connection in %s.**

Source Files Generating Error Message: ns_CredsPackage.c.
Problem Description: The Core Server attempted to establish a connection to the client, but got a *bad connection* error.
System Action: The error is logged and the Core Server continues.
Administrator Action: Ensure that your security mechanism is running properly.

CORE1020 **Got error %d trying to make an RPC connection in %s.**

Source Files Generating Error Message: ns_CredsPackage.c.
Problem Description: The Core Server attempted to establish a connection to the client, but got the indicated error.
System Action: The error is logged and the Core Server continues.
Administrator Action: Depending on the specific error, check your security mechanisms.

CORE1021 There is no connection Data in the connection context in %s.

Source Files Generating Error Message: ns_CredsPackage.c.
Problem Description: The Core Server attempts to pass the client's credentials down to lower layer routines, but something has apparently gone amiss during this attempt.
System Action: The error is logged and the Core Server continues.
Administrator Action: If the problem persists, check your security mechanism.

CORE1022 %s attempted to %s a Text record of type %d, but got error %d.

Source Files Generating Error Message: ns_Create.c.
Problem Description: The Core Server attempted to write a Text record, but discovered that a Text record of this type already exists. It attempted to delete the existing Text record and write the new one but failed.
System Action: The Core Server logs the event, returns an error to the client, and continues.
Administrator Action: If the error persists, contact your site administrator.

CORE1023 Entering %s.

Source Files Generating Error Message: core_APIs.c, core_ManagedObj.c, ns_CoreAPIs.c.
Problem Description: This message is used to log the entry into many of the Core Server APIs. This message includes the client supplied pathname among other things. This message is usually seen when REQUEST level log message tracing is turned on.
System Action: The message is logged and the Core Server continues.
Administrator Action: None.

CORE1024 The attempt to set the Fileset ID failed because the ID 0x%08x%08x is illegal.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server has been asked to create a fileset, or it has been asked to update an existing FilesetId. However has discovered that the client supplied FilesetId is zero! A FilesetId with a value of zero is not allowed.
System Action: An error is returned to the client and the Core Server continues.
Administrator Action: No action is required.

CORE1025 The attempt to change the RootOfRoots FilesetName failed because the SpecificConfig name '%s' doesn't match the GlobalFS name '%s' in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: An attempt was made to change the FilesetName of the RootOfRoots fileset. However, it was discovered that the FilesetName in the SpecificConfig record does not match the FilesetName in the GlobalFileset record. This shouldn't happen. The Core Server assumes that some other user is changing the FilesetName at this moment and gives up on the attempt.
System Action: The error is logged and the Core Server continues.
Administrator Action: If this problem persists contact your site administrator.

CORE1026 Function %s was called, but was not given any work to perform: %s.

Source Files Generating Error Message: ns_SetAttrs.c.
Problem Description: The Core Server's SetAttributes interface was called, but the client did not specify any attribute fields to set or any fields that should be returned.
System Action: Although the call was harmless, the Core Server feels that the client should be informed that they are making a do-nothing call. And so, an error is returned. The Core Server continues.
Administrator Action: A action is required.

CORE1027 A NULL PathName was passed to %s.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: The Core Server's pathname parsing function has been called with a NULL pathname. This pathname parsing function can only be called internally and so it should not be possible for this function to be passed a NULL pathname.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information and then restart the Core Server.

CORE1028 Length of SymLinkData was too short, too long, NULL, or a path component in the SymLinkData was too long in %s.

Source Files Generating Error Message: ns_Create.c.
Problem Description: A client attempted to create a symbolic link entry, but committed one or more of the following sins: did not supply any symbolic link data, the total length of the symbolic link data was too long, or one of the components of the symbolic link is too long.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1029 While parsing a pathname it is possible that a symlink was encountered that points to itself. Dir ObjId 0x%08x%08x, Name %s. %s.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: When parsing pathnames the Core Server maintains a count of the number of path components found in the pathname. This count has exceeded the maximum possible count. This can happen if the pathname contains a symbolic link that points back to some earlier point in the pathname.
System Action: The Core Server logs this anomaly and continues.
Administrator Action: If the problem persists contact the user associated with the pathname.

CORE1030 Consistency failure. The HLOrigParentId in MetaObject 0x%08x%08x doesn't point to the parent of HardLink 0x%08x%08x in %s.

Source Files Generating Error Message: ns_Delete.c, ns_Update.c.
Problem Description: There is an inconsistency in the metadata records which describe one of the HardLinks. This should be examined and, if possible, repaired.

System Action: The operational state is set to SUSPECT and the Core Server continues.
Administrator Action: Record all of the information and then notify HPSS Support.

CORE1031 %s will use the existing %s record. No initialization is necessary!

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: As the Core Server initializes it examines several of its tables to ensure that they seem consistent. This is an informative message telling one and all that it thinks the indicated tables seem consistent and that there is no need to initialize them.
System Action: The message is logged and the Core Server continues.
Administrator Action: None.

CORE1032 Global FilesetName '%s' with FSId 0x%08x%08x does not match RootFilesetName '%s' in SpecificConfig table in %s. Changing the SpecificConfig record!

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization many consistency checks are performed. One of these checks is to ensure that the FilesetName kept in the SpecificConfig table is the same as the FilesetName kept in the corresponding GlobalFileset record. Apparently they did not compare. This message is to inform one and all that the Core Server is about to correct this inconsistency by changing the FilesetName in the SpecificConfig table.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1033 Bit must be either 0 or 1 but was instead: %d in SetBit.

Source Files Generating Error Message: ns_BitVector.c.
Problem Description: SetBit was called to set a bit in a bit vector, however the bit value supplied in this call to SetBit was not a simple 0 or a 1. This is unforgivable.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server.

CORE1034 Error %d was returned by hpss_SECGenAuthzTkt in MakeTicket.

Source Files Generating Error Message: ns_MakeTicket.c.
Problem Description: The Core Server was attempting to construct an access ticket and received an error from hpss_SECGenAuthzTkt.
System Action: The error is logged and the Core Server continues.
Administrator Action: Ensure that your security mechanism is functioning properly.

CORE1035 Attempted to build a pathname to the object cache dump file. However the pathname component %s plus the length of '%s' were > 120 characters. %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.

Problem Description: The Core Server has been asked to dump the contents of it's object cache into a file. Someone is apparently doing some debugging. However, the pathname is too long to fit into the array that is supposed to hold this pathname.
System Action: The error is logged and the Core Server continues.
Administrator Action: Get the corresponding entry from the local HPSS log and notify your HPSS customer support representative.

CORE1036 Received error %d while attempting to open file '%s' in %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server has been asked to dump the contents of it's object cache into a file. Someone is apparently doing some debugging. However, the Core Server received an error while trying to create the output file.
System Action: The error is logged and the Core Server continues.
Administrator Action: Get the corresponding entry from the local HPSS log and notify your HPSS customer support representative.

CORE1037 Error %d was returned by ns_Find while attempting to do an ns_GetAttrs.

Source Files Generating Error Message: ns_GetAttrs.c.
Problem Description: The Core Server called ns_Find to complete an ns_GetAttrs request, but received an error.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1038 Consistency check failure in %s. %s has an incorrect value.

Source Files Generating Error Message: ns_ACLPackage.c, ns_ObjCachePackage.c.
Problem Description: A consistency check has failed. A certain value was expect, but was not received.
System Action: In some cases the Core Server continues, and in other cases it halts.
Administrator Action: If the Core Server has halted, restart it.

CORE1039 In %s the client with UID %d and realm Id %d tried to set the BitfileId.

Source Files Generating Error Message: ns_SetAttrs.c.
Problem Description: The Core Server detected that some ordinary client has attempted to change/set the BitfileId. Only Trusted users are allowed to change/set the BitfileId.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1040 Couldn't get an object handle to the DotDot directory: %d.

Source Files Generating Error Message: ns_DotPackage.c.
Problem Description: While attempting to build an object handle to the parent directory, the Core Server Name Service received an error from ns_Find.
System Action: The error is logged and the Core Server continues.

Administrator Action: None.

CORE1041 The CORE_storsubsys_config.StorSubsysId must not be zero! %s.

Source Files Generating Error Message: core_InitNS.c.
Problem Description: The Core Server performs many consistency checks during initialization. One of these checks is to ensure that the Storage Subsystem Id is not zero. It was zero.
System Action: The Core Server halts.
Administrator Action: Set the Subsystem Id to a correct and legal value. Restart the Core Server. If the problem persists contact your site administrator.

CORE1042 %s don't match for fileset %s (0x%08x%08x) in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: The Core Server performs many consistency checks during initialization. There is a series of these tests in which it compares UUIDs from the GlobalFileset table, the FilesetAttrs table, and the SpecificConfig table. One of these comparisons failed.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server. If the problem persists contact HPSS Support.

CORE1043 Error %d from ns_Find while getting attributes for the %s directory.

Source Files Generating Error Message: ns_ReadDir.c.
Problem Description: The client has requested that attributes be returned with the list of directory entries. While gathering these attributes for the "Dot" or "DotDot" directories the Core Server received an error.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1044 The DMG ServerId (%s) supplied by the client does not match the ServerId of the DMG used by this Core Server.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server has been asked to create a fileset of the type that requires that a Data Migration Gateway UUID be supplied. The Core Server has examined this supplied UUID and found that it is either zero or that it does not match the UUID of the Data Migration Gateway associated with this Core Server.
System Action: The Core Server returns an error and then continues.
Administrator Action: No action is required.

CORE1045 Error %d from ns_Update while setting attributes in ns_SetAttrs.

Source Files Generating Error Message: ns_SetAttrs.c.
Problem Description: While attempting to set client attributes, an error was returned by ns_Update.
System Action: The error is logged and the Core Server continues.

Administrator Action: None.

CORE1046 The input HardLinkObjId to %s should be zero, not 0x%08x%08x.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An internal consistency check has failed. The value of a certain parameter is expected to be zero when attempting to fetch attributes for a Hard Link object.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server.

CORE1047 Root FSAttrs rec is MISSING for FS '%s' (0x%08x%08x)! Creating it in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization many consistency checks are performed. One of these checks has revealed that there is no FilesetAttrs record for an existing GlobalFileset record. This message is to inform one and all of this unfortunate event, and further, to tell everyone that the Core Server is attempting to rectify this situation by creating a new FilesetAttrs record.
System Action: The Core Server sets its operational state to MAJOR and continues.
Administrator Action: If the error persists contact your site administrator.

CORE1048 During initialization FilesetAttrs record with FilesetId 0x%08x%08x was found, but the corresponding GlobalFileset record could not be found. Trying to recover. %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization many consistency checks are performed. One of these checks has revealed that there is no GlobalFileset record that corresponds to an existing FilesetAttrs record. This message is to inform one and all of this unfortunate event, and further, to tell everyone that the Core Server is attempting to recover.
System Action: The Core Server sets its operational state to SUSPECT and continues.
Administrator Action: If the error persists contact your site administrator.

CORE1049 Error %d from ns_Find trying to read symbolic link in ns_ReadLink.

Source Files Generating Error Message: ns_CoreAPIs.c.
Problem Description: The Core Server received an error from ns_Find while trying to read the requested symbolic link data.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1050 The FilesetId (0x%08x%08x) in the SpecificConfig record did not match any entry in the GlobalFileset table. I found a correct FilesetAttrs entry and changed the FilesetId and FilesetName in the SpecificConfig file to '0x%08x%08x' and '%s'. %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server performs many consistency checks. One of these checks is to ensure that the RootOfRoots FilesetId found in the SpecificConfig record matches the FilesetId in the corresponding GlobalFileset record. They don't match. The Core Server will attempt to correct the situation by updating the record in the SpecificConfig record.
System Action: The Core Server sets its operational state to MAJOR and continues.
Administrator Action: If the error persists contact your site administrator.

CORE1051 Didn't expect FilesetAttrs record with FS name '%s' to exist after creating GlobalFileset record in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server performs many consistency checks. The Core Server is examining the records related to Filesets and, after creating a new GlobalFileset record, did not expect to find an already existing FilesetAttrs record having the same FilesetId.
System Action: The Core Server sets its operational state to MINOR and continues.
Administrator Action: If the error persists contact your site administrator.

CORE1052 FSHandle in FSAttrs rec '%s' doesn't match handle to Root fileset in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server performs many consistency checks. In this check the Core Server is insuring that the RootOfRoots FilesetHandle found in the FilesetAttrs record matches an already existing RootOfRoots FilesetHandle. It doesn't match.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server. If the error persists contact HPSS Support.

CORE1053 The %s must be %d not %d in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server performs many consistency checks. In this check it was determined that either the Fileset Type was wrong or the StateFlags were wrong.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server. If the error persists contact HPSS Support.

CORE1054 Global FS '%s' (0x%08x%08x) exists, but has no matching FSAttrs FS in %s, this is Ok if the Core Server is being run for the very first time on this database.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server performs many consistency checks. During one of these checks it was discovered that there is no FilesetAttrs record that corresponds to the existing RootOfRoots GlobalFileset record.

If this is a cold start then this is the expected behavior. In either case the Core Server will attempt to create a new RootOfRoots FilesetAttrs record.
System Action: The Core Server continues.
Administrator Action: If the error persists contact your site administrator.

CORE1055 An unauthorized user attempted to insert a BitfileId. %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: The Core Server will only insert BitfileIds for Trusted users.
System Action: The Core Server logs the infraction and continues.
Administrator Action: None.

CORE1056 Record 0x%08x%08x has a bad 'Type' field (%d) in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server performs many consistency checks. In this particular consistency check the Core Server examines the Type of the RootOfRoots object record. The Type of this record must be FILESET_ROOT. It wasn't.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server. If the error persists contact HPSS Support.

CORE1057 Attempted to insert a duplicate BitfileId into the database in <API name>.

Source Files Generating Error Message: ns_CoreAPIs.c.
Problem Description: The Bitfile ID provided to the specified API already exists in metadata.
System Action: The error is logged and the API fails to perform the requested task.
Administrator Action: Contact HPSS Support.

CORE1058 Error %d while initializing mutex %s in %s.

Source Files Generating Error Message: ns_ObjectIdPackage.c.
Problem Description: The Core Server attempted to initialize a mutex with a call to pthread_mutex_init but the call failed.
System Action: The Core Server halts.
Administrator Action: Ensure that your security mechanism is functioning properly and then restart the Core Server.

CORE1059 The %s principal has connected to the Core Server, but does NOT have the W bit set on the Core Server's Security Object. %s.

Source Files Generating Error Message: core_ConnectNS.c.
Problem Description: The Core Server has determined that either the SSM or the DMG has connected to it. This is fine if and only if the Write bit has been set for this principal on the Core Server's Security Object ACL.
System Action: The Core Server halts.

Administrator Action: Ensure that the Write bit is set appropriately for the appropriate principal on the Core Server's Security Object ACL. Restart the Core Server. If the error persists contact your site administrator.

CORE1060 The realm admin principal has connected to the Core Server, but does not have W permission on the Core Server's Security Object. %s.

Source Files Generating Error Message: core_ConnectNS.c.
Problem Description: This is a warning message telling one and all that the principal realm_admin has connected to the Core Server, and that the Core Server has discovered that realm_admin does not have Write permission. This is not a big deal, but it is unusual for realm_admin not to have Write permission.
System Action: The error is logged and the Core Server continues.
Administrator Action: Investigate the realm_admin principal on the Core Server's Security Object ACL.

CORE1061 An invalid FilesetName was passed to %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The fileset PathName passed to the Core Server was either NULL or contained no characters. This is illegal.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1062 The %s principal has connected to the Core Server and has the W bit set on the Core Server's Security Object. This is not allowed. %s.

Source Files Generating Error Message: core_ConnectNS.c.
Problem Description: A client has connected to the Core Server and the Core Server has detected that the credentials for this client contain the Write bit. Only a very limited number of principals are allowed to have the Write bit on. This client is not one of these privileged clients.
System Action: The Core Server halts.
Administrator Action: Examine the Core Server's Security Object ACL. Why does this principal have Write permission?.

CORE1063 In %s an attempt was made to create a HardLink to an object that isn't a File or HardLink.

Source Files Generating Error Message: ns_Link.c.
Problem Description: The client attempted to create a HardLink to an object that is not a File or a HardLink. What are they thinking?.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1064 The ObjectId was not %d as expected during initialization in %s.

Source Files Generating Error Message: ns_InitTables.c.

Problem Description: During initialization many consistency checks are performed. One if these consistency checks is to ensure that the ObjectId in the RootOfRoots and DotDot directories is a certain value. If it isn't this value the system cannot run. Apparently it was not this value.
System Action: The error is logged and the Core Server halts.
Administrator Action: Restart the Core Server. If the error persists contact HPSS Support.

CORE1065 A TrustedUser with RealmId %d cannot change the UID of an Object with RealmId %d. %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: A TrustedUser is attempting to change the UID of an object. However the RealmId from the TrustedUser's credentials does not match the RealmId of the object. Because of the ambiguity of ownership caused by UIDs and RealmIds, this change is not allowed.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1066 DMGFSInfo was supplied when an HPSS_Only fileset create was requested.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: When creating an HPSS_Only fileset it makes no sense to supply DMG Fileset information.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1067 DMGFSInfoP was NULL and we are not creating an HPSS_Only fileset.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: When creating a fileset whose type is not HPSS_Only, DMG Fileset information must be supplied. It wasn't.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1068 No Object attributes or fileset attributes were supplied to %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: Each type of fileset needs to have certain information supplied in order for the Core Server to create the fileset. For example an Archived fileset would require Object, FSAttrs, and DMG information to be provided. Apparently someone has attempted to create a fileset without supplying the information necessary for that type of fileset.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1069 The BitfileId in object 0x%08x%08x from the database, differs from the BitfileId found in the same file in the object cache. %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server has been given a BitfileId and has been asked to find the file that corresponds to this BitfileId. The Core Server has looked in its cache and hasn't found it, and so it has read the file from the database. After reading the file from the database the Core Server once again looks into the cache to ensure that the file hasn't appeared in the cache in the meantime. In this particular case it discovers that the file has indeed appeared in the cache! It then performs a consistency check — it compares the BitfileId found in the cached file with the BitfileId in the newly read file. The BitfileIds don't match! This should not happen.
System Action: The Core Server returns an error and continues.
Administrator Action: Note the ObjectId of the file and then attempt to ensure that this file is still valid.

CORE1070 Unexpected object handle type (%d) in object 0x%08x%08x in %s.

Source Files Generating Error Message: ns_DotPackage.c.
Problem Description: A consistency check has failed. The Core Server was attempting to get the parent directory of an object that was not a directory. In this particular context this is illegal.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server.

CORE1071 The ObjectId sent to %s is less than or equal to zero.

Source Files Generating Error Message: ns_Pathname.c.
Problem Description: The Core Server was asked to return the pathname to an object given the objects ObjectId. However, the supplied ObjectId is less than, or equal to zero. This ObjectId is invalid.
System Action: The Core Server returns an error and continues.
Administrator Action: None.

CORE1072 Couldn't find FilesetRoot object with Id 0x%08x%08x in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server searched its Fileset cache table for an entry that it thought it would find, but did not find it.
System Action: The Core Server logs the anomaly and continues.
Administrator Action: None.

CORE1073 The CoreServerId in the DMG Info is for a different CoreServer.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: Each DMG is paired with one and only one Core Server. A client is attempting to create a fileset that will be managed by a DMG, but the DMG information supplied to the Core Server contains a UUID that points to a different Core Server.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1074 **The list of default ACLs is bad. Expecting EntryType %s, but got EntryType %d. %s.**

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: An internal Core Server error has occurred. The Core Server expects the list of default ACL entries to be in a certain order. They weren't in this order.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server. If the error persists contact HPSS Support.

CORE1075 **Error %d from %d call to TraversePath in %s.**

Source Files Generating Error Message: ns_CoreAPIs.c, ns_GetAttrs.c.
Problem Description: The Core Server is reporting an error that occurred while parsing a pathname.
System Action: The name serve logs the error and continues.
Administrator Action: None.

CORE1076 **A FilesetAttrs record with FilesetHandle.UUID %s was found in the Core Server's FilesetAttrs table. %s.**

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: Each record in the FilesetAttrs table contains the UUID of the Core Server that owns those filesets. Each of these records should have exactly the same Core Server UUID. Apparently a record was found that contained some other UUID. This should never happen.
System Action: The Core Server halts.
Administrator Action: Record all of the information. Restart the Core Server. Contact HPSS Support.

CORE1077 **The Core Server is being shut down through the quick-shut-down interface.**

Source Files Generating Error Message: ns_Admin.c.
Problem Description: This is simply an informative message telling one and all that the Core Server is shutting down and that it was instructed to do so through use of the quick-shut-down function in its Administrative interface.
System Action: The Core Server shuts down.
Administrator Action: None.

CORE1078 **Trouble building a unique 128 character Name for a %s in %s. The Name is '%s'.**

Source Files Generating Error Message: ns_Link.c.
Problem Description: The Core Server puts a random 128-character string into the Name field of each HardLink MetaObject. These Names must be unique. Apparently this one wasn't.
System Action: The Core Server halts.

Administrator Action: Restart the Core Server. If the problem persists contact HPSS Support.

CORE1079 An attempt was made to change the %s in a non HPSS_Only Fileset in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: Fields such as the FilesetId and GatewayUUID can only be changed in HPSS_Only filesets. Apparently this client attempted to change one of these fields in a fileset that isn't HPSS_Only.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1080 A client is deleting a Comment from object record 0x%08x%08x.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: A client has asked the Core Server to update the Comment field with a zero length Comment. The Core Server interprets this as a request to delete the existing Comment.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1081 If a Fileset is RO or DESTROYED, only the StateFlags or RegisterBitmap field can be modified. %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: A client has attempted to modify a field other than the StateFlags or RegisterBitmap fields in a ReadOnly or DESTROYED fileset. This is not allowed.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1082 No sym link data was read from the SymLink. ObjectId 0x%08x%08x. %s.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: A sanity check has failed. While parsing a pathname we encountered a symbolic link, but our attempt to read the associated symbolic link data did not yield any symbolic link data. This should never happen.
System Action: The Core Server halts.
Administrator Action: Record all of the information. Restart the Core Server. Contact HPSS Support.

CORE1084 Exiting %s.

Source Files Generating Error Message: core_APIs.c, core_ManagedObj.c, ns_CoreAPIs.c.
Problem Description: The Core Server is logging the exit from one of its APIs.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1085 ACLs containing UNAUTHENTICATED entries cannot be modified. Delete the UNAUTHENTICATED entry in the ACL first.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server has been asked to update, set, or delete ACL entries in an ACL which contains an unauthenticated ACL entry. Unauthenticated ACL entries are no longer used and so any attempt to modify an ACL which contains an unauthenticated ACL entry is not allowed. The client must first delete the unauthenticated ACL entry from this ACL, and then they will be allowed to modify the ACL.
System Action: The Core Server returns an error and then continues.
Administrator Action: No action is required.

CORE1086 Foreign User %d from RealmId %d tried to create in directory 0x%08x%08x when the SET_GID bit was on. %s.

Source Files Generating Error Message: ns_Create.c.
Problem Description: A client is attempting to create an object in a directory that has the SET_GID flag set. However, this client is foreign to this directory. Foreign users cannot create in directories that have the SET_GID flag set.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1087 Core Server Admin: %s. %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: The Core Server MiscAdmin interface has been called to perform one of its miscellaneous functions. Each call to the MiscAdmin interface is logged with a message which describes the action that was requested and action that was taken.
System Action: The Core Server logs the event and continues.
Administrator Action: No action is required.

CORE1088 The object name or the fileset name contains unprintable characters. %s.

Source Files Generating Error Message: ns_Create.c, ns_FilesetPackage.c, ns_Link.c, ns_Rename.c.
Problem Description: Sites are given the opportunity to configure the Core Server to not allow any Object Names or Fileset Names that contain unprintable characters. Apparently this site has chosen this option and some client has attempted to create a Fileset or Object with a Name which contains unprintable characters.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1089 Setting the Core Server %s state to %s in %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: The Core Server allows the ability to manually set its Operational, Communication, and/or Software state. This is an informative message

telling one and all that someone has taken advantage of this ability and has manually set one of these states.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1090 A bad state value (%d) was supplied while trying to change the %s state in %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: The Core Server allows the ability to manually set its Operational, Communication, and/or Software state. Someone tired to take advantage of this ability, but supplied a bad state value.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1091 UID %d received error %d from av_srv_ValidateAcct in %s using RealmId %d, account %d, account flags 0x%08x. ObjId of Parent directory: 0x%08x%08x.

Source Files Generating Error Message: ns_ACLPackage.c, ns_AttrPackage.c, ns_Create.c.
Problem Description: The Core Server called av_srv_ValidateAcct while trying to change either the account or the owner of an object. Unfortunately, av_srv_ValidateAcct returned an error.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1092 A database deadlock condition was returned from %s in %s at line %d. Retrying. %s.

Source Files Generating Error Message: ns_MMLibPackage.c.
Problem Description: Deadlocks are a rather routine fact of life that the Core Server must deal with. Apparently one of these deadlocks has occurred and the Core Server will retry.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1093 A ReadDir state record indicated that it contained no object records. This should never happen. %s.

Source Files Generating Error Message: ns_ReadDir.c.
Problem Description: The Core Server has performed a consistency check in its ReadDir function and this consistency check has failed. The Core Server maintains state which helps it to service ReadDir requests which require multiple buffer loads of data. It has found one of these state records and has examined its contents and has been dismayed to discover that it does not contain the expected contents. It expects that the record will contain at least one object record entry. It apparently does not.
System Action: The Core Server terminates.
Administrator Action: Save any core file that may have been produced and notify your HPSS support representative. Restart the Core Server.

CORE1094 The realm Id in the UserCreds is zero (FromContext is %d) in %s.

Source Files Generating Error Message: ns_Create.c, ns_CredsPackage.c.
Problem Description: The RealmId field of the input user credentials is zero. This is not allowed.
System Action: The Core Server logs this infraction and continues.
Administrator Action: None.

CORE1095 We unexpectedly found a ReadDir state record in the ReadDirState list. %s.

Source Files Generating Error Message: ns_ReadDir.c.
Problem Description: The Core Server was processing a ReadDir request and started to add a new state record to its list of existing state records. However it discovered that this supposedly new record was already on the list! This is very surprising and unexpected. This log message is an informative message to inform everyone that this unexpected event has taken place.
System Action: The Core Server logs the event, throws the new state record away, and then continues.
Administrator Action: No action is required.CORE1096 Error %d from %s creating %s 0x%08x%08x in %s.**Source Files Generating Error Message:** ns_InitTables.c.**Problem Description:** While trying to create and initialize the indicated table the Core Server received an error.**System Action:** The Core Server halts.**Administrator Action:** Attempt to restart the Core Server. If the error persists contact your site administrator.

CORE1096 Error %d from %s creating %s 0x%08x%08x in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: During initialization the Core Server has discovered that a FilesetAttrs record was missing. It is attempting to recover from this problem by creating a new record, but when it attempted to write this new record to the database, it got an error. At this point it declared that enough was enough.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Ensure that db2 is operating properly. Attempt to restart the Core Server. If the problem persists, contact your HPSS support representative.

CORE1097 Consistency check failed in %s. %s.

Source Files Generating Error Message: ns_ObjCachePackage.c, ns_ReadDir.c.
Problem Description: The Core Server performs consistency checks at various points while processing ReadDir requests. One of these consistency checks has failed. An internal function may have been called to add an entry to a list and then discovered that the entry was already on the list, or, a situation may have occurred that was totally unexpected.
System Action: The Core Server logs this message and then terminates.
Administrator Action: Save any core file that may have been produced, notify your HPSS support representative, and restart the Core Server.

CORE1098 **The time difference between the current time and the TimeLastAccessed from the ReadDirState was negative. I fixed it. %s.**

Source Files Generating Error Message: ns_ThreadsPackage.c.
Problem Description: To compute the age of a ReadDir state record the Core Server subtracted the time found in the ReadDir state record from the current time. The result of the this calculation was negative! This should never happen. This log message is an informative message to let you know that this unusual event has occurred.
System Action: The Core Server sets the time in the ReadDir state record to the current time minus one. It then logs this message and continues.
Administrator Action: If all other activities on this machine seem normal then no action is required. However if other anomolous events are happening perhaps the administrator for this machine should be notified.

CORE1099 **An attempt was made to get CompositePerms for the Parent object in %s.**

Source Files Generating Error Message: ns_Find.c.
Problem Description: The client has requested that the composite permissions for a parent directory be returned. This would require getting the parent of the current parent directory. This we will not do!
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1100 **While building the pathname to the performance log file, we discovered that this pathname was too long. %s.**

Source Files Generating Error Message: core_Init.c.
Problem Description: During its initialization the Core Server detected that the pathname to the file used to collect performance data was too long. The pathname was greater than HPSS_PL_PATHNAME_LENGTH characters in length.
System Action: The Core Server logs this message and then terminates.
Administrator Action: Check the pathname components in the environment variables HPSS_PATH_TMP and HPSS_PERFLOG_NAME_CORE.
The character lengths of these components cannot be more than HPSS_PL_PATHNAME_LENGTH characters.

CORE1101 **Consistency failure in %s. An object of type directory was expected.**

Source Files Generating Error Message: ns_ReadDir.c.
Problem Description: ReadDir calls a subfunction that is supposed to return the parent object handle to the directory handle that is passed in. A consistency check at the top of this subfunction has detected that the Type of the handle that is passed in is not a directory! This should never happen.
System Action: The Core Server logs this message and then terminates.
Administrator Action: Save any core file that may have been generated. Restart the Core Server.

CORE1102 **Consistency failure in %s. The transaction should not already be aborted.**

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: A consistency check has failed. Examination of the transaction handle that has been passed to one of the object cache function reveals that this transaction has already been aborted. This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been produced. Restart the Core Server, and contact your HPSS support representative.

CORE1103 Waiting for object cache entry 0x%08x%08x to become free in %s. The time limit has expired and we see that the %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: Any thread requesting an object from the object cache may have to wait for that object to become available. These threads are only willing to wait for a certain amount of time, and so, it might happen that the thread's timeout value will expire before the object becomes available. When this happens, this message is logged. There are two forms of this message — these forms tell us the reason for the timeout. Either the object was in use, or the transaction hasn't dropped.
System Action: This message is logged and the Core Server continues.
Administrator Action: None.

CORE1104 In %s, no transaction handle was supplied, but we were asked to perform a modify on the object.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: A consistency failure has occurred in the object cache. An object cache function was asked to perform a create, modify, or delete on a object. However, no transaction handle was supplied for this operation. This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Notify your HPSS support representative.

CORE1105 Consistency failure in %s. The supplied transaction handle is for an aborted transaction.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: A consistency check has failed. Examination of the transaction handle that has been passed to an object cache function reveals that this transaction has already been aborted.
System Action: This message is logged and the Core Server continues.
Administrator Action: None.

CORE1106 Consistency failure in %s. The pointer to the object cache record is NULL.

Source Files Generating Error Message: ns_ObjCachePackage.c.

Problem Description: The Core Server object cache callback routine has been called with a NULL object cache record pointer. This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1107 **Consistency failure in %s. The transaction serial number is zero. This should never happen.**

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server's object cache callback function has discovered that it has been called with a transaction handle whose serial number is zero. This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1108 **Consistency failure in %s. The transaction serial numbers do not match. This should never happen.**

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server's object cache function used to gain exclusive access to an object has detected that the transaction handle serial Id in the object cache record does not match the transaction handle serial Id in the proffered transaction handle. This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1109 **Sanity check failure: HPSS_ACLType has a value of %d in %s.**

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: There are three Core Server ACL types: Initial Container, Initial Object, and Object. The input ACL type proffered to the ns_WriteACL function is none of these. This is a fatal error.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1110 **In %s, the object cache events create, delete, and modify are supposed to be mutually exclusive.**

Source Files Generating Error Message: ns_ObjCachePackage.c.

Problem Description: The Core Server's object cache expects to be called to perform creates, modifications, or deletes on objects. However it has been called to do two or more of these operations. This makes no sense.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1111 The object cache entry must be locked before an attempt can be made to unlock it! %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server's object cache function that is used to unlock cache entries was called to unlock an entry that was already unlocked! This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1112 Non NULL pointers to the old and new directories must be supplied when doing a Rename. %s.

Source Files Generating Error Message: ns_Rename.c.
Problem Description: An attempt is being made to rename an object. However, the pointer to the directory which contains the current object, or the pointer to the directory which will contain the newly named object, or both of these directories are NULL. This is not allowed.
System Action: The Core Server returns an error and continues.
Administrator Action: None.

CORE1113 Object cache operation not permitted in %s: a %s followed by a %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: Consistency checks are performed in the Core Server's object cache to ensure that requested operations are consistent with operations that may already be taking place in the cache. For example if an object is in the cache as the result of a create request, it is not legal to delete it until the create has be resolved. Apparently some request has violated one of these rules.
System Action: The Core Server returns an error and continues.
Administrator Action: None.

CORE1115 %d is not an acceptable value %s. %s.

Source Files Generating Error Message: ns_Admin.c, ns_ObjCachePackage.c.
Problem Description: This log message is used to point out that an unacceptable value has been used for an operation. For example a certain operation may require a value of READ, but instead got some other value.

System Action: In some cases the Core Server will halt, it other cases it will return an error and continue.
Administrator Action: If the Core Server has halted, collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1116 core_MiscAdmin function %s expected the length of the conformant array parameter to be %d, but instead it was %d. %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: Certain of the core_MiscAdmin functions require that additional information be passed in or out through the conformant array parameter. The functions requiring the conformant array parameter are: delete an object cache entry, dump the object cache, flip the BFS empty COS flag, turn object cache tracing on, return performance logging status, the various printing options, set the communication state, set the software state, set the operational state, and get the realm Id. Apparently one of these functions was indicated, but without a conformant array parameter of the correct length.
System Action: The Core Server returns an error and continues.
Administrator Action: None.

CORE1117 Illegal function value (%d) passed to %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: The range of possible ADMIN functions is specified in ns_Constants.h. These constants have names of the form NS_ADMIN_*. Any function value outside of this range will receive this error.
System Action: The Core Server returns an error and continues.
Administrator Action: None.

CORE1118 An unauthorized user tried to perform admin functions in %s.

Source Files Generating Error Message: ns_CoreAPIs.c.
Problem Description: The Core Server detected an unauthorized client trying to use the Core Server’s Administrative interface.
System Action: The error is logged and the Core Server continues.
Administrator Action: If there are repeated attempts by this client to use this API, take whatever action seems appropriate.

CORE1119 Restricted user with UID %d attempted to use Core Server function %s.

Source Files Generating Error Message: core_APIs.c.
Problem Description: It is possible to prevent users from using the Core Server. This is accomplished through the use of a restricted user list. Any user whose name has been put onto this restricted user list will be denied access to all Core Server services. Apparently a user whose name is on the restricted user list tried to use the Core Server. This is not allowed.
System Action: The Core Server returns an error and continues.

Administrator Action: If the administrator feels that this user should not be attempting to access the Core Server, appropriate action should be taken.

CORE1120 Sanity Check failure: %s was called with a NULL ACLEntriesP value.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server performs a sanity check at the top of the WriteACLEntries function. It ensures that it has been passed some ACL entries to write. Apparently this call did not contain any ACL entries.
System Action: The Core Server halts.
Administrator Action: Examine the log for any related messages. Restart the Core Server as appropriate.

CORE1121 A bad Function value (%d) was passed to core_MiscAdmin by UID %d. %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: This test was probably overkill and I doubt is anyone will ever see it. The range of possible ADMIN functions is specified in ns_Constants.h. These constants have names of the form NS_ADMIN_*. This log message indicates that someone attempted to use a function value outside of the allowable range. However, a test of the function range has already been made. See CORE1117 above.
System Action: The Core Server returns an error, the Core Server operational state is set to SUSPECT, and the Core Server continues running.
Administrator Action: Gather the associated log information and call HPSS support.

CORE1123 A search for a BitfileId in the Name Service object cache has failed in %s. This should never happen.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: This is a major failure. The Core Server found a file object in the object cache and then called a lower level routine to perform an operation on the object. However the lower level routine could not find the object. This should be impossible.
System Action: The error is logged and then the Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1124 The PinnedEntryCount is <= 0 in %s. This should never happen.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server uses a counter named the PinnedEntryCount to implement shared access to objects in the object cache. It has detected that this count become negative. This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1125 Deleting an object that should be in the bitfile list but the entire list is NULL.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server is deleting a file from its object cache and has reached the point in this operation where it wishes to delete the BitfileId from the BitfileId list. However the hash of this BitrileId leads it to an empty list! This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1126 Deleting an object that should be in the bitfile list, but this file is NOT in the list.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: The Core Server is deleting a file from its object cache and has reached the point in this operation where it attempting to delete the BitfileId from the BitfileId list. However it cannot find the BitfileId in the list! This should never happen.
System Action: The Core Server halts.
Administrator Action: Collect all of the relevant log information. Save any core file that may have been generated. Restart the Core Server. Contact your HPSS support representative.

CORE1127 The Directory and PathName are both NULL in %s.

Source Files Generating Error Message: ns_CoreAPIs.c, ns_Delete.c, ns_GetAttrs.c, ns_SetAttrs.c.
Problem Description: A client called the indicated API, but did not supply either a directory or a path name.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1129 %s: the pathname has too many components.

Source Files Generating Error Message: ns_Pathname.c, ns_SetAttrs.c.
Problem Description: A client has supplied a pathname which contains too many path components.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1133 The client supplied BuffSize (%d) was too small in ns_ReadDir.

Source Files Generating Error Message: ns_ReadDir.c.
Problem Description: A client has asked to read directory entries, but has supplied a buffer too small to hold a single entry.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1137 **Cannot build a pathname for the DotDot entry (ObjId = 0x%08x%08x). %s.**

Source Files Generating Error Message: ns_Pathname.c.
Problem Description: The core server was asked to build a pathname for the DotDot entry, object Id = 2.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1138 **Error %d from RemoveLastLink. An illegal last link was discovered in %s.**

Source Files Generating Error Message: ns_CoreAPIs.c.
Problem Description: In many of its client API routines the Core Server must remove the last component (or link) of a pathname so that the pathname may be parsed. This attempt to remove the last component failed.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1142 **User %d attempted to use a stale ObjHandle with Id 0x%08x%08x in %s.**

Source Files Generating Error Message: ns_Delete.c, ns_Update.c.
Problem Description: The client attempted to delete or update a MetaObject, but the Core Server discovered that the "Original" object was gone. The client’s object handle is stale.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1143 **An attempt was made to deallocate the trashcan data structures while trashcans were enabled. This should never happen.**

Source Files Generating Error Message: ns_TrashcanPackage.c
Problem Description: The Core Server has received a request to deallocate trashcan data structures while trashcans are enabled. This is the result of an invalid operation and represents a bug in the code.
System Action: The Core Server aborts.
Administrator Action: Contact HPSS support.

CORE1144 **Consistency failure: a GarbageManThread was invoked, but its GarbageCan was empty. This should never happen.** +

Source Files Generating Error Message: ns_TrashcanPackage.c
Problem Description: The Core Server has began processing trashcan incineration, but the thread’s garbage can was empty. This should never happen and represents a bug in the code.
System Action: The Core Server aborts.
Administrator Action: Contact HPSS support.

CORE1145 **Trashcans are not enabled so no trashcan initialization was performed.** + **Source Files Generating Error Message:** ns_TrashcanPackage.c

Problem Description: The Core Server will log this when trashcans are disabled as an indicator that trashcans are not on. This is not an error but merely an informational message.
System Action: No trashcan initialization performed.
Administrator Action: None.

CORE1146 **Zero trashcan threads are configured. No %s was performed. %s. + Source Files Generating Error Message:** ns_TrashcanPackage.c
Problem Description: The Core Server will log this when no (0) trashcan incinerator threads are configured. Trashcan initialization will not be done, and any threads spawned will exit immediately. This is not an error but merely an informational message.
System Action: No trashcan initialization performed and worker threads will not run.
Administrator Action: None.

CORE1147 **An attempt is being made to change the Type of the root fileset to a value other than HPSS_Only in %s.**

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server has received a client request to change the Type of the root fileset. The only legal Type for the root fileset is HPSS_Only. This is not the Type supplied by the client.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1148 **The RealmId of FOREIGN ACL entry types must be foreign, not zero.**

Source Files Generating Error Message: ns_Auth.c.
Problem Description: The RealmId field of any FOREIGN ACL entry types must be non zero. How else can they be foreign?.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1149 **The RealmId field of local ACL entries must be %d, not %d in %s.**

Source Files Generating Error Message: ns_Auth.c.
Problem Description: A client has submitted ACL entries of the type whose RealmId fields cannot be zero or, if they are non-zero, they must match the realm of the ACL. Evidently, one or more of the Clients's ACL entries do not follow these rules.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1150 **The TrashIncinerator terminated when it detected that a TrashIncinerator was already running.**

Source Files Generating Error Message: ns_TrashcanPackage.c

Problem Description: A request has come in to initialize or deinitialize trashcans or trashcan workers while the trashcan incinerator was running. This is an invalid scenario and represents a bug.
System Action: The Core Server aborts.

Administrator Action: Contact HPSS support.

CORE1151 **Consistency failure: the computation of the trashcan EligibleTime yielded a result less than zero.** +

Source Files Generating Error Message: ns_TrashcanPackage.c, ns_ThreadsPackage.c
Problem Description: In calculating the time an object could become eligible for deletion based upon the current time and current settings, the Core Server wound up with a negative time. This should never happen.
System Action: The Core Server aborts.

Administrator Action: Contact HPSS support.

CORE1152 **The TrashIncinerator run has completed. Last run: %u successful deletes, %u unsuccessful deletes, %lu bytes. Grand totals: %u successful deletes, %u unsuccessful deletes, %lu bytes.** +

Source Files Generating Error Message: ns_TrashcanPackage.c
Problem Description: The Core Server will log a message whenever the trash incinerator has finished running, either via running to completion or being asked to stop early based on some event. This message contains statistics about the run that just finished as well as statistics for the current server uptime.+ **System Action:** None.

Administrator Action: None

CORE1153 **The EntryId must be set to zero in this type (%d) of ACL entry. ACL.EntryId= %d, ObjectId=0x%08x%08x. %s.**

Source Files Generating Error Message: ns_Auth.c.
Problem Description: The EntryId must be zero in the indicated ACL entry type. Any exceptions result in an error.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1154 **Field(s) %s were negative in Fileset 0x%08x%08x. %s set the values to zero in the FilesetAttrs file, but the value(s) should eventually be corrected.**

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: While updating the fileset attribute record, the Core Server detected that the indicated count field had a negative value. Counts cannot be negative. The purpose of this message is to inform everyone that the Core Server has set this negative count field to zero. In addition the Core Server advises that this Count field should someday be set to the "correct" value. Correcting the counts in a

large database can take a great deal of time and consequently should be scheduled appropriately. The utility nsde can be used to find the correct count values.
System Action: The Core Server logs the event and continues.
Administrator Action: During some quiet time the administrator could run nsde to gather the correct count values and then assign these values to the appropriate fileset records.

CORE1155 The %s parameter in %s contains an unexpected value.

Source Files Generating Error Message: ns_TrashcanPackage.c
Problem Description: A badly formatted request to change a setting via the NS administrative interface has been detected. The change will not be made and the request will end in failure.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1156 The TrashIncinerator could not run because the AChangeIsInProgress flag is set.

Source Files Generating Error Message: ns_TrashcanPackage.c
Problem Description: A trashcan incinerator worker has determined that a change to the trashcan structure is in progress. The worker will not run. This is not an error but an informational message.
System Action: The error is logged and the Core Server continues.

Administrator Action: None.

CORE1157 A Trash state record indicated that it contained no trash records. This should never happen. %s. +

Source Files Generating Error Message: ns_ReadTrash.c
Problem Description: The Core Server has determined that no trash record entries are in the return trash entry buffer. This is an invalid scenario and represents a bug.
System Action: The Core Server aborts.

Administrator Action: Contact HPSS support.

CORE1169 Error %d from hpss_SECUcredAudit in ns_SendSecAudit.

Source Files Generating Error Message: ns_SecurityPackage.c.
Problem Description: The Core Server is attempting to make a security audit record, but has received an error in the attempt.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1171 Error %d returned from pthread_cond_timedwait for %s in %s.

Source Files Generating Error Message: ns_ObjCachePackage.c.
Problem Description: While attempting to set up a condition variable the Core Server received an error from pthread_cond_timedwait.

System Action: The Core Server shuts down.
Administrator Action: Ensure that your security mechanism is functioning properly and then restart the Core Server.

CORE1172 %s: a component of the pathname is too long.

Source Files Generating Error Message: ns_GetAttrs.c, ns_TraversePath.c.
Problem Description: A component of a client supplied path name is too long.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1174 Error %d was returned by ns_Find in %s. Name: %s.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: While parsing a client's path an error was received while attempting to fetch the indicated pathname component.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1175 Error %d returned by ns_Find fetching sym link data in %s.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: A symbolic link component was discovered in a path name, but the attempt to read the associated symbolic link data failed.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1179 A UserObj ACL entry could not be found in the ACL of type %d for object 0x %08x%08x. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server searched through either an Initial Container ACL or an Initial Object ACL for the UserObj entry. It could not find a UserObj entry. There should always be a UserObj entry.
System Action: The Core Server sets its state to SUSPECT and continues.
Administrator Action: Send this log message to your site representative.

CORE1183 Unknown EntryType %d in %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: While scanning an object's list of ACL entries, the Core Server has discovered an EntryType that it does not recognize. This should be impossible.
System Action: The event is logged and the Core Server halts.
Administrator Action: Restart the Core Server. The offending ACL entry should be deleted.

CORE1188 Error %d was returned by GetDotDot in %s.

Source Files Generating Error Message: ns_TraversePath.c.

Problem Description: While parsing a client's pathname one of the path components was discovered to be DotDot. While attempting to get the DotDot directory the Core Server received an error.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1189 Error %d was returned by the recursive call to PathRecurser.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: The Core Server uses a recursive algorithm to parse pathnames. Either one of these recursive calls returned an error, or the Core Server is processing a symbolic link component.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1194 Bad ACL EntryType %d detected in %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: The client submitted an ACL entry whose EntryType is not in the legal range of valid EntryTypes.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1197 An attempt was made to add ACL(s) that would result in a higher MaskObj. Section %s. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The result of calculating the new MaskObj after adding ACL entries would be to activate currently ineffective permissions. This is not allowed.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1198 An attempt was made to set the %s with illegal perms (0x%x) in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: One or more ACL entries were submitted to the Core Server containing illegal permission bits.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1200 Bad status %d from ns_SearchForName.

Source Files Generating Error Message: ns_Delete.c, ns_Rename.c, ns_Update.c.
Problem Description: The call to SearchForName did not return the expected result.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1201 Not allowed to set field %d in %s.

Source Files Generating Error Message: ns_AttrPackage.c.

Problem Description: An attempt was made to set an attribute field that cannot be modified. Perhaps the field is a FilesetAttrs field which cannot be changed through this interface. If so, try the appropriate interface.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1202 EntryId %d is not a legal group for UID %d in record 0x%08x%08x: %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: The client is trying to change the GroupObj, but is not a member of the group they are trying to change to.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1203 Only the owner or someone with %s permission can update the %s in %s. Not UID %d.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An attempt was made to set an attribute field that only the owner or a client with Control or Write permission can set.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1204 Only a Trusted user can perform the indicated operation: %s in %s.

Source Files Generating Error Message: ns_AttrPackage.c, ns_ReadDir.c.
Problem Description: An attempt was made to set an attribute field that only a Trusted user can set.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1205 Error: not file object.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An attempt was made to set a file attribute in a non-file object.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1207 Error: GID %d is not in GID list in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: A client attempted to set the GID field to a group that the client is not a member of.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1208 User with UID %d does not have permission to update the Comment in %s.

Source Files Generating Error Message: ns_AttrPackage.c.

Problem Description: The indicated user attempted to update the Comment field, but does not have Write access to the object.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1212 Bad object type %d was passed to %s.

Source Files Generating Error Message: ns_Create.c.
Problem Description: An attempt is being made to create a new object, but the type of the object is not recognized by ns_Create.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1214 Bad CORE_ATTR_* value %d was supplied in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An attempt was made to set or fetch an attribute field, however there is no attribute field that corresponds to one of the bits found in InAttrBits.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1216 File %s already exists in directory 0x%08x%08x, %s.

Source Files Generating Error Message: ns_Link.c.
Problem Description: An attempt was made to create a link, but an object with that name already exits.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1217 Error %d writing a text entry.

Source Files Generating Error Message: ns_Create.c.
Problem Description: An attempt was made to write symbolic link data or a Comment to the Text table, but an error was received from ns_WriteTextRecord.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1218 Generation numbers 0x%x (Client) and 0x%x (ObjectRec) don't match for object 0x%08x%08x.

Source Files Generating Error Message: ns_Create.c.
Problem Description: The Generation number in the client's object handle does not match the Generation number in the object record. They must match.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1219 Directory permissions inadequate.

Source Files Generating Error Message: ns_Create.c, ns_Link.c, ns_ReadDir.c, ns_Rename.c.
Problem Description: The client does not have sufficient directory permissions to perform the requested operation.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1220 File permissions inadequate.

Source Files Generating Error Message: ns_Create.c.
Problem Description: The permissions needed to access this object are inadequate.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1223 A directory must be supplied to ReadDir. Not Type 0x%02x, %s.

Source Files Generating Error Message: ns_ReadDir.c.
Problem Description: The client attempted to read entries from an object other than a directory. This just won't work.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1224 Entering %s. Request from UID %d RealmId %d. FilesetId %s, ObjId %s.

Source Files Generating Error Message: ns_CoreAPIs.c.
Problem Description: This message announces the entry into one of the Core Server's fileset manipulation APIs: ns_DeleteFileset, ns_GetFilesetAttrs, or ns_SetFilesetAttrs.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1225 Rename to already existing file.

Source Files Generating Error Message: ns_Rename.c.
Problem Description: An attempt was made to rename an object to a name that already exits.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1226 Requested rename would create orphan.

Source Files Generating Error Message: ns_Rename.c.
Problem Description: The requested rename, if carried out, would disconnect (orphan) a portion of the directory subtree.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1227 Same directory, but different generation numbers.

Source Files Generating Error Message: ns_Rename.c.

Problem Description: The client is attempting to rename an object leaving it in the same directory. However the object handles to the old and new directories, while having the same ObjectId, have different Generation numbers. This is an error.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1229 Error %d returned by ns_CheckACLs which was called from ns_AuthCheck.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: The Core Server is attempting to perform an authorization check and has received an error from ns_CheckACLs.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1231 Unknown type (%d) encountered in ACL entry associated with record 0x%08x %08x. %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: While processing ACLs an unknown ACL "type" was encountered in the ns_CheckACL function in the indicated object record.
System Action: The Core Server sets its state to MAJOR and contain.
Administrator Action: None.

CORE1232 Error %d was returned from %s in %s.

Source Files Generating Error Message: ns_ACLPackage.c, ns_Admin.c, ns_AttrPackage.c, ns_Auth.c, ns_CoreAPIs.c, ns_Create.c, ns_CredsPackage.c, ns_Delete.c, ns_FilesetPackage.c, ns_Find.c, ns_GetAttrs.c, ns_InitTables.c, ns_JunctionPackage.c, ns_Link.c, ns_MakeTicket.c, ns_MiscPackage.c, ns_ObjCachePackage.c, ns_ObjectIdPackage.c, ns_Pathname.c, ns_ReadDir.c, ns_Rename.c, ns_SecurityPackage.c, ns_SetAttrs.c, ns_ThreadsPackage.c, ns_TraversePath.c, ns_Update.c.
Problem Description: This is a very general error message that has been used in a multitude of places in the Core Server.
System Action: The error is logged and depending on the error, the Core Server may either continue or it may halt.
Administrator Action: None.

CORE1233 %s got an HPSS_EEXIST error. Attempting to delete the existing Text record.

Source Files Generating Error Message: ns_Create.c.
Problem Description: The Core Server attempted to write a Text record, but discovered that a Text record of this type already exists. This message is to log the fact that this occurred.
System Action: The Core Server logs the event and continues.
Administrator Action: No action is necessary.

CORE1234 Asked to delete non-existent ACL(s) entries from record 0x%08x%08x in %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: A list of ACLs to be deleted was passed to the Core Server. At least one of these ACLs does not exist in the Core Server's database.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1235 Illegal ACL perms (0x%x) were detected in ACL entry of type %d in %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: While updating ACLs the Core Server ensures that the client supplied ACL permissions are valid. Apparently invalid permissions were detected.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1237 The FilesetHandle for Junctions must be of type Directory in %s.

Source Files Generating Error Message: ns_Create.c.
Problem Description: When creating a Junction, an object handle known as the SubTreeHandle must be supplied. The Type of this SubTreeHandle must be of type Directory. Apparently this client's SubTreeHandle is of the wrong type.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1238 Junction and Fileset objects can only be created, deleted, and updated by the Root user. Not %d. %s.

Source Files Generating Error Message: ns_CoreAPIs.c, ns_Delete.c, ns_FilesetPackage.c.
Problem Description: Junction and Fileset objects can only be created, deleted, and updated by the Root user or a trusted user with Write permission. Apparently this user did not have sufficient permission.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1239 Delete option %d was requested, but object type was %d.

Source Files Generating Error Message: ns_Delete.c.
Problem Description: The ns_Delete API has an OptionFlags parameter that controls the behavior of the delete. Apparently this client set OptionFlags to a value that conflicts with the object being deleted.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1240 Illegal Delete option %d was detected.

Source Files Generating Error Message: ns_Delete.c.
Problem Description: The ns_Delete API has an OptionFlags parameter that controls the behavior of the delete. Apparently this user has set this OptionFlags parameter to an illegal value.

System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1242 The UUID in the Core Server object handle does not match the Core Server's UUID in %s.

Source Files Generating Error Message: ns_Create.c, ns_FilesetPackage.c.
Problem Description: The Core Server verifies that the UUID in all object handles is the correct UUID. It has discovered one that isn't.
System Action: If the Core Server discovers a bad UUID in a client supplied object handle, it merely logs the event and continues. However if it discovers a bad UUID in its FilesetAttrs file, it halts.
Administrator Action: If the Core Server has halted, it may be necessary to find and repair the bad UUID in the FilesetAttrs file. Restart the Core Server if appropriate.

CORE1244 An attempt was made to set the read-only field %s in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: Certain Object record fields are read-only. An attempt was made to set one of these fields.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE1245 Addition of this object would cause the LinkCount field to overflow in %s.

Source Files Generating Error Message: ns_Create.c, ns_Link.c, ns_Rename.c.
Problem Description: The link count field is only 16-bits wide. Addition of this object would cause this field to overflow.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1246 Illegal Option 0x%08x was passed to %s.

Source Files Generating Error Message: ns_AttrPackage.c, ns_CoreAPIs.c.
Problem Description: Certain Core Server APIs have an Option or OptionFlags parameter. Apparently the client supplied an illegal Option or OptionFlags value to the indicated function.
System Action: The Core Server logs the error and continue.
Administrator Action: None.

CORE1247 PathName too long while processing %s error in %s: %d.

Source Files Generating Error Message: ns_TraversePath.c.
Problem Description: While attempting to parse a clients input PathName the Core Server has encountered an error. When certain of these errors occur, the Core Server attempts to return the RemainingPath. However it has discovered that the PathName is now too long to fit into the RemainingPath data structure. This can happen when PathNames contain symbolic links.
System Action: The Core Server logs the error and continues.

Administrator Action: None.

CORE1250 An attempt was made to delete the root fileset at location %d in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The client has attempted to delete the root fileset. This is the only fileset that cannot be deleted.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1251 %s cannot be NULL in %s.

Source Files Generating Error Message: ns_CoreAPIs.c, ns_FilesetPackage.c, ns_Link.c.
Problem Description: Certain parameters cannot be NULL or empty. For example, if asking for output attributes, the parameter that will hold these attributes cannot be set to NULL. In addition, if making a fileset, the input fileset name cannot be empty.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1252 %s mismatch from %s in %s.

Source Files Generating Error Message: ns_CoreAPIs.c, ns_InitTables.c.
Problem Description: There are several APIs which allow both a fileset handle and a FilesetId to be supplied. In these cases the Core Server ensures that the fileset handle and the FilesetId both point to the same fileset. In addition, during initialization the Core Server compares the handle to the root fileset found in the FilesetAttrs file against the "real" fileset root handle. If they don’t compare, the above message results.
System Action: If the error is detected while comparing client supplied fileset handles and FilesetIds, the Core Server logs the error and continues. However if the error is detected during initialization, the Core Server halts.
Administrator Action: If the Core Server halts, it may be necessary to repair the bad FilesetAttrs field. NSDE can be used to make such repairs.

CORE1253 The %s is/are required in the Input Attributes in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: Certain parameters are required when performing certain Core Server API functions. Apparently one or more of these parameters were omitted when the indicated function was requested.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1254 String %s cannot be empty in %s.

Source Files Generating Error Message: ns_Rename.c

Problem Description: When moving an object into the trash, the object's name and its parent name are expected to be non-empty. Any other usage is a violation of this function's conditions.
System Action: The rename into the trash fails, the Core Server logs the error and continues.
Administrator Action: Contact HPSS support.

CORE1256 Unable to locate %s Cache entry that should be present in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: An internal consistency check has failed. The Core Server has searched its fileset cache for an entry that it thinks should be in the cache, but has not been able to find it.
System Action: In one case, the Core Server sets its state to SUSPECT and in another case it sets its state to MAJOR. In both cases, the Core Server logs the event and continues.
Administrator Action: None.

CORE1257 Error %d attempting to add Fileset to Cache in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server attempted to add a new fileset entry to its cache, but suffered an error.
System Action: If this error is encountered during initialization, the Core Server halts. Otherwise the Core Server logs the error and continues.
Administrator Action: None.

CORE1258 Changing Fileset's %s from %s to %s in Fileset %s with name '%s'.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: Whenever any fileset attributes are changed, the Core Server announces these changes. This is such an announcement.
System Action: The event is logged and the Core Server continues.
Administrator Action: None.

CORE1259 An attempt was made to delete the root directory in %s.

Source Files Generating Error Message: ns_Delete.c.
Problem Description: The Core Server received a client request to delete the root fileset. The root fileset cannot be deleted.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1260 An attempt was made to set unsupported %s in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: The client attempted to set fileset StateFlag bits that are not supported.
System Action: The Core Server logs the error and continues.

Administrator Action: None.

CORE1261 Only a Trusted user can change the EntryId or RealmId fields in the USER_OBJ: ACL.EntryId=%d, Obj.UID=%d, ACL.RealmId=%d, Obj.RealmId=%d, ObjectId=0x%08x%08x:%s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: An attempt was made to change the UID or RealmId fields of the USER_OBJ ACL entry. Only Root is allowed to make such a change. All of the particulars of the attempt are in the log message.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1262 Both the FilesetHandle and the FilesetId were NULL in %s.

Source Files Generating Error Message: ns_CoreAPIs.c, ns_FilesetPackage.c.
Problem Description: A client is attempting to either delete a fileset, get fileset attributes, or set fileset attributes. When performing these operations the Core Server requires that the client supply a FilesetHandle or a FilesetId. Apparently the client supplied neither.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1266 Attempting to change %s fileset name '%s' or FilesetId 0x%08x%08x to fileset name '%s' or FilesetId 0x%08x%08x in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The client is attempting to change either the FilesetId, the fileset name, or both. This is an informative message announcing this attempt.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1267 WARNING: %s is out of range (%d) in %s. Fixed.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server keeps statistics on its fileset cache usage. If any of these statistics ever wander out of range, the Core Server fixes them. This message announces that such a statistic was found and fixed.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1269 Fileset with name '%s' has a bad GatewayUUID in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An attempt was made to change a GatewayUUID in the indicated fileset. However, the Core Server could not decipher the GatewayUUID it found in its cache!
System Action: The Core Server logs the error and continues.
Administrator Action: It may be necessary to restart the Core Server.

CORE1270 A bad input %s was detected in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: An attempt was made to change a GatewayUUID in a fileset. However, the Core Server could not decipher the input GatewayUUID.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1271 The HowMany parameter is zero in %s.

Source Files Generating Error Message: ns_FilesetPackage.c, ns_JunctionPackage.c.
Problem Description: The ns_ReadFilesetAttrs, ns_ReadGlobalFilesets, and ns_ReadJunctionPathNames APIs all have a HowMany parameter. The HowMany parameter tells the Core Server how many entries are to be returned to the client. This parameter was detected to be zero.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1272 The Fileset is marked DESTROYED and cannot be accessed in %s. IntendedOp: 0x%08x, Perms: 0x%08x.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The FilesetAttrs StateFlags for this fileset have the Destroyed bit on. A fileset whose StateFlags have the Destroyed bit on can only be accessed by very powerful users.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1273 The Fileset permissions do not allow %s. From %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: An attempt was made to access a fileset whose FilesetAttrs StateFlags indicate that such access is not permitted. The FilesetAttrs StateFlags have bits which indicate Read permission, Write permission, and a Destroyed state. The client has apparently run afoul of these access bits.
System Action: The Core Server logs the error and continues.
Administrator Action: It may be necessary to change the access allowed by the StateFlags. The SSM can be used for this purpose.

CORE1276 Attempt to set the FilesetName failed because the new name was too long.

Source Files Generating Error Message: ns_AttrPackage.c, ns_FilesetPackage.c.
Problem Description: An attempt was made to change the fileset name, but the character length of the new name was longer than NS_FS_MAX_FS_NAME_LENGTH characters.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1278 The random number generator won't generate non-zero numbers in %s.

Source Files Generating Error Message: ns_MiscPackage.c.
Problem Description: The Core Server puts a non-zero random number into the GenerationNumber field of all object handles. It tests each number produced by the random number generator to ensure that zero is not used. If a zero is returned, the Core Server will retry 10 times to get a non-zero number. Apparently 10 consecutive zeros were returned.
System Action: The Core Server halts.
Administrator Action: Verify that the operating system is functioning properly. Restart the Core Server.

CORE1283 Found %s entry in FS cache table. %s error. FSId=0x%08x%08x, ObjectId=0x %08x%08x. %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server was asked to add a fileset entry to its cache, but discovered that an entry with this same FilesetId already exists in the cache.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1285 The %s was negative in the cached copy of Fileset 0x%08x%08x. The cached copy was corrected in %s.

Source Files Generating Error Message: ns_ThreadsPackage.c.
Problem Description: For each type of object in a fileset, the Core Server maintains a Count in the FilesetAttrs record associated with that fileset. If any of the Counts in any of these filesets becomes negative, the Core Server sets this count to zero and logs this message.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1286 The %s must be supplied in the %s when creating %s in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: When creating a fileset, the UID and GID must be supplied in the InAttrs parameter. Apparently one or the other or both were missing.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1289 Couldn't find fileset 0x%08x%08x while trying to restore it in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server was attempting to copy a fileset cache entry, but the fileset cache entry could no longer be found in the cache. This was unexpected.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1290 Fileset cache entry not found in cache after seeing it in there in %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server was attempting to fetch a copy of a fileset cache entry, but could not find the entry after seeing it just a short time before. This was unexpected.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1295 Couldn't find fileset 0x%08x%08x in the cache in %s.

Source Files Generating Error Message: ns_ThreadsPackage.c.
Problem Description: The Core Server is attempting to update the Count fields in the cached copy of one of the FilesetAttrs records. However it cannot find the record in the cache.
System Action: We log this interesting incident and continue.
Administrator Action: None.

CORE1296 Consistency check failure in %s: Case=%d, SourceL=%d, SinkL=%d.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: When copying fileset cache fields there are two major cases and with these two major cases there are several sub-cases. Apparently we have encountered a case that is not covered by the existing code.
System Action: We attempt to log all of the relevant information and then the Core Server halts.
Administrator Action: Record the information and then restart the Core Server.

CORE1298 Attempt to create %s by non-root/non-privileged client %d in %s.

Source Files Generating Error Message: ns_Create.c, ns_FilesetPackage.c.
Problem Description: Only the Root user or a trusted user with write permission can create Filesets or Junctions.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1300 Fileset record whose root object is at ObjectId 0x%08x%08x could not be found in %s.

Source Files Generating Error Message: ns_Link.c.
Problem Description: The Core Server is searching for a fileset cache entry, but cannot find it in the cache. In this particular case, the Core Server is trying to find the entry by ObjectId.
System Action: The Core Server sets its operational state to SUSPECT, logs the event, and continues.
Administrator Action: None.

CORE1301 Attempt to link file in FS 0x%08x%08x to dir 0x%08x%08x in FS 0x%08x%08x in %s.

Source Files Generating Error Message: ns_Link.c.
Problem Description: An attempt was made to create a link to a file in a fileset different from the one containing the file. This is not allowed.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1311 Error %d from %s %s FS %s (0x%08x%08x in %s.

Source Files Generating Error Message: ns_InitTables.c.
Problem Description: The Core Server is initializing. During this initialization process the Core Server has encountered an error while reading a FilesetAttrs record or while creating a GlobalFileset record.
System Action: The Core Server halts.
Administrator Action: Ensure that db2 is functioning properly and then restart the Core Server.

CORE1315 The FilesetCache was reloaded on %s in %s.

Source Files Generating Error Message: ns_Admin.c.
Problem Description: The Core Server has been asked to reload the fileset cache. This is a somewhat unusual request and so, it is worthy of logging.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1316 In %s an attempt was made to rename an object into a different fileset.

Source Files Generating Error Message: ns_Rename.c.
Problem Description: Core Server objects can only be renamed within the same fileset. Apparently a client attempted to rename an object located in one fileset into some other fileset.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1317 Consistency check failure. ObjRecord 0x%08x%08x is supposed to be a Junction in %s.

Source Files Generating Error Message: ns_JunctionPackage.c.
Problem Description: The Core Server is attempting to read all of the Junction objects from the database. It examines each object as it is read. It has discovered an object that is not a Junction. This should be impossible.
System Action: The Core Server halts.
Administrator Action: Send this and any related log messages to your site representative. Restart the Core Server.

CORE1321 An invalid FilesetId (0x%08x%08x) was passed to %s.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server has been asked to change the root FilesetId, but the new FilesetId does not have the upper bit (in a 64-bit word) turned on.

System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1324 Bad %s parameter(s) supplied to %s where %s = '%s'.

Source Files Generating Error Message: ns_FilesetPackage.c.
Problem Description: The Core Server is about to modify either the fileset name and/or the FilesetId and is consistency checking the input parameters. Apparently one or more of them are NULL.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server.

CORE1327 An attempt was made to set the FamilyId in %s.

Source Files Generating Error Message: ns_AttrPackage.c.
Problem Description: The FamilyId can only be set at object creation time. The Core Server has detected an attempt to set it in an existing object. This cannot be done.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1329 Access denied: IntendedOp=0x%02x, AvailablePerms=0x%02x, %s. %s.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: For all client requests, the Core Server checks the object access permissions to determine if the client has sufficient permission to perform the operation. Apparently this client did not have sufficient permission. The Core Server attempts to write a very detailed log entry with the hope that this log entry will help to determine the exact reason that access was denied to this client.
System Action: The Core Server logs the error and continues.
Administrator Action: None.

CORE1336 An attempt was made to add an UNAUTHENTICATED mask entry in %s. These entries are obsolete.

Source Files Generating Error Message: ns_ACLPackage.c, ns_Auth.c.
Problem Description: The client supplied ACL to either ns_SetACL or ns_UpdateACL contained an Unauthenticated mask entry. Unauthenticated mask entries are obsolete.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1338 A PathName parameter must be supplied when creating an object in %s.

Source Files Generating Error Message: ns_Create.c.
Problem Description: Whenever any Core Server object is created, a PathName must be supplied. Apparently someone forgot this rule.
System Action: The name Server logs the event and continues.
Administrator Action: None.

CORE1339 PathName parameters must be supplied when renaming an object in %s.

Source Files Generating Error Message: ns_Rename.c.
Problem Description: When renaming an object both the old and new pathnames must be supplied. Apparently one or the other or both were not supplied.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1340 In %s user with UID %d attempted to modify fileset %s which does not have the write bit on in the StateFlags.

Source Files Generating Error Message: ns_ACLPackage.c, ns_Delete.c, ns_Link.c, ns_Rename.c, ns_SetAttrs.c.
Problem Description: An attempt is being made to modify a ReadOnly fileset. Only the Root user is allowed to do this.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1341 An attempt was made to delete the root node of fileset (0x%08x%08x) through the ns_Delete interface. This is not allowed. Use ns_DeleteFileset. %s.

Source Files Generating Error Message: ns_Delete.c.
Problem Description: The ns_Delete API cannot be used to delete the root nodes of filesets. Use ns_DeleteFileset instead.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1343 The ACL attached to object record 0x%08x%08x is damaged. %s is missing. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: Every Initial Container and Initial Object ACL is supposed to contain a UserObj, GroupObj, and OtherObj ACL entry. Apparently the indicated ACL is missing at least one of these required ACL entries.
System Action: The Core Server sets its operational state to MAJOR, logs the event, and then continues.
Administrator Action: It would be interesting to look at the Initial Container and Initial Object ACLs on the indicated Object record to see if the required entries are indeed missing. If any are missing, the ACL should be repaired or recreated.

CORE1344 ACL entries cannot be attached to object record 0x%08x%08x of type %d. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: A client has attempted to fetch or update ACL entries on an object of a type that does not support ACL entries.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1346 Illegal ACLType value (0x%08x) in %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: There are three ACL types: Initial Container, Initial Object, and Object. It should be impossible to get any other type. Apparently the impossible has happened.
System Action: In some case the Core Server halts and in other cases it does not.
Administrator Action: Collect any related log messages and send them to your site representative. If the Core Server has halted restart it.

CORE1348 An attempt was made to delete %s ACLs, but ObjRecord 0x%08x%08x does not have any. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: An attempt was made to delete either an Initial Container ACL or an Initial Object ACL from the indicated Object record, but that Object record does not have an ACL of that kind.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1349 An attempt was made to delete a NEEDED MaskObj from ObjRecord 0x%08x %08x. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: When an ACL contains certain ACL entries, a MaskObj ACL entry must also be added to the ACL. Anyone attempting to delete a MaskObj from an ACL that requires a MaskObj will receive the above error.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1350 Added a MaskObj to ACL of type %d in ObjRecord 0x%08x%08x. It was missing. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server is processing an ns_DeleteACL request on either an Initial Container or an Initial Object ACL and has reached the point where it is about to write the resulting ACL back to disk. However, before it writes the ACL, the Core Server examines the MaskObj ACL entry. It has discovered that this ACL requires a MaskObj, but doesn’t have one. It is correcting this deficiency.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1351 Illegal MaskObj calculation option (0x%08x) was passed to %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The calculation of the MaskObj is controlled by three options: HPSS_ACL_DON’T_CALC_MASK, HPSS_ACL_CALC_MASK_IGNORE_ERRORS, and HPSS_ACL_PURGE_MASKED_PERMS. Only one of these options can be used at one time. Apparently someone tried to use more than one.
System Action: The Core Server logs the event and continues.

Administrator Action: None.

CORE1352 The supplied ACL entry does not match an existing ACL entry, but contains LEAVE_EXISTING type constants. ObjRecord 0x%08x%08x. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server has received a request to update either an Initial Container or an Initial Object ACL. However, the client's input ACL contains an entry that does not match any of the existing entries. In addition, this input ACL entry contains one of the LEAVE_EXISTING constants. This ACL entry cannot be added to any ACL.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1353 Sanity check failure- an ACL was empty when it should never be. ACLType %d. ObjRecord 0x%08x%08x. %s.

Source Files Generating Error Message: ns_ACLPackage.c.
Problem Description: The Core Server is attempting to update either an Initial Container or an Initial Object ACL. While attempting to find the end of an ACL, one of its internal pointers is discovered to be NULL.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server. Examine the indicated ACL attached to the indicated Object record. The tools magic and nsde can be used to perform this examination.

CORE1355 While attempting to create an object of type %d, the %s entry from the parent dir 0x%08x%08x Initial Creation ACL was not found. %s. This ACL should be repaired.

Source Files Generating Error Message: ns_Create.c.
Problem Description: The Core Server was attempting to create an object in a Directory that has either an Initial Container ACL or an Initial Object ACL. While building the new Object ACL from one of these Initial Creation ACLs, the Core Server discovered that the Initial Creation ACL did not contain either the UserObj, GroupObj, or the OtherObj ACL entries.
System Action: The Core Server logs the event, sets its state to SUSPECT, and continues.
Administrator Action: Examine the indicated ACL and attempt to make any needed repairs. The tools magic and nsde can be used to make these repairs.

CORE1359 A bad ObjectType (%d) was passed to %s.

Source Files Generating Error Message: ns_Create.c, ns_ThreadsPackage.c.
Problem Description: The Core Server has the following basic object types: directories, files, symbolic links, junctions, and hard links. A type other than one of these types has been discovered in an Object record.
System Action: The Core Server halts.
Administrator Action: Restart the Core Server.

CORE1362 An attempt was made to get SymLink data from an object that isn't a SymLink in %s.

Source Files Generating Error Message: ns_Find.c.
Problem Description: A client is requesting that symbolic link data be returned from an object that is not a symbolic link.
System Action: The Core Server logs the event and continues.
Administrator Action: None.

CORE1363 Both the ObjectId and the BitfileId were %s in the call to %s.

Source Files Generating Error Message: ns_Pathname.c.
Problem Description: The PathName Cache entries are indexed by BitfileId and by ObjectId. A request to build a PathName may contain either a BitfileId or an ObjectId. It cannot contain both. A request was received that contained NULL for both of these parameters, or it contained non-NULL values for both of these parameters. Either case is illegal.
System Action: The Core Server halts.
Administrator Action: Send this and any related log messages to your site representative. Restart the Core Server.

CORE1364 Received error %d from %s in %s. FirstTime = %d.

Source Files Generating Error Message: ns_Pathname.c.
Problem Description: The Core Server is attempting to read a PathName Cache entry from disk to its cache, but has received an error.
System Action: In one case the Core Server halts, but in another case it continues.
Administrator Action: Ensure that db2 is running correctly. Restart the Core Server as appropriate.

CORE1365 Consistency check failure in %s. Should never have reached this point.

Source Files Generating Error Message: ns_Auth.c.
Problem Description: The Core Server is attempting to determine the 'order' of some ACL entries and is using a 'switch' statement to examine the ACL entry type field. It should be impossible to fall out of the switch statement.
System Action: The Core Server logs an alarm message and halts.
Administrator Action: Collect any relevant log messages and send them to your site representative. Restart the Core Server.

CORE2001 Internal software error, %s.

Source Files Generating Error Message: core_InitBFS.c, core_Log.c, bfs_Acct.c, bfs_Asynch.c, bfs_Batch.c, bfs_BfOpenContext.c, bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_CheckpointSeg.c, bfs_Clear.c, bfs_Close.c, bfs_CopyBatchMigr.c, bfs_CopyCommon.c, bfs_CopyData.c, bfs_Create.c, bfs_DiskMap.c, bfs_LockRtns.c, bfs_LogPath.c, bfs_Migrate.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_ReadData.c, bfs_SegmentsCache.c, bfs_SetDataLen.c, bfs_Stage.c, bfs_WriteDisk.c, bfs_WriteTape.c.

Problem Description: An unexpected situation occurred in the BFS component of the Core Server . This situation usually indicates an HPSS software problem.
System Action: Often the Core Server crashes.
Administrator Action: Restart the server and contact HPSS support.

CORE2002 Attempt to convert bad bitfile handle, %s.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: A bitfile handle passed to the bitfile service is invalid.
System Action: An error is returned to the client and the Core Server continues..
Administrator Action: This is likely a client error. If the problem persists, attempt to investigate it. It may be necessary to contact HPSS support.

CORE2003 Close call failed in connection shutdown UID %u GID %u.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: A call to bfs_Close has failed while attempting to disconnect from a client.
System Action: This message, which includes the uid and gid of the file for which the close failed, is logged and processing continues.
Administrator Action: If the problem persists, attempt to investigate it. It may be necessary to contact HPSS support.

CORE2004 Begin session to storage service failed.

Source Files Generating Error Message: core_Log.c, bfs_Misc.c.
Problem Description: A call to the BeginSession routine in the Storage Service component of the Core Server has failed.
System Action: The associated operation fails, an error is returned to the client, and a message is logged.
Administrator Action: If the problem persists, attempt to investigate it. It may be necessary to contact HPSS support.

CORE2005 Bitfile striping is not yet implemented.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: An invalid HPSS IOD indicating an attempt to stripe a transfer across multiple bitfiles was received. This is an unsupported capability. HPSS provided clients do not use this.
System Action: Reject the request with HPSS_EINVAL error.
Administrator Action: Check for locally developed clients that are attempting to perform this type of operation.

CORE2006 Initialization error. The call to hpss_Getenv failed to find environment variable %s.

Source Files Generating Error Message: core_InitBFS.c.
Problem Description: During initialization, the BFS attempted to retrieve a value from an environment variable, but the environment variable was empty.

System Action: The error is logged, and the Core Server halts.
Administrator Action: Ensure that the indicated environment variable is properly initialize, and then restart the Core Server.

CORE2007 Elements of stripe are inconsistent.

Source Files Generating Error Message: core_Log.c, bfs_Misc.c.
Problem Description: An invalid HPSS IOD was received with an badly formed stripe address.
System Action: Reject the request with HPSS_EINVAL.
Administrator Action: This is a client error. This error should not occur in clients that have been provided by HPSS. Check for locally developed clients that are behaving improperly.

CORE2008 Different files addressed, processed.

Source Files Generating Error Message: core_Log.c, bfs_Misc.c.
Problem Description: An invalid HPSS IOD was received with more than one bitfile addressed in the IOD.
System Action: Reject the request with HPSS_EINVAL.
Administrator Action: This is a client error. This error should not occur in clients that have been provided by HPSS. Check for locally developed clients that are behaving improperly.

CORE2009 Only SSEG_ADDRESS allowed, this layer.

Source Files Generating Error Message: core_Log.c, bfs_Misc.c.
Problem Description: An invalid HPSS IOD was detected by the BFS component of the Core Server.
System Action: Reject the request with HPSS_EINVAL.
Administrator Action: This is a client error. This error should not occur in clients that have been provided by HPSS. Check for locally developed clients that are behaving improperly.

CORE2010 Stripe address type is wrong type.

Source Files Generating Error Message: core_Log.c, bfs_Misc.c.
Problem Description: An invalid HPSS IOD was detected by the Core Server. This IOD contains an invalid type for the stripe address.
System Action: The request is rejected with an HPSS_EINVAL error.
Administrator Action: This is a client error. This error should not occur in clients that have been provided by HPSS. Check for locally developed clients that are behaving improperly.

CORE2011 IOD LFT (Uid, Gid or RealmId) does not match user credentials.

Source Files Generating Error Message: bfs_Misc.c.

Problem Description: An IOD associated with a local type file operation was received and the user identification information does not match the user's authenticated credentials.
System Action: Reject the request with HPSS_EPERM.
Administrator Action: None.

CORE2012 Only Net, IPI, PFS addresses allowed.

Source Files Generating Error Message: core_Log.c, bfs_Misc.c.
Problem Description: An invalid HPSS IOD specifying a non-supported network address type was received.
System Action: Reject the request with HPSS_EINVAL.
Administrator Action: This is a client error. This error should not occur in clients that have been provided by HPSS. Check for locally developed clients that are behaving improperly.

CORE2013 BFS tracing: %s.

Source Files Generating Error Message: core_ConnectBFS.c, bfs_Acct.c, bfs_Asynch.c, bfs_COS.c, bfs_DiskMap.c, bfs_Migrate.c, bfs_Misc.c, bfs_Read.c, bfs_SClass.c, bfs_WriteDisk.c.
Problem Description: There is no problem. This is a general trace message from the BFS component of the Core Server.
System Action: Log this error message.
Administrator Action: None.

CORE2014 Error processing storage segment unlink record.

Source Files Generating Error Message: core_Log.c, bfs_Clear.c, bfs_Misc.c.
Problem Description: A metadata operation that is processing a record in the BFSSUNLINK table failed.
System Action: The associated operation will be terminated with an error and the message is logged.
Administrator Action: Ensure that db2 is operating correctly. If the problem persists, it may be necessary to contact HPSS support.

CORE2015 %d ENOENT errors on storage segment delete call.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: ENOENT errors were detected while attempting to unlink HPSS storage segments. This should happen infrequently, but can occur occasionally. The Core Server automatically recovers from this error.
System Action: The event is logged.
Administrator Action: If the error occurs frequently, it may warrant checking with HPSS support.

CORE2016 End session call to storage service failed.

Source Files Generating Error Message: core_Log.c, bfs_Close.c, bfs_CopyData.c, bfs_Migrate.c.
Problem Description: An attempt to end a session with the Storage Service component of the Core Server failed.
System Action: The associated operation terminates and the message is logged.
Administrator Action: Attempt to investigate the problem. If the problem persists, contact HPSS support.

CORE2017 Error in processing migration record table.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: A metadata error occurred while processing the BFMIGRREC table.
System Action: Terminate the associated operation and log this message.
Administrator Action: Attempt to investigate the problem. If the problem persists, contact HPSS support.

CORE2018 Error in processing purge record table.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: A metadata error occurred while processing the BFPURGEREC table.
System Action: Terminate the associated operation and Log this error message.
Administrator Action: Attempt to investigate the problem. If the problem persists, contact HPSS support.

CORE2019 BFS open call failed.

Source Files Generating Error Message: bfs_Asynch.c, bfs_COS.c, bfs_Migrate.c.
Problem Description: A call to the bfs_Open routine in the Core Server failed.
System Action: The operation is terminated and the message is logged.
Administrator Action: Investigate the specific error code and contact HPSS support if needed.

CORE2020 BFS close call failed.

Source Files Generating Error Message: bfs_Asynch.c, bfs_COS.c, bfs_Migrate.c.
Problem Description: A call to the bfs_Close routine in the Core Server failed.
System Action: The operation is terminated and the message is logged.
Administrator Action: Investigate the specific error code and contact HPSS support if needed.

CORE2021 Error in uuid hash call, status =%d.

Source Files Generating Error Message: bfs_Asynch.c, bfs_Batch.c, bfs_BfCache.c, bfs_LockRtns.c, bfs_LogPath.c.
Problem Description: The uuid_hash function failed while attempting to hash an HPSS provided SOID.

System Action: The message is logged and, depending on the situation, the Core Server may terminate.
Administrator Action: Restart the Core Server is it has crashed. If the problem persistes, contact HPSS support.

CORE2022 Socket creation (socket) failed.

Source Files Generating Error Message: core_Log.c, bfs_Asynch.c, bfs_CopyBatchMigr.c, bfs_CopyCommon.c, bfs_CopyData.c.
Problem Description: An attempt to create a UNIX network socket failed.
System Action: The associated operation is terminated and the message is logged.
Administrator Action: Examine the specific error code to determine the nature of the problem. If needed, contact HPSS support.

CORE2023 Setting of socket option (setsockopt) failed.

Source Files Generating Error Message: core_Log.c, bfs_Asynch.c, bfs_CopyCommon.c.
Problem Description: An attempt to set options on a UNIX network socket failed.
System Action: The associated operation is terminated and the message is logged.
Administrator Action: Examine the specific error code to determine the nature of the problem. If needed, contact HPSS support.

CORE2024 Socket connection request failed, %s.

Source Files Generating Error Message: bfs_Asynch.c, bfs_CopyBatchMigr.c, bfs_CopyData.c.
Problem Description: An attempt to connect to a UNIX network socket failed.
System Action: The associated operation is terminated and the message is logged.
Administrator Action: Examine the specific error code to determine the nature of the problem. If needed, contact HPSS support.

CORE2025 Writing data to socket failed.

Source Files Generating Error Message: bfs_Asynch.c.
Problem Description: Writing data to a UNIX network socket failed.
System Action: The associated operation is terminated and the message is logged.
Administrator Action: Examine the specific error code to determine the nature of the problem. If needed, contact HPSS support.

CORE2026 No cache block for bitfile.

Source Files Generating Error Message: bfs_BfCache.c.
Problem Description: A search of the internal bitfile cache for a cache block for a bitfile failed.
System Action: Log this error message and terminate the Core Server.
Administrator Action: Restart the Core Server. This error indicates a software error in HPSS. Contact HPSS support.

CORE2027 Open context allocate failed, max bitfiles open.

Source Files Generating Error Message: core_Log.c, bfs_BfOpenContext.c.
Problem Description: The maximum number of bitfiles is open, and a client is attempting to open another one.
System Action: The open request terminates with an error.
Administrator Action: Consider increasing the max open bitfiles parameter for the Core Server. This problem can also be caused by locally written client routines that inappropriately leave bitfiles open.

CORE2028 Open context list is corrupted.

Source Files Generating Error Message: bfs_BfOpenContext.c.
Problem Description: The open context list in the Core Server is corrupted.
System Action: A message is logged and Core Server terminates.
Administrator Action: This indicates an HPSS software problem. Restart the Core Server and contact HPSS support.

CORE2029 BF handle on wrong connection, contact IBM support, caller=%s.

Source Files Generating Error Message: bfs_BfOpenContext.c.
Problem Description: While attempting to close a bitfile, the Core Server detected that the bitfile being closed is not open on the connection passed by the client.
System Action: Log a warning.
Administrator Action: This could be a problem in an HPSS client. If the problem persists, contact HPSS support.

CORE2030 Read bitfile descriptor metadata error.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_CheckpointSeg.c, bfs_Clear.c, bfs_CopyData.c, bfs_Migrate.c, bfs_Open.c, bfs_ReadData.c, bfs_Stage.c, bfs_Unlink.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: A metadata error occurred when reading a record from the BITFILE table.
System Action: The client request terminates and an error is returned.
Administrator Action: Examine the specific error code to determine the nature of the problem. If needed, contact HPSS support.

CORE2031 Exclusive lock on bitfile failed.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_Close.c, bfs_Open.c, bfs_Unlink.c.
Problem Description: An attempt to get an exclusive lock on a bitfile has failed.
System Action: This message is logged and the operation terminates.
Administrator Action: This error could very well be caused by an HPSS software problem. Contact HPSS support.

CORE2032 Find bitfile cache failed.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_Unlink.c.
Problem Description: An attempt to locate an entry in the bitfile cache failed.
System Action: Log this message and terminate the client request.
Administrator Action: This error could very well be caused by an HPSS software problem. Contact HPSS support.

CORE2033 Error searching hierarchy table, id=%d.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_Migrate.c, bfs_Open.c, bfs_SetDataLen.c, bfs_Stage.c.
Problem Description: An error occurred while searching for an entry in the internal BFS hierarchy table.
System Action: Log this message and terminate the client request.
Administrator Action: This could be caused by an invalid configuration. Look for a COS that points to a non-existent hierarchy and, if such a COS is found, correct the configuration. Otherwise contact HPSS support.

CORE2034 Error searching sclass table, id=%d.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_Migrate.c, bfs_Open.c, bfs_SetDataLen.c.
Problem Description: An error occurred searching for an entry in the internal BFS storage class table.
System Action: This error message is sent to the log and the operation terminates..
Administrator Action: This could be caused by an invalid configuration. Look for a hierarchy that points to a non-existent storage class and, if such a hierarchy is found, and correct the configuration. Otherwise contact HPSS support.

CORE2035 Invalid bitfile handle.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_COS.c, bfs_Close.c.
Problem Description: An attempt to convert a user provided bitfile handle into a Core Serverinternal open context block has failed.
System Action: This error message is sent to the log and the associated operation terminates.
Administrator Action: This is probably caused by a user error. If the problem persists, check for problems with any locally developed clients.

CORE2036 Storage segment get attributes call failed.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_CheckpointSeg.c, bfs_CopyCommon.c, bfs_WriteTape.c.
Problem Description: An attempt to get the attributes of a storage segment has failed in the Core Seerver.
System Action: Send this error message to the log and terminate the operation.

Administrator Action: Look through the log for specific error codes and call HPSS support if needed.

CORE2037 Virtual volume get attributes call failed.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c.
Problem Description: An attempt to get virtual volume attributes in the Core Server failed.
System Action: Send this error message to the log and terminate the operation.
Administrator Action: Look through the log for specific error codes and call HPSS support if needed.

CORE2038 Invalid info in sclass table, class_id=%d.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BuildDesc.c, bfs_CalcStorageBytes.c, bfs_Clear.c, bfs_Close.c, bfs_CopyData.c, bfs_Migrate.c, bfs_Purge.c, bfs_ReadData.c, bfs_SegmentsCache.c, bfs_SetDataLen.c, bfs_Write.c.
Problem Description: This message is generated when the storage class type field is not disk or tape.
System Action: This error message is sent to the log and the Core Server terminates..
Administrator Action: This should not occur as long as standard HPSS facilities are being used to configure your storage classes. If error occurs, correct the bad configuration.

CORE2039 Set current position not allowed.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c.
Problem Description: A client is attempting to set the current position with a call to bfs_BitfileSetAttrs. This is not allowed.
System Action: The request terminates with the error HPSS_EINVAL.
Administrator Action: None.

CORE2040 Preallocate not allowed: %s.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c.
Problem Description: An invalid prealloc call on a file is being attempted. Either the file is not open or the file is not stored in a hierarchy with disk as the top level.
System Action: Return HPSS_EINVAL to the caller.
Administrator Action: None.

CORE2041 BFS debug = %s.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c, bfs_DiskMap.c, bfs_GK.c, bfs_Migrate.c, bfs_Misc.c, bfs_SegmentsCache.c, bfs_WriteDisk.c.
Problem Description: Generic debug message. No problem.
System Action: Log this error message.
Administrator Action: None.

CORE2042 Bitfile set attributes call failed.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c.
Problem Description: A bitfile set attrs call to the BFS component of the Core Server failed.
System Action: Log message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine cause of problem and call HPSS support if needed.

CORE2043 Update bitfile descriptor metadata failed.

Source Files Generating Error Message: bfs_Acct.c, bfs_BitfileSetAttrs.c, bfs_COS.c, bfs_Clear.c, bfs_Close.c, bfs_CopyData.c, bfs_CopyFile.c, bfs_Migrate.c, bfs_Open.c, bfs_Purge.c, bfs_ReadData.c, bfs_Stage.c, bfs_Unlink.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An attempt to update a record in the BITFILE table failed.
System Action: Log this message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the problem and call HPSS support if needed.

CORE2044 Failed to reload segment cache during transaction abort recovery.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c, bfs_Clear.c, bfs_CopyData.c, bfs_CopyFile.c, bfs_Migrate.c, bfs_Open.c, bfs_Purge.c, bfs_ReadData.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: The Core Server attempted to reload an entry into its segment cache, but the attempt failed.
System Action: Log this error message and terminate the Core Server.
Administrator Action: Attempt to examine the specific error code to determine cause of problem and contact HPSS support if needed.

CORE2045 Failure in deleting COS change record.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c, bfs_COS.c.
Problem Description: The Core Server attempted to delete a record from the BFCOSCHANGE table. The attempt failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the error code to determine the cause of the failure and contact HPSS support if necessary.

CORE2046 Max file size exceeds that allowed by COS %d.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c, bfs_Clear.c, bfs_SetDataLen.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An attempt was made to store a file that exceeds the maximum file size allowed by a COS.
System Action: This error message is logged and an error is returned to the user.
Administrator Action: None.

CORE2047 Failure in creating a COS change record.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c.
Problem Description: An attempt to add a record to the BFCOSCHANGE table failed.
System Action: Log this message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2048 Space allocation during write operation failed, sclass=%d.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c, bfs_CopyBatchMigr.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An out of storage space condition was encountered while attempting a write operation.
System Action: Log this error message and return HPSS_ENOSPACE to caller.
Administrator Action: Add more storage space to the storage class or adjust the migration and purge policies associated with the storage class.

CORE2049 General bitfile diskmap operation failure.

Source Files Generating Error Message: bfs_BitfileSetAttrs.c, bfs_Clear.c, bfs_Close.c, bfs_CopyData.c, bfs_Migrate.c, bfs_Purge.c, bfs_ReadData.c, bfs_WriteDisk.c.
Problem Description: A failure occurred while attempting to process record(s) in the BFDISKMAP table.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the problem and contact HPSS support if needed.

CORE2050 Error in processing segment chkpt.

Source Files Generating Error Message: core_Log.c, bfs_COS.c, bfs_CheckpointSeg.c, bfs_Close.c, bfs_CopyBatchMigr.c, bfs_Migrate.c, bfs_Open.c, bfs_Unlink.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An error occurred while processing record(s) in the BFSSEGCHKPT table.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the problem and call HPSS support if needed.

CORE2051 Call to set storage segment attributes failed.

Source Files Generating Error Message: bfs_CheckpointSeg.c, bfs_WriteTape.c.
Problem Description: Either a call to set segment attributes, or a call to re-attach tape segments has failed. If the error is HPSS_ENOENT, something is seriously wrong, such as the metadata being inconsistent.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the failure and contact HPSS support if needed. If error is HPSS_ENOENT, definitely contact HPSS support.

CORE2052 Truncation of bitfile failed.

Source Files Generating Error Message: bfs_CheckpointSeg.c, bfs_Unlink.c.
Problem Description: The call to the Core Server routine that truncates bitfiles failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: This is possibly an HPSS software error. Contact HPSS support.

CORE2053 Call to bfs_OpenFile to open a file failed.

Source Files Generating Error Message: bfs_CheckpointSeg.c.
Problem Description: A call to bfs_Open in the Core Server failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: This is possibly an HPSS software error. Contact HPSS support.

CORE2054 Call to delete storage segments failed.

Source Files Generating Error Message: core_Log.c, bfs_CheckpointSeg.c, bfs_Clear.c, bfs_Migrate.c, bfs_Misc.c, bfs_WriteTape.c.
Problem Description: An attempt by the Core Server to delete storage segments has failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: This is possibly an HPSS software error. Contact HPSS support.

CORE2055 Delete bitfile descriptor failed.

Source Files Generating Error Message: bfs_CheckpointSeg.c, bfs_Close.c, bfs_Unlink.c.
Problem Description: An attempt to delete a record from the BITFILE table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine cause of the error and call HPSS support if needed.

CORE2056 Add bitfile segment to metadata error.

Source Files Generating Error Message: bfs_Clear.c, bfs_Migrate.c, bfs_Purge.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An attempt to add a record to the BFTAPESEG, BFDISKSEG, or BFSSUNLINK table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the error and call HPSS support if needed.

CORE2057 Delete bitfile segment from metadata error.

Source Files Generating Error Message: bfs_Clear.c, bfs_Purge.c, bfs_SetDataLen.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: Attempt to delete a record from the BFTAPESEG or BFDISKSEG table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the error and call HPSS support if needed.

CORE2058 Update bitfile segment metadata error.

Source Files Generating Error Message: bfs_Clear.c, bfs_Close.c, bfs_CopyData.c, bfs_ReadData.c, bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An attempt to update a record in the BFTAPESEG or BFDISKSEG table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the error and call HPSS support if needed.

CORE2059 Error in updating IO statistics during close.

Source Files Generating Error Message: bfs_Close.c, bfs_ReadData.c.
Problem Description: An error occurred trying to read or write the io statistics during a Core Server close operation.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the error and call HPSS support if needed.

CORE2060 Error in updating purge record.

Source Files Generating Error Message: bfs_Close.c.
Problem Description: An attempt to update a record in the BFPURGEREC table has failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code to determine the cause of the error and call HPSS support if needed.

CORE2061 Bad request type for copy: %d.

Source Files Generating Error Message: bfs_CopyData.c.
Problem Description: An invalid request type was received by the bfs_CopyData routine in the Core Server.
System Action: Log this error message and terminate the associated operation.
Administrator Action: This indicates an HPSS software problem. Contact HPSS support.

CORE2062 Sink side passive in tape to tape copy.

Source Files Generating Error Message: bfs_CopyData.c.

Problem Description: This is a software error in HPSS. The 'source' side should have been 'passive'.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support.

CORE2063 **Passive side of copy received error.**

Source Files Generating Error Message: core_Log.c, bfs_CopyBatchMigr.c, bfs_CopyData.c.
Problem Description: The passive side of a copy file operation operation in the Core Server received an error.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code to determine the cause of the failure and contact HPSS support if needed.

CORE2064 **Active side of copy operation failed.**

Source Files Generating Error Message: core_Log.c, bfs_CopyBatchMigr.c, bfs_CopyData.c.
Problem Description: The active side of a Core Server copy file operation received an error.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code to determine the cause of the failure and contact HPSS support if needed.

CORE2065 **Gap found in copy request.**

Source Files Generating Error Message: bfs_CopyCommon.c, bfs_CopyData.c.
Problem Description: The descriptors provided to the bfs_Copydata function are in error and do not map the file correctly.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support.

CORE2066 **Non-null source/sink list in mover reply.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: An incorrect reply has been received from the mover on a Core Server copy operation. The source/sink list should be NULL. The reply should come back in the request specific area of the IOR.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support.

CORE2067 **Null request specific reply in mover reply.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The IOR reply from the mover does not have the request information in the request specific area.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2068 **Invalid request specific reply type: %d.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The IOR reply from the mover contains an invalid type. The only acceptable type is REPLY_LISTENLIST.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2069 **Null address list in mover reply.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The network address list in the mover reply is NULL.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2070 **Invalid stripe address list length: %d.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The count of srcsink descriptors in the address list received on a mover reply in a copy operation is invalid.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2071 **Invalid address type: %d.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The address type returned in the srcsink descriptor in a reply from the mover on a copy operation is invalid.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2072 **Wait on read sockets (select) failed.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The socket *select* operation used to collect replies from movers during a copy operation has failed.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2073 **Accept of connection (accept) failed.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: A socket *accept* call used to accept connections from movers during a copy operation has failed.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2074 **Could not find offset in mover replies, offset = %d.%d.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The next expected offset in the set of mover replies during a copy operation was not found.
System Action: Log this error message and terminate the operation.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2075 **Socket address assignment (bind) failed, %s.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: A 'bind' call used to assign addressing information to a socket during a copy operation has failed.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2076 **Listen for connections (listen) failed, %s.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The 'listen' call used to start listening for mover connections during a copy operation has failed.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2077 **Determination of socket address (getsockname) failed.**

Source Files Generating Error Message: core_Log.c, bfs_CopyCommon.c.
Problem Description: The call to 'getsockname' which is used to get peer addressing information during a copy operation has failed.
System Action: Log this error message and terminate the copy operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2078 **Truncate on open failed.**

Source Files Generating Error Message: bfs_CopyFile.c, bfs_Open.c.
Problem Description: A Core Server attempt to truncate a file has failed.
System Action: Log this error message and terminate the operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2079 **Data copy operation failed during %s.**

Source Files Generating Error Message: bfs_CopyFile.c, bfs_Migrate.c, bfs_Stage.c.
Problem Description: The data copy operation of the indicated operation has failed.
System Action: Log this error message and terminate the associated operation.

Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2080 Required access ticket not provided.

Source Files Generating Error Message: bfs_Create.c.
Problem Description: A required request access token from the Name Service component of the Core Server was not provided.
System Action: Log this error message and terminate the associated operation.
Administrator Action: This is an HPSS software error. Contact HPSS support.

CORE2081 Call to build a new bitfile descriptor failed.

Source Files Generating Error Message: bfs_Create.c.
Problem Description: A failure occurred while attempting to create a new bitfile descriptor.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2082 Create new bitfile metadata record failed.

Source Files Generating Error Message: bfs_Create.c.
Problem Description: An attempt to add a record to the BITFILE table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2083 Read bitfile segments by bitfile error.

Source Files Generating Error Message: bfs_SegmentsCache.c.
Problem Description: An attempt to read in the bitfile segments from the BFDISKSEG or BFTAPESEG tables has failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2084 Error in caching in bitfile disk maps.

Source Files Generating Error Message: core_Log.c, bfs_DiskMap.c.
Problem Description: An attempt to read in the bitfile disk maps from the BFDISKMAP table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2085 Failure in creating a bitfile disk map.

Source Files Generating Error Message: bfs_DiskMap.c.

Problem Description: An attempt to add a record to the BFDISKALLOCREC table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2086 Failure in updating a bitfile disk map.

Source Files Generating Error Message: bfs_DiskMap.c.
Problem Description: An attempt to update a record in the BFDISKMAP table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2087 Failure in deleting a bitfile disk map.

Source Files Generating Error Message: bfs_DiskMap.c.
Problem Description: An attempt to delete a record from the BFDISKMAP table failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2088 Failure in setting up connection to GateKeeper.

Source Files Generating Error Message: bfs_GK.c.
Problem Description: The call to connect to the GateKeeper has failed.
System Action: This error message is logged and the Core Server terminates.
Administrator Action: Restart the Core Server. Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2089 GateKeeper call %s failed.

Source Files Generating Error Message: bfs_GK.c.
Problem Description: A call to a Gatekeeper function has failed.
System Action: Log this error message indicating the failure.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2090 Attempt to unlock without holding lock.

Source Files Generating Error Message: bfs_LockRtns.c.
Problem Description: An attempt to unlock a Core Server lock was attempted by a thread that did not hold the lock.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2091 **Bad unlock, invalid thread state.**

Source Files Generating Error Message: bfs_LockRtns.c.
Problem Description: A request to drop a an exclusive lock on a bitfile by a thread that did not hold the lock has been detected.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2092 **Name Service getname call failed.**

Source Files Generating Error Message: bfs_COS.c, bfs_LogPath.c, bfs_Misc.c.
Problem Description: A request to the Name Service component of the Core Server to generate a path name from a bitfile Id has failed.
System Action: Log this error message.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2093 **Name Service get fileset attributes call failed.**

Source Files Generating Error Message: bfs_COS.c.
Problem Description: A request to the Name Service component of the Core Server to generate a fileset name from a fileset Id has failed.
System Action: Log this error message.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2094 **Path=%s, Fileset=%s.**

Source Files Generating Error Message: bfs_LogPath.c.
Problem Description: There is no problem. This message is used to put path and file information into the log.
System Action: Log this message.
Administrator Action: None.

CORE2095 **Invalid storage segment list specified.**

Source Files Generating Error Message: bfs_Migrate.c, bfs_Purge.c.
Problem Description: The storage segment list passed to the core_MigrateFile or core_PurgeFile routine is invalid.
System Action: Log this error message and terminate the operation.
Administrator Action: This is an HPSS software problem. Contact HPSS support.

CORE2096 **Invalid storage level specified.**

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: The storage level passed to the core_MigrateFile routine is invalid.
System Action: Log this error message and terminate the migrate.
Administrator Action: This is an HPSS software problem. Contact HPSS support.

CORE2097 Severe config error, Hierarchy %d has invalid migration list info.

Source Files Generating Error Message: bfs_COS.c, bfs_Migrate.c, bfs_Misc.c.
Problem Description: The migration list in the associated hierarchy is invalid.
System Action: Log this error message and terminate the migrate.
Administrator Action: This is a configuration error. It should not happen if standard HPSS mechanisms(SSM) are being used to configure the system. Check the migration list in the indicated hierarchy and make corrections as appropriate.

CORE2098 Requested storage segment on copy/move not found.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: A storage segment does not exist that is the target of a migrate operation. This is merely a warning message and indicates that a prior operation may have already migrated the storage segment and it has been purged. This can occur because the MPS server builds it's migration list without taking locks.
System Action: Log the warning and migrate the remainder of the indicated data.
Administrator Action: This should occur rarely. If the message appears frequently, contact HPSS support.

CORE2099 Call to build bitfile cache failed.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: During a Core Server open operation, loading the bitfile cache failed. This would normally be associated with a metadata operation failure.
System Action: Log this error message and terminate the open operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2100 Operation invalid for COS %d, OFlags=%d, ReadOps=%d, WriteOps=%d.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: An file operation was attempted that is not allowed by the COS.
System Action: Log this error message and terminate the operation.
Administrator Action: This is a warning message. Ensure that the file open flags are set properly.

CORE2101 Call to build bitfile open context failed.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: During a Core Server open operation, building the internal open context failed.
System Action: Log this error message and terminate the open operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2102 Processing of open options failed.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: During open processing, one of the open options (e.g. truncate, etc.) failed.
System Action: Log this error message and terminate the open operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2103 Allocation of bitfile open context failed.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: During open processing, the call to allocate a bitfile open context from the open list has failed.
System Action: Log this error message and terminate the open operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2104 Call to locate bitfile cache entry failed.

Source Files Generating Error Message: bfs_BitfileGetAttrs.c, bfs_BitfileSetAttrs.c, bfs_Open.c, bfs_Unlink.c.
Problem Description: A failure occurred while attempting to locate an entry in the bitfile cache during an open operation.
System Action: Log this error message and terminate the open operation.
Administrator Action: None.

CORE2105 Call to initialize bitfile cache failed.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: An attempt to load information into the bitfile cache from metadata failed during open file processing.
System Action: Log this error message and terminate the open operation.
Administrator Action: Examine the specific error code for the cause of the failure and contact HPSS support if needed.

CORE2106 Closing file, not truncating final seg

Source Files Generating Error Message: bfs_Close.c.
Problem Description: This is an informational message issued while a file is being closed. The Core Server determined that the final segment of the file should not be truncated.
System Action: None.
Administrator Action: None.

CORE2107 Must open file for write if truncating.

Source Files Generating Error Message: bfs_Open.c.
Problem Description: During open processing, a request to truncate a file did not also indicate that the file was to be opened for writing. To perform a truncate, the open options must also include write.

System Action: Log this error message and return error HPSS_ECONFLICT to the client.
Administrator Action: None.

CORE2108 Invalid purge request, %s.

Source Files Generating Error Message: bfs_Purge.c.
Problem Description: One or more parameters on a Core Server purge request are invalid.
System Action: Log this error message and return HPSS_EINVAL to client.
Administrator Action: None.

CORE2109 Unable to purge file, BFS_NO_PURGE flag is set.

Source Files Generating Error Message: bfs_Purge.c.
Problem Description: A Core Server purge operation was requested against a file that has been purge locked.
System Action: Reject the purge request with HPSS_ENOPURGEFGLAG.
Administrator Action: None.

CORE2110 Request rejected, file reached max fragmentation allowed, file %s fileset %s UID %u GID %u User %s Host %s HostAddr %s.

Source Files Generating Error Message: bfs_Write.c.
Problem Description: An attempt to write to a file resulted in the file being stored on more than BFS_MAX_BITFILE_SEGMENTS storage segments.
System Action: The write request is terminated.
Administrator Action: This can happen when the size of a file is greater than 10000 * storage segment size. This can be the result of a poor COS configuration or it can be the result of a client not providing file size hints when the file is stored. Consider changing the COS configuration to handle this more appropriately and also consider the possibility of forcing the file stores to go to tape when no COS hints are provided.

CORE2111 Error collecting ss stats.

Source Files Generating Error Message: core_Log.c, bfs_SClass.c.
Problem Description: An error occurred while calling the storage statistics routine provided by the Storage Service component of the Core Server.
System Action: Log this error message and retry later.
Administrator Action: If error is persistent, examine error code to determine the cause of the failure and contact HPSS support if needed.

CORE2112 Caching of migration policy tables failed.

Source Files Generating Error Message: bfs_SClass.c.
Problem Description: At Core Server startup time, building the internal cache of migration policies failed.
System Action: Log this error message and terminate the Core Server.

Administrator Action: Examine the specific error code to determine the cause of the failure and contact HPSS support if needed. Restart the Core Server.

CORE2113 Caching of purge policy tables failed.

Source Files Generating Error Message: bfs_SClass.c.
Problem Description: At Core Server startup time, building the internal cache of purge policies failed.
System Action: Log this error message and terminate the Core Server.
Administrator Action: Examine the specific error code to determine the cause of the failure and contact HPSS support if needed. Restart the Core Server.

CORE2114 Stage failed, all retries exhausted.

Source Files Generating Error Message: bfs_Stage.c.
Problem Description: An error occurred staging a file. The core server has either reattempted and failed the stage from all valid alternate copies or has determined that there are no valid alternate copies.
System Action: The stage attempt is abandoned.
Administrator Action: This error indicates that a primary tape copy may be damaged and may need recovery processing.

CORE2115 SS and BFS metadata are inconsistent.

Source Files Generating Error Message: bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: A severe error has been detected that indicates that the Bitfile Service and Storage Service metadata are not in a consistent state for a bitfile.
System Action: Log this error message and terminate the write operation.
Administrator Action: It is highly likely that this is an HPSS software problem. Contact HPSS support.

CORE2116 Bitfile Server IOR source, bad pointer.

Source Files Generating Error Message: bfs_WriteDisk.c.
Problem Description: An error was detected while processing the IOR returned from the Storage Service component of the Core Server during write processing.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2117 Storage Server IOD sink, bad pointer.

Source Files Generating Error Message: bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An error was detected while processing the IOD that is to be returned to the caller of the Bitfile Service write operation.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2118 **Bitfile Server IOR sink, bad pointer.**

Source Files Generating Error Message: bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An error was detected while processing the IOR that was returned from the Storage Service component of the Core Server during write processing.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2119 **No new segments to build.**

Source Files Generating Error Message: bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: A low level Bitfile Service routine was called to write segments, however, it was discovered that there are no new segments to build. The write operation was an unneeded call. It was asked to write nothing.
System Action: Log a debug message.
Administrator Action: None.

CORE2120 **Build overlapped segment error.**

Source Files Generating Error Message: bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: The process of building new segments failed during a write operation. This particular error occurred in an area of code where overlapping segments were being combined into a single new segment.
System Action: Log this error message and terminate the write operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2121 **No IOD was built for Storage Server.**

Source Files Generating Error Message: bfs_WriteTape.c.
Problem Description: An error returned by bfs_WriteTapeBldSSIOD in function bfs_WriteTape. The Bitfile Service was attempting to build the IOD to be passed to the Storage Service.
System Action: Log this error message and terminate the write operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2122 **Bitfile Server IOR source, bad pointer.**

Source Files Generating Error Message: bfs_WriteDisk.c, bfs_WriteTape.c.
Problem Description: An error was detected while processing the IOR returned from the Storage Service component of the Core Server during write processing.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2123 **Metadata is out of synch with BFS.**

Source Files Generating Error Message: bfs_WriteTape.c.
Problem Description: It was detected that metadata is inconsistent between the Bitfile Service and Storage Service components of the Core Server during a tape write operation.
System Action: Log this error message and terminate the Core Server.
Administrator Action: This is most likely an HPSS software problem. Contact HPSS support. Restart the Core Server.

CORE2124 System crashed to prevent orphaning a storage segment.

Source Files Generating Error Message: bfs_WriteTape.c.
Problem Description: During a tape write operation, a metadata error occurred while updating a Core Server checkpoint record to indicate that the specified storage segment is not to be deleted. Failure to make this update can result in orphaning the storage segment so, to prevent this, the server is terminated.
System Action: Log this error message and terminate the Core Server.
Administrator Action: Restart the Core Server. Also examine the specific error code to determine the cause of the prior failure. Contact HPSS support if needed.

CORE2125 Check current write segment failed.

Source Files Generating Error Message: bfs_WriteTape.c.
Problem Description: A call to the Storage Service component to determine if the current tape storage segment for a tape write operation is still writable has failed.
System Action: Log this error message and terminate the write operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2126 Find Append Segment for write failed.

Source Files Generating Error Message: bfs_WriteTape.c.
Problem Description: During a tape operation, a failure occurred while examining existing tape storage segments to see if one of them could be selected and more data written at the end.
System Action: Log this error message and terminate the write operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2127 Call to storage service start tape seg copy function failed.

Source Files Generating Error Message: bfs_WriteTape.c.
Problem Description: The call to the start mount function of the Storage Service component of the Core Server has failed.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2128 Error reading cos change record.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: An error occurred trying to read a record from the BFCOSCHANGE table.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2129 Invalid HPSS COS specified, id = %d.

Source Files Generating Error Message: bfs_COS.c, bfs_Open.c.
Problem Description: A user attempted to create a bitfile in a non-existent COS, or a storage class could not be found.
System Action: Log this error message and terminate the associated operation.
Administrator Action: None.

CORE2130 BFS create bitfile call failed.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: A call to bfs_Create has failed in function bfs_ChangeCOSThread.
System Action: Log this error message and terminate the create operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2131 COS change delayed due to space limitations.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: Changing the COS of a file was delayed due to a space warning threshold condition in the storage class associated with the COS targeted for the change.
System Action: Delay COS change and retry later.
Administrator Action: Add space to target storage classes if desired.

CORE2132 Diskmap max size is not a power of two multiple of the min size.

Source Files Generating Error Message: bfs_DiskMap.c.
Problem Description: The rule is that the diskmap maximum size must always be a power of two multiple of the minimum size. However, it appears that the Core Server has encountered a case where this rule is not being followed. This is a warning message to inform the administrator that this condition exists and that it should be corrected.
System Action: The Core Server continues.
Administrator Action: Collect the relevant log information and fix the problem. Call HPSS support it needed.

CORE2133 Name Service setattrs call failed.

Source Files Generating Error Message: bfs_COS.c.

Problem Description: The call to the Name Service routine used to set the bitfile Id in a name service object failed during a COS change operation.
System Action: Log this error message and terminate the COS change operation. The COS change will be retried.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2134 BFS unlink call failed.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: An error occurred when the Core Server attempted to unlink a bitfile.
System Action: Log this error message and terminate the unlink operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2135 Error in processing acct summary file.

Source Files Generating Error Message: bfs_Acct.c.
Problem Description: An error occurred while processing one or more records in the ACCTSUM table.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2136 Error in processing acct log file.

Source Files Generating Error Message: bfs_Acct.c.
Problem Description: An error occurred while processing one or more records in the ACCTLOG table.
System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2137 Open files on connection shutdown, UID %u GID %u User %s Host %s HostAddr %s.

Source Files Generating Error Message: core_ConnectBFS.c.
Problem Description: Just a warning. Indicates that a client operation is terminating without closing all open files.
System Action: Log warning message.
Administrator Action: In most cases, none. If this is seen often, it could indicate a poorly written local client that is not properly closing files.

CORE2138 Failure in updating COS change record.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: An error occurred while updating a record in the BFCOSCHANGE table.

System Action: Log this error message and terminate the associated operation.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2139 dropped COS change request after %d retries.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: Repeated attempts to change the COS of a bitfile have failed and the COS change request for this file is being dropped. The number of retries is configurable and this message indicates that the indicated retry limit has been reached.
System Action: This is an informative warning message.
Administrator Action: Examine the specific error code to determine why the COS change for the bitfile is failing and initiate another COS change request for the bitfile after the problem has been resolved.

CORE2140 SIGUSR1 signal, turning on empty COS change file.

Source Files Generating Error Message: core_Main.c.
Problem Description: This is an event message. It indicates that the admin has sent the Core Server a SIGUSR1 signal. This signal toggles the empty COS flag in the Core Server. In this case, the flag has been turned on and all COS change records will be deleted from the COS change file. The default behavior at core startup time is to not delete COS change records.
System Action: Log this error message.
Administrator Action: None.

CORE2141 SIGUSR1 signal, turning off empty COS change file.

Source Files Generating Error Message: bfs_BitfileSetAttributes.c.
Problem Description: This is an event message. It indicates that the admin has sent the Core Server a SIGUSR1 signal. This toggles the empty COS flag in the Core Server. In this case, the flag has been turned off and COS changes are performed.
System Action: Log this error message.
Administrator Action: None. Informatory message.

CORE2142 Read retry cancelled; data has been modified; retry level %d no longer valid.

Source Files Generating Error Message: bfs_ReadData.c.
Problem Description: The Core Server attempted to read a file, but the data was inaccessible, so it identified an alternate level of the hierarchy from which to retry the read. But before it could begin the retry, it discovered that the file had been modified at the top of the hierarchy, so the alternate level was no longer valid. (It would be hard for this to happen. If the media at the top of the hierarchy is inaccessible for the read, how could anybody write to it? But just in case.)
System Action: Give up on the read.
Administrator Action: Determine the inaccessible volume from DEBUG level messages in the log file and take action to repair it or recover the data from it.

CORE2143 Retrying read from level %d for file %s in fileset %s.

Source Files Generating Error Message: bfs_Read.c
Problem Description: A read has failed and the core server is retrying the read from an alternate level of the hierarchy.
System Action: The Core Server will retry the read from the specified alternate level.
Administrator Action: Determine the inaccessible volume from DEBUG level messages in the log file and take action to repair it or recover the data from it.

CORE2144 Invalid session provided by caller.

Source Files Generating Error Message: bfs_Migrate.c, bfs_WriteTape.c.
Problem Description: A call to bfs_BatchFindSession has failed. The reason for this failure is because the caller has supplied an invalid session pointer.
System Action: This message is logged, the operation is terminated, and an error is returned to the client.
Administrator Action: None.

CORE2145 Error in sending response via callback, IP addr = %s, port =%d.

Source Files Generating Error Message: bfs_Asynch.c.
Problem Description: The Core Server is attempting to make a socket connection to the callback address, but has received an error while trying to do so. This log message contains the address and port number we are attempting to connect to.
System Action: The Core Server returns an error and continues.
Administrator Action: If the problem persists, check for any network problems. Otherwise no action is necessary.

CORE2146 Error %d truncating final segment of file to size %d.

Source Files Generating Error Message: bfs_Close.c.
Problem Description: The Core Server is in the process of closing a file. In order to save disk space, it is attempting to truncate the final segment of the file to the smallest valid segment size which will still hold the actual data written in the segment. This truncation effort has failed.
System Action: It depends on just how the effort failed. If the Core Server was unable to truncate the segment at all, it just keeps the former size and keeps going. If the segment was truncated but then the attempt to write the new segment size to the disk map metadata in the BfDiskAllocRec table failed, then the enclosing transaction is aborted, which results in the segment keeping its old size after all, and as a side effect, means some IO statistics which were being updated in the same transaction do not get updated after all. However, the Core Server keeps going and finishes closing the file.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2147 Closing file, truncating final seg to 0x%x%x.

Source Files Generating Error Message: bfs_Close.c.

Problem Description: This is an informational message issued while a file is being closed. The Core Server will attempt to truncate the final segment of the file before the close to the indicated size.
System Action: None.
Administrator Action: None.

CORE2148 Error %d extending final segment of file to size %d.

Source Files Generating Error Message: bfs_DiskMap.c.
Problem Description: An application has attempted to write to or beyond the last segment of a file, or to extend the size of a file, and the last segment of the file had previously been truncated to save disk space. The Core Server is attempting to expand the segment to its normal size before proceeding with the write or file extension. The expansion attempt failed.
System Action: The Core Server will abort the transaction and the write or file extension will fail. The Core Server cannot allow the write or size extension unless the segment can first be expanded.
Administrator Action: Examine the specific error code for the cause of the failure and call HPSS support if needed.

CORE2149 Disk volume %s was not mounted for tape aggregation.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: Batch migration noticed that a file it needed to read was located on a source disk that was not mounted. This should be rare. It may occur during system startup if MPS starts a batch migration, but not all of the disks are mounted.
System Action: The file is temporarily skipped. If it is skipped several times it will be migrated separately, outside of a batch.
Administrator Action: If this occurs consistently after the Core Server has been running for a while determine the status of the disk volume. Call HPSS support if needed.

CORE2150 Too many EOMs for a single tape aggregation batch.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: While writing a tape aggregate, EOM was received several times, for several different cartridges. Since aggregates are not allowed to span tapes, this may occur if several tapes are nearly full and the aggregate is bigger than the free space available on any single tape. This should be fairly rare.
System Action: The aggregate is not written. The files are temporarily skipped and will be migrated later.
Administrator Action: If this occurs more than once, ensure that tape aggregation is not creating very large aggregates by inspecting the Disk Migration policy. If it is, lower the total aggregate size and force MPS to reread the policy. If this error continues to occur, contact HPSS support.

CORE2151 Failed to release batch session.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: After a batch migration operation completed, a batch session could not be released. This should not occur.
System Action: The session is abandoned and the Core Server continues normally.
Administrator Action: If there are other Core Server errors displayed at approximately the same time, investigate those further. If this error continues to occur, contact HPSS support with the error code.

CORE2152 Batch migration IO queue inactivity timeout reached for storage class %d.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: A batch migration session has already migrated some files to a tape drive it has reserved. It expected to receive more files to migrate in a timely manner but did not. This usually indicates that batch migration candidates are not being sent quickly enough from MPS to the Core Server to keep a tape drive reasonably busy. It may also indicate that there is a resource contention issue in the Core Server.
System Action: The allocated tape drive is freed up so that other activities may use it. The Core Server will continue to wait for more files to migrate. If it receives more files, it will request another tape drive and continue. Note that releasing and re-acquiring the drive will impact batch migration performance.
Administrator Action: Ensure there are no communication issues between MPS and the Core Server and that the Core Server is not having resource contention issues (e.g. examine Alarms and Events and the logs). Contact HPSS support if neither of these can be determined and this error continues to occur.

CORE2153 Min segment size is greater than max segment size for storage class %d.

Source Files Generating Error Message: core_Init.c
Problem Description: The indicated storage class configuration defines a minimum segment size which is greater than the maximum segment size. This is an invalid configuration which should not have been allowed if the storage class configuration were created and maintained using SSM.
System Action: None.
Administrator Action: Correct the configuration of the indicated storage class.

CORE2154 Max segment size is not a power of two multiple of min segment size for storage class %d; actual max size will be less than what is configured.

Source Files Generating Error Message: core_Init.c
Problem Description: The maximum segment size in the indicated storage class configuration is not a power of two multiple of the minimum segment size. This configuration was valid under releases of HPSS prior to 7.1 but is invalid under 7.1.
System Action: The Core Server will not honor the actual maximum segment size configured for the storage class. Instead, the maximum segment size used will be the greatest power of two multiple of the minimum segment size which is less than the configured maximum segment size.
Administrator Action: Correct the configuration of the indicated storage class.

CORE2155 Unknown storage segment type in unlink table.

Source Files Generating Error Message: bfs_Misc.c.
Problem Description: A segment type other than "tape" was found in the tape storage segment unlink table.
System Action: Log the error message and keep going.
Administrator Action: Contact HPSS Support.

CORE2156 List of batch migration candidates is invalid.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: The batch migration code was passed an empty list of files to be migrated.
System Action: Abandon the migration attempt.
Administrator Action: Contact HPSS Support. This is likely a programming error.

CORE2157 Batch session invalid. It is not a migration session.

Source Files Generating Error Message: bfs_Migrate.c.
Problem Description: The session passed to the batch migration function is not marked to be used for batch migraton.
System Action: Abandon the migration attempt.
Administrator Action: Contact HPSS Support. This is likely a programming error.

CORE2158 Stage retry not attempted: COS not configured for auto stage retry.

Source Files Generating Error Message: bfs_Stage.c.
Problem Description: A stage has failed but the Core Server will not attempt to retry the stage from another level because the Class of Service is not configured to auto stage retry.
System Action: None.
Administrator Action: None, unless auto stage retry is desired, in which case modify the configuration of the indicated class of service.

CORE2159 Retrying stage from level %d.

Source Files Generating Error Message: bfs_Stage.c.
Problem Description: A stage has failed and the Core Server will attempt to retry the stage from the specified level of the hierarchy.
System Action: The Core Server will retry the stage..
Administrator Action: Determine the inaccessible volume from DEBUG level messages in the log file and take action to repair it or recover the data from it.

CORE2160 Read failed, all retries exhausted.

Source Files Generating Error Message: bfs_Read.c
Problem Description: A read has failed and the Core Server has attempted to retry the read from an alternate level of the hierarchy. Either no eligible alternate levels were identified, or if any were identified, the read attempts from them also failed.
System Action: The Core Server will give up on the read.

Administrator Action: Determine the inaccessible volume from DEBUG level messages in the log file and take action to repair it or recover the data from it.

CORE2161 Read retry not attempted: COS not configured for auto read retry.

Source Files Generating Error Message: bfs_ReadData.c
Problem Description: A read has failed but the Core Server will not attempt to retry the read from another level because the Class of Service is not configured to auto read retry.
System Action: The Core Server will give up on the read.
Administrator Action: None, unless auto read retry is desired, in which case modify the configuration of the indicated class of service.

CORE2162 Level %d is not a valid retry candidate because its migration policy is not configured for Migrate Files (TAPE_COPIES).

Source Files Generating Error Message: bfs_Misc.c
Problem Description: A read has failed and the Core Server is attempting to identify an eligible alternate level of the hierarchy from which to retry the read. The specified level is not eligible because the migration policy of the storage class there does "Migrate Volumes" instead of "Migrate Files".
System Action: The Core Server will not use the specified level for a retry.
Administrator Action: None, unless the migration policy of the storage class at the specified level was configured this way unintentionally, in which case modify the policy.

CORE2163 Cannot clear all disk segments.

Source Files Generating Error Message: bfs_Clear.c.
Problem Description: The core server was requested to clear all of the disk segments of a file and was unable to do so.
System Action: Abandon the clear attempt.
Administrator Action: Contact HPSS Support. This is likely a programming error.

CORE2164 There is no connection Data in the connection context.

Source Files Generating Error Message: bfs_Batch.c, bfs_BfOpenContext.c, bfs_BitfileSetAttrs.c, bfs_Clear.c, bfs_Close.c, bfs_Create.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_Read.c, bfs_Stage.c, bfs_Write.c.
Problem Description: The core server information is missing from the connection context. This is probably just because the client dropped the connection prematurely.
System Action: Abandon the operation.
Administrator Action: None.

CORE2165 There is no connection BFS_data in the connection context.

Source Files Generating Error Message: bfs_Batch.c, bfs_BfOpenContext.c, bfs_BitfileSetAttrs.c, bfs_Clear.c, bfs_Close.c, bfs_Create.c, bfs_Misc.c, bfs_Open.c, bfs_Purge.c, bfs_Read.c, bfs_Stage.c, bfs_Write.c.

Problem Description: The BFS-specific portion of the core server information is missing from the connection context. This is probably just because the client dropped the connection prematurely.
System Action: Abandon the operation.
Administrator Action: None.

CORE2166 The connection is in the process of being closed.

Source Files Generating Error Message: bfs_Batch.c, bfs_Open.c.
Problem Description: The client is trying to close the connection, but the core server had already begun to start a new batch session or to open a file.
System Action: The core server will cancel the process of starting the new batch session or opening the file.
Administrator Action: None.

CORE2167 BFS Connection was not cleaned up properly.

Source Files Generating Error Message: core_ConnectBFS.c.
Problem Description: The client dropped the connection and the core server was supposed to close all the open sessions and files, but it was unable to do so.
System Action: None; just issue this alarm and clean up the remainder of the resources used by the connection.
Administrator Action: None.

CORE2168 Stage failed; caller specified FromStorageLevel; not retrying.

Source Files Generating Error Message: bfs_Stage.c.
Problem Description: A stage failed, but the core server will not retry from an alternate level because the calling function specified the level from which to stage. Only specialized tools like recover may specify the from-stage level, and the core server leaves it to these tools to decide whether to retry the stage from another level.
System Action: Abandon the stage attempt.
Administrator Action: None.

CORE2169 COS change failed: dest total bytes %s in COS %d does not match src total bytes %s in COS %d for file %s, fileset %s.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: A Change Class of Service attempt failed. The failure was detected by determining that the old and new files do not have the same number of bytes.
System Action: Abandon the COS change attempt.
Administrator Action: Examine the HPSS log file for related entries which could explain the failure.

CORE2170 CopyFile failed: dest total bytes %s does not match src total bytes %s for file %s, fileset %s.

Source Files Generating Error Message: bfs_CopyFile.c.

Problem Description: An internal hpss copy failed. The failure was detected by determining that the old and new files do not have the same number of bytes.
System Action: Abandon the copy attempt.
Administrator Action: Examine the HPSS log file for related entries which could explain the failure.

CORE2171 Changing COS, file %s, fileset %s, src COS=%d, dest COS=%d, stream_id %d.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: The core server is beginning a Change Class of Service operation for the specified file. The COS change request was submitted via the standard hpss_FileSetCOS api, which adds the request to the the bfcoschange metadata table and allows the core server optionally to process the requests in parallel streams.
System Action: None; informational message.
Administrator Action: None.

CORE2172 Changing COS, file %s, fileset %s, src COS=%d, dest COS=%d, client call.

Source Files Generating Error Message: bfs_COS.c.
Problem Description: The core server is beginning a Change Class of Service operation for the specified file. The COS Change request was submitted via the core_BitfileChangeCOS api, which processes one change COS request at a time and does not use the bfcoschange metadata table.
System Action: None; informational message.
Administrator Action: None.

CORE2173 Cannot determine region, path %s fileset %s available info: %s

Source Files Generating Error Message: bfs_WriteDisk.c.
Problem Description: The Core Server cannot determine the region in which a requested write should begin.
System Action: Log this error message and abandon the write attempt..
Administrator Action: Contact HPSS support.

CORE2174 Too many regions, more than %d, path %s fileset %s available info: %s

Source Files Generating Error Message: bfs_WriteDisk.c.
Problem Description: The write would create too many regions in the file.
System Action: Log this error message and abandon the write attempt..
Administrator Action: Try to store the file in a COS where the top storage class has a larger segment size or in a COS which uses VLSS allocation so that fewer regions are needed.

CORE2175 hpss_net_getnameinfo failed: %s

Source Files Generating Error Message: bfs_Asynch.c
Problem Description: hpss_net_getnameinfo has failed.
System Action: None.

Administrator Action: Contact HPSS support.

CORE3001 TRACE: %s.

Source Files Generating Error Message: ss_session.c.
Problem Description: Not a problem, the text of a general interest trace message is included in the message.
System Action: None.
Administrator Action: None.

CORE3007 x% of disk free space has been mapped.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: No problem, information only.
System Action: No problem, information only.
Administrator Action: None needed.

CORE3008 Disk storage map generated for: %s, extents: %d, free space: %d, time: %f, rate: %f

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: No problem, information only.
System Action: No problem, information only.
Administrator Action: None needed. This message provides statistics about the generation of a free space map for the named disk virtual volume. It provides the name of the volume, the number of disk extents that were processed, the amount of free space that was mapped (in bytes), the time consumed to map the volume (in seconds) and the rate the volume was mapped, in extents per second.

CORE3009 All disk free space maps have been generated.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: This is an announcement that the Storage Server's disk free space maps have all been generated.
System Action: The Core Server continues.
Administrator Action: No action is necessary.

CORE3011 FATAL: Error initializing: %s.

Source Files Generating Error Message: core_Init.c, core_InitSS.c, ss_pvl_wrappers.c.
Problem Description: An initialization procedure for some component has failed. The component name is given in the log message.
System Action: Server halts.
Administrator Action: Check the log for errors logged by the failing initialization procedure. Investigate and correct the problem in the named component. If the problem persists, contact HPSS software support.

CORE3012 FATAL: Inconsistent PV mount list.

Source Files Generating Error Message: ss_dpv.c.
Problem Description: A list of mounted PVs is inconsistent. It does not match a list previously processed.
System Action: Server halts.
Administrator Action: Look for and save any core file and restart the Core Server. Contact HPSS software support.

CORE3015 FATAL: Checksum error in disk free space map.

Source Files Generating Error Message: ss_diskspace.c
Problem Description: Each disk free space is kept in the Core Server's memory. Each element of the map is checksummed against accidental corruption. The server has found an element whose checksum does not compare correctly with the element's data.
System Action: Server halts.
Administrator Action: This may be an indication of memory corruption or a logic error. Look for and save any core file and restart. Contact HPSS software support.

CORE3020 FATAL: Cannot remove transaction callback.

Source Files Generating Error Message: ss_tmap_cache.c.
Problem Description: An error was returned by MMLIB indicating that a transaction callback function that was expected to have been registered on a transaction, was missing.
System Action: Server halts
Administrator Action: Contact HPSS support. This error indicates a logic error in the server.

CORE3025 Error in metadata: %s.

Source Files Generating Error Message: ss_core_api.c, ss_dmap.c, ss_dss.c, ss_mapcommon.c, ss_tss.c, ss_volume_attrs.c.
Problem Description: An inconsistency has been detected in the Core Server's metadata.
System Action: HPSS_EFAULT is returned and the function fails.
Administrator Action: The variable part of this log message contains information pointing out the nature of the inconsistency. Isolate and correct the metadata failure off-line. If the problem persists, contact HPSS software support.

CORE3026 Caller not authorized for this function.

Source Files Generating Error Message: ss_util.c.
Problem Description: The client's access permission credentials do not match the server's Security ACL.
System Action: HPSS_EPERM is returned to the client.
Administrator Action: Inspect the log for information about the client. Check the client's principal identity and compare to the server's Security object ACL.

CORE3027 Error returned by %s.

Source Files Generating Error Message: May be returned from any part of the server.
Problem Description: This is a general purpose log message that documents an error reported from a lower level procedure. The failing procedure is named in the log message. The error code returned by the lower level procedure is logged in the message header in most cases.
System Action: An error is returned to the client.
Administrator Action: This is probably the most frequently issued log message from the Core Server. The HPSS log should contain an error message, prior to this message, from a lower level procedure that first detected an error. It should be possible to reconstruct a chain of error returns from the procedure in error through various Core Server procedures until the error is returned to the Core Server client. Error codes may change during this process and will be recorded in the log message headers. Action to be taken is determined by analysis of the original error.

CORE3028 Disk space maps built, but with errors.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: The Core Server is attempting to build its disk space maps, but has encountered an error. This is a message informing everyone that this has occurred. Some of the disks may not be available.
System Action: The Core Server continues.
Administrator Action: This problem must be eventually corrected. If necessary, contact your HPSS support representative.

CORE3029 Cannot map disk storage segment space, %s.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: The Core Server is attempting to build a disk map and has discovered one of a number of possible inconsistencies-- one of the Ending addresses is less than or equal to one of the starting addresses; the free space calculation underflowed; the segment starting location was less than one; the segment starting and ending locations were equal; the ending location was greater than the number of clusters; or, the segments overlapped.
System Action: The Core Server abandons the attempt to create this disk map, returns an error, and continues.
Administrator Action: This problem is most likely the result of bad metadata and will very likely require intervention. Contact your HPSS support representative.

CORE3030 Disk segment extents overlap detected on %s

Source Files Generating Error Message: ss_dss.c
Problem Description: The Core Server has detected overlapping assigned space when attempting to create a new disk storage segment.
System Action: The server discards the new segment to prevent any actual overlap of data and issues this alarm. This prevents the error from causing damage to files on disk.
Administrator Action: This problem is most likely the result of bad metadata and will very likely require intervention. Contact your HPSS support representative.

CORE3031 Did not return a segment's space to the free space map.

Source Files Generating Error Message: ss_dss_cache.c
Problem Description: This is not an error. The server is noting a somewhat unusual condition in the log in case it becomes important to some later debugging effort.
System Action: None.
Administrator Action: None.

CORE3032 Offset: %u, Length: %u

Source Files Generating Error Message: Various
Problem Description: This message follows an Alarm that indicates that overlapping disk extents were found in a disk's metadata. This message details the offsets and lengths of the extents involved.
System Action: The server discards the new segment to prevent any actual overlap of data and issues this alarm. This prevents the error from causing damage to files on disk.
Administrator Action: This problem is most likely the result of bad metadata and will very likely require intervention. Contact your HPSS support representative.

CORE3033 Invalid argument: %s.

Source Files Generating Error Message: ss_core_api.c, ss_dmap.c, ss_dpv.c, ss_dss.c, ss_dvv.c, ss_mapcommon.c, ss_pvcommon.c, ss_readdisk.c, ss_session.c, ss_sscommon.c, ss_tpv.c, ss_tss.c, ss_tvv.c, ss_volume_attrs.c, ss_vvcommon.c, ss_writedisk.c.
Problem Description: This is a general purpose debugging message that documents an invalid argument. The procedure that detected the error is recorded in the log message header. The name of the invalid argument and other information is given in the log message text.
System Action: An error, usually HPSS_EINVAL, is returned to the client.
Administrator Action: None - this is a server debugging message.

CORE3034 Duplicate entry error detected during create.

Source Files Generating Error Message: ss_dpv.c.
Problem Description: This is a general purpose debugging message used when a metadata manager procedure reports a duplicate entry error during a record creation step.
System Action: HPSS_EEXIST is returned to the client.
Administrator Action: This error suggests that the client may be repeating create functions or otherwise confused.

CORE3035 Invalid address type.

Source Files Generating Error Message: ss_io.c, ss_pvcommon.c, ss_sscommon.c, ss_tvv.c, ss_util.c, ss_vvcommon.c.
Problem Description: An invalid address type was detected during the initial parsing of an IOD.

System Action: HPSS_EINVAL is returned to the client.
Administrator Action: The client has attempted an I/O operation using an invalid IOD. Check for more log messages associated with this error if necessary.

CORE3037 RPC failed: %s.

Source Files Generating Error Message: ss_pvl_wrappers.c.
Problem Description: An error was returned in the rpc status field of an rpc to another server, usually a PVL.
System Action: In the case of a PVL, the PVL binding is discarded and a new connection is created to the PVL. The server waits indefinitely for the new PVL connection. In the case of SSM, the SSM binding is discarded and messages to SSM are lost until the connection is re-established.
Administrator Action: If the problem repeats, check the status of the PVL. This log message can be expected when the PVL is taken down and brought back up, but should not persist. If the problem persists, contact HPSS software support.

CORE3038 Segment state change blocked.

Source Files Generating Error Message: ss_tss.c.
Problem Description: An attempt to change a storage segment state to allocated was blocked by the state of the associated storage map.
System Action: HPSS_EBUSY is returned to the client.
Administrator Action: None - this is a server debugging message.

CORE3039 Segment not extendable.

Source Files Generating Error Message: ss_tss.c.
Problem Description: An attempt to change a storage segment state to allocated failed.
System Action: HPSS_EINVAL is returned to the client.
Administrator Action: None - this is a server debugging message.

CORE3040 Pointer %s is invalid, value: %p

Source Files Generating Error Message: ss_session.c
Problem Description: An attempt was made to create a new storage server session. The server found that one or more of the client's connection context pointers is invalid.
System Action: HPSS_EFAULT is returned to the client.
Administrator Action: This error is very unlikely to appear. If this error is observed, note if it occurs regularly or rarely. Contact HPSS support if this problem is frequent.

CORE3041 VV elements inconsistent: %s.

Source Files Generating Error Message: ss_core_api.c, ss_dvv.c, ss_tvv.c.
Problem Description: The physical volumes that are to make up a virtual volume are not consistent with each other.
System Action: HPSS_EINVAL is returned to the client.

Administrator Action: If the problem persists, look for the reason the client is specifying inconsistent sets of physical volumes in VV create functions.

CORE3042 Error creating SOID or UUID.

Source Files Generating Error Message: ss_core_api.c, ss_dss.c, ss_dvv.c, ss_session.c, ss_tss.c, ss_tvv.c.
Problem Description: An error occurred in a library procedure that creates a SOID or UUID.
System Action: HPSS_EFAULT is returned to the client.
Administrator Action: This is an unexpected but recoverable error. Check the log for other indications of problems. If the problem persists, contact HPSS software support.

CORE3043 No space remaining, storage class %d.

Source Files Generating Error Message: ss_diskspace.c, ss_dss.c, ss_session.c, ss_tss.c.
Problem Description: An attempt to create a storage segment has failed due to lack of free storage space. This error is also reported if a storage segment owner field is full and an additional owner cannot be added. The associated storage class is given in the message.
System Action: HPSS_ENOSPACE is returned to the client.
Administrator Action: Make free space available to the system.

CORE3044 Too many bitfile disk allocation recs, n: %u

Source Files Generating Error Message: ss_movedisksseg.c
Problem Description: More than one bitfile disk allocation row points to the disk storage segment to be moved.
System Action: The disk segment move operation fails with HPSS_ERANGE
Administrator Action: This is a defect in the BFS metadata. Contact HPSS support.

CORE3045 Cannot find a suitable VV for tape move segment target, SC: x Fam: x L: x

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: During a tape storage segment move operation (tape repack), the server was not able to find a tape virtual volume that could accept the segment.
System Action: HPSS_ENOSPACE is returned to repack.
Administrator Action: Check the supply of unwritten or partially written tape Vvs in the indicated storage class. If the "Fam" value is non-zero, then there must be a writable tape in the family and it must not be in use when repack runs, or, there must be unwritten tapes in the storage class.

CORE3046 Volume not mounted.

Source Files Generating Error Message: ss_readdisk.c, ss_tpv.c, ss_tvv.c, ss_writedisk.c.

Problem Description: An attempt was made to perform I/O on a virtual volume that is not mounted.
System Action: HPSS_ENOMOUNT or HPSS_EPERM is returned to the client.
Administrator Action: Check the log for corresponding messages from the storage segment layer. If the request comes from the storage segment layer, it has made an error which should be reported. If the request comes directly from a client, it is a client error.

CORE3047 Could not position tape %s while %s

Source Files Generating Error Message: ss_tvv.c.
Problem Description: An error was detected while trying to position a virtual or physical volume.
System Action: An error is returned to the client. The exact error depends on how the positioning operation failed. The error code will be in the log message header.
Administrator Action: Check the log for similar and related errors. This may be an indication of a more serious problem.

CORE3048 Media addressing error: %s.

Source Files Generating Error Message: ss_readdisk.c, ss_tpv.c, ss_tvv.c, ss_writedisk.c.
Problem Description: This is a general purpose log message that reports an error in a volume address.
System Action: An error is returned to the client.
Administrator Action: The log message text contains additional information about the error. Check the log for similar and related errors.

CORE3049 Volume state incorrect for function.

Source Files Generating Error Message: ss_core_api.c, ss_tmap.c, ss_tpv.c, ss_tvv.c.
Problem Description: The operational state of a physical volume is not appropriate for the attempted function. For example, an attempt has been made to read a scratched volume.
System Action: An error is returned to the client.
Administrator Action: None - this is a server debugging message.

CORE3050 Still waiting for PVL job %d to complete

Source Files Generating Error Message: ss_pvl_mount.c
Problem Description: A PVL mount job is taking too long to complete.
System Action: The server keeps waiting. A user's I/O operation is blocked.
Administrator Action: Investigate the status of the PVL job using the PVL SSM tools.

CORE3051 Resource not available, %s.

Source Files Generating Error Message: ss_dmap.c, ss_mapcommon.c, ss_readdisk.c, ss_tpv.c, ss_tvv.c, ss_writedisk.c.
Problem Description: The requested resource has been made administratively unavailable.
System Action: An error is returned to the client.
Administrator Action: If you want to make the resource available again, change the Admin State of the resource to ST_UNLOCKED.

CORE3052 Transaction aborted.

Source Files Generating Error Message: ss_core_api.c, ss_dpv_cache.c, ss_dss.c, ss_dss_cache.c, ss_dvv_cache.c, ss_tmap_cache.c, ss_tpv_cache.c, ss_tss.c, ss_tss_cache.c, ss_tvv.c, ss_tvv_cache.c.
Problem Description: A transaction aborted in a function that does not return an error. The abort reason is given in the message.
System Action: Depends on circumstance.
Administrator Action: None - this is a debug message. The log message is delivered to the log because the function in which the transaction took place does not return an error to any client. The purpose of the message is to prevent the error from going unreported. If the error repeats, contact HPSS software support.

CORE3053 Error in IOD/IOR: %s.

Source Files Generating Error Message: ss_diskio.c, ss_sscommon.c, ss_tpv.c, ss_tss.c.
Problem Description: An IOD returned by the Mover is badly formatted or contains some other unexpected error. Additional information about the nature of the error is included in the variable part of the message.
System Action: An error is returned for the I/O operation.
Administrator Action: Check the log for related errors from the Mover. If the problem persists, contact HPSS software support.

CORE3054 Cluster length for new disk VV %s was set to %lu bytes

Source Files Generating Error Message: ss_dmap.c
Problem Description: While creating a new disk virtual volume, the system was not able to use the storage class Storage Segment Size value for the new disk's Cluster Length. Doing so would have caused the disk to contain more clusters than the system can support.
System Action: The server calculated a new larger value for Cluster Length that met all of the server's requirements and then created the volume.
Administrator Action: Examine the finished disk volume to verify that the revised value for Cluster Length is suitable.

CORE3055 Cache miss — cache entry was marked destroyed

Source Files Generating Error Message: ss_dpv_cache.c, ss_dvv_cache.c, ss_tmap_cache.c, ss_tpv_cache.c, ss_tvv_cache.c.

Problem Description: An object that was expected to be found in the memory cache was not found.
System Action: Server action varies. In some cases this problem is recovered.
Administrator Action: Depends on the situation. In some cases this error is expected by the server and recovered. In other cases an examination of the log may reveal associated problems.

CORE3056 Could not build a disk storage map for <disk name>.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: The Core Server encountered a problem while building an in-memory free space map for a disk volume.
System Action: The Core Server sets the disk's VV condition to DOWN and continues onward to building another disk volume's free space map.
Administrator Action: This problem is most likely the result of bad metadata or storage class misconfiguration. Contact your HPSS support representative.

CORE3057 Error creating/connecting socket, details: <error details>

Source Files Generating Error Message: ss_diskio.c, ss_sscommon.c, ss_tpv.c.
Problem Description: An error was returned from a socket create or connect system call.
System Action: The calling function fails and an error is returned.
Administrator Action: The error code field of the log entry contains the error code returned by the HPSS socket support library function. The variable text portion of the message contains additional information about the error.

CORE3058 A segment in the input array is not on the right VV

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: Repack sent a tape storage segment to the Core Server to be moved to another volume. The Core Server determined that the segment is not on the VV that is being repacked.
System Action: The segment is left out of the list of segments to be moved. Repack continues.
Administrator Action: This is probably caused by a metadata defect, or a program error. Contact HPSS support.

CORE3059 The selected VV was not suitable: %s

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: This is an internal diagnostic message that does not necessarily mean that any problem exists. The server is looking for a tape VV to move segments to, and has seen some candidates that have been determined to be not suitable targets. The server is logging the reason why the targets are not suitable in case this information may be valuable later.
System Action: The continues to look for a suitable target VV.
Administrator Action: No action required.

CORE3060 Length error.

Source Files Generating Error Message: ss_dss.c, ss_tss.c.
Problem Description: A segment copy or move ended in error because the number of bytes moved or copied was not correct.
System Action: An error is returned to the client.
Administrator Action: An investigation of the log may yield more information about the error. If the error persists, contact HPSS software support.

CORE3061 IOR replies not consistent.

Source Files Generating Error Message: ss_sscommon.c, ss_tpv.c.
Problem Description: An inconsistency was noted while processing an IOR from the lower level of the server, or from a Mover.
System Action: An error is returned in the IOR being built.
Administrator Action: Check the log for indications of related errors from lower levels of the Core Server or from the Mover.

CORE3062 Time out error: %s.

Source Files Generating Error Message: ss_diskspace.c, ss_dpv_cache.c, ss_dss_cache.c, ss_dvv_cache.c, ss_pvl_wrappers.c, ss_tmap_cache.c, ss_tpv_cache.c, ss_tss_cache.c, ss_tvv_cache.c.
Problem Description: The event noted in the variable part of the log message timed out.
System Action: Depends on the event, but usually an error is returned to the client.
Administrator Action: Investigate the operation of the part of the system given in the variable part of the message.

CORE3063 I/O Error: %s.

Source Files Generating Error Message: ss_diskio.c, ss_pvcommon.c, ss_tvv.c.
Problem Description: An I/O request is out of range or similar error.
System Action: An error code is returned to the client.
Administrator Action: Try to determine which user file had this error and check that the file is properly recorded.

CORE3064 Object attribute change not supported.

Source Files Generating Error Message: ss_core_api.c, ss_tss.c.
Problem Description: An attempt was made to change an object attribute. The server does not support changing the requested attribute.
System Action: An error is returned to the client.
Administrator Action: None unless the error persists. Check the log to learn the object that the change refers to and where the request came from.

CORE3065 Could not mount volume: %s.

Source Files Generating Error Message: ss_dpv.c, ss_tpv.c.

Problem Description: An error occurred while trying to mount the volume named in the message.
System Action: An error is returned for the function requesting the mount operation.
Administrator Action: Check the log for additional information from the PVL and/or PVR to determine the cause of the error.

CORE3066 Cache entry is busy: %s

Source Files Generating Error Message: ss_dss_cache.c
Problem Description: The server is trying to delete a batch of disk storage segments, but cannot include all of the candidate segments in the batch. This is somewhat unusual, but not serious. The server notes this condition as it may be useful for some later debugging purpose.
System Action: The server fails to delete the batch of segments. The batch will be retried later. Errors of this sort seldom repeat.
Administrator Action: Contact HPSS support only if the error is repeating frequently. Occasional appearances of this error are not a cause for concern.

CORE3067 PVL dismount failed on %s.

Source Files Generating Error Message: ss_pvl_wrappers.c.
Problem Description: The PVL returned an error from a pvl_DismountVolume job.
System Action: The server logs the error and continues. Dismount errors cannot be recovered. This error does not cause an error to be returned to the client.
Administrator Action: Check the log for additional details. Check SSM PVL displays for tape dismount errors, and for information about the tape, or job, listed in the message. If the problem persists, contact HPSS support.

CORE3068 Adjusted SC %u free space by 0x%x%08x

Source Files Generating Error Message: ss_stats.c.
Problem Description: This is not an error. The server is logging that it adjusted the free space statistics by the approximate amount of free space that is represented by disk storage segments in the unlink table. This is space that will be returned to the free space pool, but is not available at the time the statistics were collected. The server adjusts the statistics so that the Migration Purge Server will not launch a purge of files on disk while a significant amount of disk space is waiting to be returned to the pool.
Administrator Action: None required. If this condition persists for a long time, there may be a problem with the background disk storage segment deletion function. In that case, contact HPSS support.

CORE3069 Unable to recover from missing mover error while mounting tapes

Source Files Generating Error Message: ss_tvv.c
Problem Description: The server is attempting to mount a tape virtual volume, but it getting errors while connecting to the tape movers, or some similar problem. The server retries several times, but has failed each time and has given up.

Administrator Action: Check the Mover host to make sure the Mover is running. Check configuration files to make sure the Movers are properly configured. If this problem persists, contact HPSS support.

CORE3070 Cannot connect to mover %s on %s, port %d, reason: %s

Source Files Generating Error Message: ss_diskio.c, ss_tpv.c.
Problem Description: An error occurred while attempting to make a connection to a Mover. The name of the host on which the Mover runs, and the Mover's port number are included in the message.
System Action: HPSS_ECONN is returned to the client.
Administrator Action: Check the Mover host to make sure the Mover is running. Check configuration files to make sure the Movers are properly configured. Movers are connected to the Core Server with Unix sockets, so this is probably not a security problem.

CORE3071 Error from send_iod sending to mover %s on %s.

Source Files Generating Error Message: ss_diskio.c, ss_tpv.c.
Problem Description: An error was returned by send_iod, the function that sends IODs to Movers. The Physical Volume name, device ID and host name are included in the log message.
System Action: The error code returned by send_iod is returned to the client.
Administrator Action: This error indicates a low level error in the socket connection between the Core Server and the Mover. Check the log for additional messages inserted by send_iod. Make sure the appropriate Movers are running. If the problem persists, contact HPSS software support.

CORE3072 Error from recv_ior receiving from mover %s on %s.

Source Files Generating Error Message: ss_diskio.c, ss_tpv.c.
Problem Description: An error was returned by recv_ior, the function that receives IORs from Movers. The Physical Volume name, device ID and host name are included in the log message.
System Action: The error code returned by recv_ior is returned to the client.
Administrator Action: This error indicates a low level error in the socket connection between the Core Server and the Mover. Check the log for additional messages inserted by recv_ior. Make sure the appropriate Movers are running. If the problem persists, contact HPSS software support.

CORE3073 Could not %s volume %s

Source Files Generating Error Message: ss_dss.c, ss_readdisk.c, ss_tss.c, ss_tvv.c, ss_writedisk.c.
Problem Description: The AdministrativeState of a volume is set to "locked", preventing any use of the volume.
System Action: HPSS_ELOCKED is returned to the client.

Administrator Action: Check the Condition of the named volume. The variable part of the message tells you if the operation in question was a read or a write, disk or tape and the name of the volume.

CORE3074 Cannot connect to Rait Engine on %s, port %d, reason: %s

Source Files Generating Error Message: ss_sockets.c
Problem Description: An error occurred while attempting to make a connection to a Rait Engine. The name of the host on which the Engine runs, and the Engine's port number are included in the message.
System Action: HPSS_ECONN is returned to the client.
Administrator Action: Check the Rait Engine host to make sure the Rait Engine is running. Check configuration files to make sure the Rait Engines are properly configured. Rait Engines are connected to the Core Server with Unix sockets, so this is probably not a security problem.

CORE3077 Database function %s returned an error while %s.

Source Files Generating Error Message: ss_core_api.c, ss_diskspace.c, ss_dmap.c, ss_dpv.c, ss_dpv_cache.c, ss_dss.c, ss_dss_cache.c, ss_dvv.c, ss_dvv_cache.c, ss_mapcommon.c, ss_stats.c, ss_tmap.c, ss_tmap_cache.c, ss_tpv.c, ss_tpv_cache.c, ss_tss.c, ss_tss_cache.c, ss_tvv.c, ss_tvv_cache.c, ss_util.c, ss_volume_attrs.c, ss_vvcommon.c.
Problem Description: This message is used to report errors returned by the metadata manager library, which drives the database.
System Action: An error is usually returned to the Core Server client.
Administrator Action: The error will include the name of the function that had the error and the task it was trying to accomplish at the time. The log message header also contains the name of the function in which the error was reported and the line number where the error occurred. All of this information should be considered to determine the cause of the problem. No specific instructions can be given to diagnose the underlying problem. Following this message, if DEBUG logging is enabled, you should find an additional message that contains the detailed error text from the database system that describes the error.

CORE3078 Database function %s returned an error for PV %s while %s.

Source Files Generating Error Message: ss_dpv.c, ss_dpv_cache.c, ss_tpv.c, ss_tpv_cache.c.
Problem Description: This message is used to report errors returned by the metadata manager library, which drives the database. The error is associated with a specific PV whose name is reported in the message.
System Action: An error is usually returned to the Core Server client.
Administrator Action: The error will include the name of the function that had the error and the task it was trying to accomplish at the time. The log message header also contains the name of the function in which the error was reported and the line number where the error occurred. All of this information should be considered to determine the cause of the problem. No specific instructions can be given to diagnose the underlying problem. Following this message, if DEBUG logging is enabled,

you should find an additional message that contains the detailed error text from the database system that describes the error.

CORE3079 Database function %s returned the NO DATA error while %s.

Source Files Generating Error Message: ss_mapcommon.c, ss_util.c, ss_volume_attrs.c.
Problem Description: The database returned the NO DATA error when an attempt was made to read a metadata record. In most cases the server was not expecting an error.
System Action: The server returns an error to the client.
Administrator Action: The error will include the name of the function that had the error and the task it was trying to accomplish at the time. The log message header also contains the name of the function in which the error was reported and the line number where the error occurred. All of this information should be considered to determine the cause of the problem. No specific instructions can be given to diagnose the underlying problem. Following this message, if DEBUG logging is enabled, you should find an additional message that contains the detailed error text from the database system that describes the error. Based on all of this information, the administrator will have to make a judgement about the severity of the error. This error may indicate, for instance, an inconsistency in the metadata database. It may also indicate merely that a request was made to read a non-existent object.

CORE3080 Failed to change tape cartridge %s to EOM

Source Files Generating Error Message: ss_mapcommon.c
Problem Description: An attempt to change the Condition of a tape VV to EOM failed.
System Action: The tape Condition is not changed
Administrator Action: This message is displayed on Alarms and Events when an EOM change fails and either the system ordered the change, or the Administrator ordered the change and the change was deferred. Additional messages should be found in the log to explain the failure.

CORE3081 Session handle invalid - no matching session.

Source Files Generating Error Message: ss_session.c.
Problem Description: The session handle presented by the client is invalid.
System Action: An error is returned to the client.
Administrator Action: None — if the problem persists, contact HPSS software support.

CORE3082 Database function %s returned a deadlock error. Will be retried.

Source Files Generating Error Message: Various
Problem Description: The server is trying to perform a database read or update operation and got a deadlock error from DB2. The causes of this error are complex and go well beyond the scope of this document.

System Action: The server may retry the operation, depending on the situation in which the error occurs.
Administrator Action: The administrator probably cannot do anything to mitigate this error. The error may be sensitive to workload, so lessening the workload may help, if that is possible. Occasional appearances of this error are acceptable, but frequent occurrences are not. Contact HPSS support if this problem is frequent or persistent.

CORE3083 Database function %s returned a lock timeout error. Will be retried

Source Files Generating Error Message: Various
Problem Description: The server is trying to perform a database read or update operation and got a lock timeout error from DB2. The causes of this error are complex and go well beyond the scope of this document.
System Action: The server may retry the operation, depending on the situation in which the error occurs.
Administrator Action: The administrator probably cannot do anything to mitigate this error. The error may be sensitive to workload, so lessening the workload may help, if that is possible. Occasional appearances of this error are acceptable, but frequent occurrences are not. Contact HPSS support if this problem is frequent or persistent.

CORE3084 Cannot change VV condition: %s.

Source Files Generating Error Message: ss_mapcommon.c.
Problem Description: The requested change to a VV Condition cannot be performed.
System Action: The VV Condition change fails.
Administrator Action: The log message will show the reason the change could not be performed. Check the state of the VV in detail to understand the reason.

CORE3086 Disk storage map not ready.

Source Files Generating Error Message: ss_dmap.c, ss_dss.c, ss_mapcommon.c, ss_stats.c, ss_volume_attrs.c.
Problem Description: The needed disk storage map was not ready for use when another part of the server needed it.
System Action: HPSS_EAGAIN is issued by the server, or the server waits a while then retries.
Administrator Action: In most cases the server, or the client, retries the operation after waiting a while for the map to become available. It should not be possible for this error to occur for more than a few minutes after the server first starts to run. If it does, contact HPSS support.

CORE3087 No disk maps in the storage class.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: No disk storage map could be found for the storage class.
System Action: The server returns an error.

Administrator Action: In most cases the server, or the client, retries the operation after waiting a while for the map to become available. It should not be possible for this error to occur for more than a few minutes after the server first starts to run. If it does, contact HPSS support.

CORE3088 One or more disk storage maps not initialized.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: One or more of the disk storage maps could not be initialized.
System Action: The initialization function waits 5 minutes, then tries again.
Administrator Action: This is a serious error that may indicate a defect in the Core Server's disk storage segment metadata, or another serious error. Contact HPSS support.

CORE3089 Tape cartridge %s has been changed to EOM.

Source Files Generating Error Message: ss_mapcommon.c
Problem Description: Not a problem.
System Action: None — correct operation.
Administrator Action: A server generated change to a VV, setting the Condition to EOM, was successful. The VV that was changed is named in the message. This message is generated when the server orders the VV Condition change, or when an Administrator ordered change was deferred.

CORE3090 %s %s is write protected, Condition changed to Read-Only

Source Files Generating Error Message: ss_vvcommon.c.
Problem Description: A disk or tape VV was found to be write protected.
System Action: The Core Server changes the VV to Read-Only Condition to prevent further attempts to write the VV.
Administrator Action: Examine the VV to determine if the write protection is desired and correct.

CORE3091 Tape cartridge %s could not be mounted, condition changed to DOWN.

Source Files Generating Error Message: ss_vvcommon.c.
Problem Description: A VV condition has been changed to Down and this is an informative message telling us of this change.
System Action: The Core Server continues.
Administrator Action: No action is required.

CORE3092 Could not align tape %s while %s

Source Files Generating Error Message: ss_vvcommon.c.
Problem Description: An error was reported while attempting to write tape marks to align a tape volume.
System Action: The tape read or write operation fails.
Administrator Action: The tape volume will be dismounted in an attempt to reset its state and potentially mount it on other tape drives.

CORE3093 Failed to disable tape drive %d.

Source Files Generating Error Message: ss_tpv.c.
Problem Description: The server is attempting to disable a tape drive after failing to make a connection to a tape mover. It was not able to disable the tape drive.
System Action: The server will retry, but probably won't be successful.
Administrator Action: Check the condition of tape movers, the PVL, and PVRs. Basic communication has failed in the system. It is likely that this error will occur along with a variety of other errors that suggest a general communications failure. Contact HPSS support if restarting the servers does not clear the problem.

CORE3094 Out of Rait Engine connections, RE: %s host: %s.

Source Files Generating Error Message: ss_tapeio.c
Problem Description: The server was not able to make a new connection to a Rait Engine.
System Action: The I/O operation that needed the connection fails.
Administrator Action: Other than to reduce workload in the system, the administrator cannot mitigate this problem. Contact HPSS support if the problem persists.

CORE3095 Disk volume %s could not be mounted, set to OFFLINE.

Source Files Generating Error Message: ss_dvv.c
Problem Description: A wide variety of circumstances can cause the server to set a disk virtual volume to "OFFLINE". This message informs the administrator that the change in state has taken place.
System Action: None — this is a message describing an event that completed correctly.
Administrator Action: The event that caused the server to change the VV state will precede this message in the log.

CORE3096 Out of disk mover connections, mover: %s host: %s.

Source Files Generating Error Message: ss_diskio
Problem Description: The server was not able to make a new connection to a disk mover.
System Action: The I/O operation that needed the connection fails.
Administrator Action: Other than to reduce workload in the system, the administrator cannot mitigate this problem. Contact HPSS support if the problem persists.

CORE3097 Cannot upgrade resource lock.

Source Files Generating Error Message: ss_locks.c.
Problem Description: The server notes this condition in the log in case it becomes valuable for later debugging. The server was attempting to obtain resource locks on several resources needed to perform a disk segment move operation, but was not able to obtain them without waiting.

System Action: The disk move operation is associated with disk repack. Repack will retry the operation at some later time.
Administrator Action: The problem normally clears itself. If it persists, contact HPSS support.

CORE3098 Deferred state change completed on %s volume %s

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: This is not an error. The server is informing the administrator that a virtual volume state change that was blocked while the VV was in use has completed.
System Action: The server completes the state change.
Administrator Action: None.

CORE3099 Allocation requires a block that is too large.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: A request to allocate disk space has asked for more space than the free space map can map.
System Action: The server will try to allocate the space from another VV.
Administrator Action: If this error persists, or causes a failure in a user disk write, the configuration of the disk storage classes and the disk volumes should be examined for irregularities. A storage class may be configured to allocate space at sizes larger than the disk volumes are configured to provide.

CORE3100 Invalid composite address ignored in: PV: %s, Element: %d, Type 0x%x

Source Files Generating Error Message: ss_tvv.c
Problem Description: The types of absolute addresses associated with two or more tape physical volumes don’t match correctly. They should all be Logical Block Addresses or all Cookies.
System Action: A tape write operation will probably fail.
Administrator Action: Make sure all "fast locate" settings on tape drives match.

CORE3101 No mover provides support for file system %d.

Source Files Generating Error Message: ss_diskspace.c.
Problem Description: A file system is defined in metadata, but a mover cannot be found that has been matched to the file system.
System Action: A disk space allocation may fail.
Administrator Action: Adjust metadata to associate a mover with each file system.

CORE3102 Duplicate reply from PVL for volume %s, job %d.

Source Files Generating Error Message: ss_pvl_mount.c.
Problem Description: The server received a duplicate reply from the PVL about a disk or tape mount job that is in progress.
System Action: The server discards the duplicate reply.

Administrator Action: If this is a rare occurrence, no action is necessary. If this happens frequently, contact HPSS support.

CORE3103 Unmatched reply from PVL for volume %s, job %d.

Source Files Generating Error Message: ss_pvl_mount.c.
Problem Description: The server received a reply from the PVL that cannot be matched to an outstanding PVL mount job.
System Action: The server discards the reply.
Administrator Action: If this is a rare occurrence, no action is necessary. If this happens frequently, contact HPSS support.

CORE3104 Unable to force PVL job %d to complete.

Source Files Generating Error Message: ss_pvl_mount.c.
Problem Description: The server attempted to resynchronize itself with the PVL, but was not completely successful.
System Action: A PVL mount job will fail.
Administrator Action: If this is a rare occurrence, no action is necessary. If this happens frequently, contact HPSS support.

CORE3105 PVL job %d vanished.

Source Files Generating Error Message: ss_pvl_mount.c.
Problem Description: The server discovered an unfinished PVL mount job that the PVL does not have in its list of jobs.
System Action: The PVL mount job fails in the Core Server.
Administrator Action: If this is a rare occurrence, no action is necessary. If this happens frequently, contact HPSS support.

CORE3106 A reply was generated for PVL job %d, volume %s.

Source Files Generating Error Message: ss_pvl_mount.c.
Problem Description: The server discovered a PVL mount job that the PVL considers to be done, but the server sees as incomplete. After some period of time, the server generates a reply message based on the job status provided by the PVL.
System Action: The PVL mount job will probably complete without error.
Administrator Action: If this is a rare occurrence, no action is necessary. If this happens frequently, contact HPSS support.

CORE3107 ResourceLock field was non-zero

Source Files Generating Error Message: ss_dss.c
Problem Description: The server discovered a resource lock in a cache entry's resource lock field, when it didn't expect to find one.
System Action: A disk storage segment delete operation fails.
Administrator Action: If this is a rare occurrence, no action is necessary. If this happens frequently, contact HPSS support.

CORE3108 Failed to change Condition of write protected %s %s to Read-Only

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The server was unable to change the Condition of a tape VV to Read-Only after receiving a write protection error on the VV.
System Action: The change operation fails.
Administrator Action: The name of the VV is given in the message. Examine the VV using SSM and attempt to change the Condition to Read-Only. Contact support if this cannot be done.

CORE3109 Failed to change condition of unmountable tape cartridge %s to DOWN

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The server was unable to change the Condition of a tape VV to Down.
System Action: The change operation fails.
Administrator Action: The name of the VV is given in the message. Examine the log for information about the error. Examine the VV using SSM and attempt to change the Condition to Down. Contact support if this cannot be done.

CORE3110 Deferred state change failed on %s volume %s

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The server was unable to change the Condition of a disk or tape VV.
System Action: The change operation fails.
Administrator Action: The name of the VV is given in the message. Examine the VV using SSM and look for irregularities. Check the log for messages that explain the error. Contact support if this problem cannot be explained.

CORE3111 Failed to set unmountable disk volume %s to OFFLINE

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The server was unable to set the OFFLINE flag in a disk volume.
System Action: The "set offline" operation fails.
Administrator Action: The name of the VV is given in the message. Examine the log for information about the error. Examine the VV using SSM and attempt to set the "OFFLINE" flag. Contact support if this cannot be done.

CORE3112 Move segment source segment may be orphaned

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: While preparing to move a tape storage segment to a new volume, the Core Server was unable to find any file that points to the segment.
System Action: Repack continues, leaving the segment on the source tape VV
Administrator Action: Contact HPSS support

CORE3113 No bitfiles were locked by move segment

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: While preparing to move a tape storage segment to a new volume, the Core Server was unable to lock any of the files that point to the segment
System Action: Repack continues, leaving the segment on the source tape VV
Administrator Action: Retry the repack operation at a later time. If the problem persists, contact HPSS support.

CORE3115 Cannot unlock a file after moving a segment

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: After copying a tape storage segment, the Core Server was unable to unlock the file.
System Action: Repack continues, leaving the segment on the source tape VV
Administrator Action: This is an unexpected error. Retry the repack operation at a later time. If the problem persists, contact HPSS support.

CORE3116 Sink segment was removed

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: After copying a tape storage segment, the Core Server encountered an error and removed the sink segment.
Administrator Action: This is an unexpected error. Retry the repack operation at a later time. If the problem persists, contact HPSS support.

CORE3117 Cannot find any free space, SC: %u, Fam: %u, L: 0x%x%08x, R: %d, P: %d

Source Files Generating Error Message: ss_tss.c, ss_diskspace.c
Problem Description: The Core Server was unable to find sufficient free disk or tape storage space to meet an allocation request.
Administrator Action: The message contains details about the requested space — Storage Class, Family,Length in bytes (L) and flags that are useful for understanding certain details (R, P). The administrator should check the free space in the indicated storage class. If this message appears for a tape storage class, look at the value of "R". If R is non-zero, the request was for tape space for repack output. Survey the tapes with **dump_sspvs** to understand the availability of tapes in the storage class for **repack** to write. If R is zero, the request was for a migration, or for a direct to tape operation. Survey the tapes with **dump_sspvs** to understand the availability of those sorts of tapes.

CORE3118 Repack tape read operation on volume %s timed out

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: A "move tape segment" operation for a tape **repack** job has noticed that the data read portion of the tape to tape copy is not progressing, or progressing too slowly.
Administrator Action: The Core Server aborts the move tape move segment operation and will return HPSS_ETIMEDOUT to repack. Metadata changes are rolled back. Look for non-responsive tape devices, failed movers, etc. When it is safe to do so, the server will wait for the read operation to complete, before returning to **repack**.

CORE3119 Still waiting for repack tape read to finish

Source Files Generating Error Message: ss_movetapeseg.c
Problem Description: A "move tape segment" operation for a tape **repack** job has noticed that the data read portion of the tape to tape copy is not progressing, or progressing too slowly. The operation has failed and the server is waiting for the data read operation to complete before returning to **repack**.
Administrator Action: Look for non-responsive tape devices, failed movers, etc. The server will wait for the tape read operation to complete, or to return an error, before returning to **repack**. This message will be repeated from time to time until the blocked tape read completes or returns an error.

CORE3120 Tape VV %s dismounted after OFFLINE, NOTREADY or EOM error

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The server dismounted a tape VV after one of the indicated errors occurred, or after reaching EOM.
System Action: This dismount takes place.
Administrator Action: The name of the VV is given in the message. On EOM, no action is required — this is a normal state change for a tape VV. After an OFFLINE or NOTREADY error, examine the log for information about the error. Contact support if the cause of the error is not understood.

CORE3121 Rait Engine terminated prematurely: %s

Source0 Files Generating Error Message: ss_tapeio.c
Problem Description: The server sensed a Rait Engine termination when it was waiting for a reply message.
System Action: The tape I/O operation fails.
Administrator Action: The event the server was waiting for is listed in the message. Examine the log for supporting information. Contact support if this becomes a persistent problem.

CORE3122 Error from send_iod sending to Rait Engine %s on %s.

Source Files Generating Error Message: ss_tapeio.c
Problem Description: An error was returned by send_iod, the function that sends IODs to Rait Engines. The Rait Engine ID and host name are included in the message.
System Action: The error code returned by send_iod is returned to the client.
Administrator Action: This error indicates a low level error in the socket connection between the Core Server and the Rait Engine. Check the log for additional messages inserted by send_iod. Make sure the appropriate Rait Engines are running. If the problem persists, contact HPSS software support.

CORE3123 Error from recv_ior receiving from Rait Engine %s on %s.

Source Files Generating Error Message: ss_tapeio.c

Problem Description: An error was returned by recv_ior, the function that receives IORs from Rait Engines. The Rait Engine ID and host name are included in the message.
System Action: The error code returned by recv_ior is returned to the client.
Administrator Action: This error indicates a low level error in the socket connection between the Core Server and the Rait Engines. Check the log for additional messages inserted by recv_ior. Make sure the appropriate Rait Engines are running. If the problem persists, contact HPSS software support.

CORE3124 Error parsing Mover or Rait Engine IOR: %s

Source Files Generating Error Message: ss_sscommon.c, ss_tapeio.c
Problem Description: An error was returned by an IOR parser. The parse was unable to parse an IOR returned by a disk or tape Mover or a Rait Engine.
System Action: The read or write operation fails. The server aborts the transfer and no data is considered to have been moved, no matter how long the transfer.
Administrator Action: Additional information about the reason for the parsing error is included in the message. The log may contain additional information. These errors are usually not correctable by the Admin. If the problem persists, contact HPSS software support.

CORE3125 PVL did not mount PV %s in PVL job %d

Source Files Generating Error Message: ss_pvl_mount.c
Problem Description: The PVL elected not to mount one of the tapes of a Rait VV.
System Action: The tape I/O operation will continue assuming the PV is not necessary.
Administrator Action: The Admin should examine the log for additional information that explains the reason the tape was not mounted. Additional action, such as setting the PV to DOWN may be needed.

CORE3126 PV %s missing in non-Rait mount job, job id = %d

Source Files Generating Error Message: ss_tpv.c
Problem Description: The PVL failed to mount a tape PV that was needed in a non-Rait I/O operation.
System Action: The tape I/O operation fails with a mount error.
Administrator Action: The Admin should examine the log for additional information that explains the reason the tape was not mounted. This error should be reported to HPSS support as it represents a logic error in either the Storage Server or the PVL.

CORE3127 Tape %s was not mounted, Rait read or write continues

Source Files Generating Error Message: ss_tpv.c
Problem Description: The PVL elected not to mount one of the tapes of a Rait VV.
System Action: The tape I/O operation will continue assuming the PV is not necessary.

Administrator Action: The Admin should examine the log for additional information that explains the reason the tape was not mounted. Additional action, such as setting the PV to DOWN may be needed.

CORE3128 %u PVs were mounted, minimum is %u, VV: %s

Source Files Generating Error Message: ss_tpv.c
Problem Description: The server found that the minimum number of PVs were not mounted in a Rait VV.
System Action: The tape I/O operation fails with a mount error.
Administrator Action: The Admin should examine the log for additional information that explains the reason the tape was not mounted. This error should be reported to HPSS support as it represents a logic error in either the Storage Server or the PVL.

CORE3129 PV %s left out of PVL job %d

Source Files Generating Error Message: ss_pvl_mount.c
Problem Description: The server is noting in the log that it is leaving a PV out of a PVL mount job.
System Action: This is not an error. The server continues.
Administrator Action: This is a diagnostic message placed in the log in case the PVL mount job fails in some unexpected way. No action is necessary.

CORE3130 Too many PVs are unmountable in VV %s

Source Files Generating Error Message: ss_tvv.c
Problem Description: The server is has discovered that there are not enough mountable Pvs to satisfy the requirements of a tape read or write operation.
System Action: The I/O operation fails with a mount error.
Administrator Action: This error indicates a logic error in the Storage Sever. Save the system log associated with this event. Contact HPSS support.

CORE3132 Dismounting and remounting tape %s

Source Files Generating Error Message: ss_tapeio.c
Problem Description: The server is has discovered a tape VV is mounted in a way that is not suitable for the operation at hand. For instance, it may be a Rait volume mounted for reading that is being written, and some of the needed PVs are not mounted.
System Action: The server dismounts the VV and then starts a new mount job.
Administrator Action: This is a diagnostic message placed in the log in case the PVL mount job fails in some unexpected way. No action is necessary.

CORE3133 Cannot change Condition of %s, %s

Source Files Generating Error Message: ss_mapcommon.c

Problem Description: The server has decided it cannot change the Condition of a PV in a Rait volume. The message gives the name of the PV and the reason for the failure.
System Action: The PV/VV Condition change fails.
Administrator Action: This error occurs when the Admin attempts to change a PV's Condition to Read-Write from Read-Only or Down. If the VV has been written since it was changed to Read-Only or Down, the PV has been left out of a write operation and cannot be added to the group of writable Pvs. Short of repacking the VV and reclaiming it, this situation cannot be changed.

CORE3134 Disk VV %s dismounted after OFFLINE or NOTREADY error

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The server dismounted a disk VV after one of the indicated errors occurred.
System Action: This dismount takes place.
Administrator Action: The name of the VV is given in the message. Examine the log for information about the error. Contact support if the cause of the error is not understood.

CORE3135 Mount error flag set in tape %s

Source Files Generating Error Message: ss_mapcommon.c
Problem Description: Not a problem. The server is noting the successful setting of a "Mount Error" flag in a Rait PV.
System Action: None.
Administrator Action: This is an Event message noting the change in state of the PV/VV.

CORE3136 Read error flag set in tape %s

Source Files Generating Error Message: ss_mapcommon.c
Problem Description: Not a problem. The server is noting the successful setting of a "Read Error" flag in a Rait PV.
System Action: None.
Administrator Action: This is an Event message noting the change in state of the PV/VV.

CORE3137 Could not set mount error flag in tape %s

Source Files Generating Error Message: ss_mapcommon.c
Problem Description: The server was not able to set the "Mount Error" flag in the named PV.
System Action: The VV/PV Condition change fails.
Administrator Action: Additional information about the error will be found in the log. If this information does not explain the failure, contact HPSS support.

CORE3138 Could not set read error flag in tape %s

Source Files Generating Error Message: ss_mapcommon.c
Problem Description: The server was not able to set the "Read Error" flag in the named PV.
System Action: The VV/PV Condition change fails.
Administrator Action: Additional information about the error will be found in the log. If this information does not explain the failure, contact HPSS support.

CORE3139 Write error flag set in tape %s; tape PV is now read-only

Source Files Generating Error Message: ss_writetape.c
Problem Description: Not a problem. The server is noting the successful setting of a "Write Error" flag in a Rait PV.
System Action: The Rait tape write operation fails.
Administrator Action: This is an Event message noting a Rait write error and change in state of the PV/VV. Additional information will be available in the log. The action to be taken by the Admin depends on the detailed cause of the error.

CORE3140 Rait VV %s forced to read-only by write errors.

Source Files Generating Error Message: ss_writetape.c
Problem Description: Not a problem. The server is noting that a Rait VV it was writing had been forced into a Read-Only condition by accumulated write errors. As the number of Pvs that cannot be written increases, at some point the minimum number of writable PVs cannot be met and the VV Condition is changed.
System Action: The Rait tape write operation fails.
Administrator Action: This is an Event message noting a Rait write error and change in state of the PV/VV. Additional information will be available in the log. The action to be taken by the Admin depends on the detailed cause of the error.

CORE3141 The client terminated the transfer.

Source Files Generating Error Message: ss_writetape.c
Problem Description: The server is noting that a Rait tape write operation failed, but not because of a media write error. In this case the server assumes the client terminated the transfer.
System Action: The Rait tape write operation fails.
Administrator Action: Additional information will be available in the log, including a full set of IODs and IORs sent to and received from the tape movers and Rait Engines. This information must be examined in detail to learn the reason for the failure. Contact HPSS support for help.

CORE3142 Previous disk mount failed, VV is changing to DOWN

Source Files Generating Error Message: ss_dvv.c
Problem Description: The server is noting that it was waiting for a disk mount to complete, when an error was raised in the mount job and the server decided to change the VV Condition to Down. Subsequent disk mount attempts will post this error in the log.
System Action: The disk read or write operation fails with a mount error.

Administrator Action: Additional information will be available in the log. Examine the state of the disk volume in question. Contact HPSS support for additional help.

CORE3143 PVL mount job %d timed out — trying to mount %s

Source Files Generating Error Message: ss_pvl_mount.c
Problem Description: A PVL disk mount job has timed out. The server waits a limited time for disk mount jobs to complete, then raises the HPSS_EMOUNT_TIMEOUT error.
System Action: The disk read or write operation fails with a mount error.
Administrator Action: Additional information will be available in the log. Examine the state of the disk volume in question. Contact HPSS support for additional help.

CORE3144 Tape read error, PV: <Name>, Mover: <Name>, DevID: <ID>, DevName: <Name>, DevType: <Type>, DrvAddr: <Address>, at Sec: <Section #>, Off: <Offset>, ETL: <Expected Tape Length>, ATL: <Actual Tape Length>

Source Files Generating Error Message: ss_util.c
Problem Description: An error occurred on the indicated tape physical volume (PV) while reading from a tape virtual volume.
System Action: The read error is logged in the PV History and the PV is flagged as having experienced a read error.
Administrator Action: Additional information will be available in the PV History. Examine the state of the tape volume in question. If the read error is repeatable, repack the volume.

CORE3145 Tape write error, PV: <Name>, Mover: <Name>, DevID: <ID>, DevName: <Name>, DevType: <Type>, DrvAddr: <Address>, at Sec: <Section #>, Off: <Offset>, ETL: <Expected Tape Length>, ATL: <Actual Tape Length>

Source Files Generating Error Message: ss_util.c
Problem Description: An error occurred on the indicated tape physical volume (PV) while writing to a tape virtual volume (VV).
System Action: The read error is logged in the PV History and the PV is permanently set to a read-only (RO) state. HPSS may also alter the state of the entire tape VV.
Administrator Action: If the volume in question is a RAIT volume: if setting the indicated PV to RO state brings the entire RAIT virtual volume below the storage class' Minimum Write Parity threshold, the entire RAIT volume is effectively no longer writable. Consider repacking the tape volume.

CORE3146 Tape mount error, PV: <PV Name>

Source Files Generating Error Message: ss_util.c
Problem Description: HPSS was not able to mount the indicated tape physical volume (PV).
System Action: The mount error is logged in the PV History and the PV is flagged as having experienced a mount error. Several avenues of action will be taken, depending on circumstances:

- If writing to a RAIT virtual volume (VV), and enough PVs within the RAIT VV are mounted to successfully begin the write, the PV will be set to a permanent DOWN state. If setting the indicated PV to an unusable state brings the entire RAIT VV below the storage class' Minimum Write Parity threshold, the entire RAIT volume is effectively no longer writable.
- If reading from a RAIT VV, the read will continue if enough PV's within the RAIT VV have mounted.
- If reading from a non RAIT VV, the read will fail.

Administrator Action:. If the error is repeatable on a RAIT VV, consider repacking the tape volume.

CORE3147 **Tape position error, PV: <Name>, Mover: <Name>, DevID: <ID>, DevName: <Name>, DevType: <Type>, DrvAddr: <Address>, at Sec: <Section #>, Off: <Offset>**

Source Files Generating Error Message: ss_util.c
Problem Description: HPSS failed to position a tape physical volume (PV) to the correct location.
System Action: The positioning error is logged in the PV History. The state of the tape virtual volume (VV) may be altered to EOM or DOWN, depending on the nature of the positioning failure.
Administrator Action: Additional information will be available in the log. Examine the state of the tape VV in question. Contact HPSS support for additional help.

CORE3148 **Tape write tm error, PV: <Name>, Mover: <Name>, DevID: <ID>, DevName: <Name>, DevType: <Type>, DrvAddr: <Address>, at Sec: <Section #>, Off: <Offset>**

Source Files Generating Error Message: ss_util.c
Problem Description: HPSS was unable to write a tape mark to a tape physical volume (PV).
System Action: The failure is logged in the PV History. The state of the tape virtual volume (VV) may be altered to EOM, depending on the nature of the tape mark failure.
Administrator Action: Additional information will be available in the log. Examine the state of the tape volume in question. Contact HPSS support for additional help.

CORE3149 **Media or device error <Error Name> occurred while reading tape <PV Name>**

Source Files Generating Error Message: ss_readtape.c
Problem Description: HPSS was unable to read the tape virtual volume (VV) that contains the indicated tape physical volume.
System Action: Depending on the nature of the read failure, HPSS may alter the tape VV's state.
Administrator Action: Additional information will be available in the log. Examine the state of the tape volume in question. Contact HPSS support for additional help.

CORE3150 **Client error <Error Name> caused a tape read to fail while reading <PV Name>**

Source Files Generating Error Message: ss_readtape.c
Problem Description: The client told HPSS to cancel the tape read attempt. This is an informational message.
System Action: None.
Administrator Action: None.

CORE3151 Media or device error <Error Name> occurred while reading RAIT tape volume <PV Name>

Source Files Generating Error Message: ss_readtape.c
Problem Description: HPSS was unable to read a the RAIT virtual volume (VV) that contains the indicated tape physical volume.
System Action: Depending on the nature of the read failure, HPSS may alter the RAIT VV's state.
Administrator Action: Additional information will be available in the log. Examine the state of the tape volume in question. If the read error is repeatable and you determine that it is *not* caused by a tape drive, repack the volume.

CORE3152 Client error <Error Name> caused a RAIT tape read to fail while reading <PV Name>

Source Files Generating Error Message: ss_readtape.c
Problem Description: The client told HPSS to cancel the tape read attempt. This is an informational message.
System Action: None.
Administrator Action: None.

CORE3153 Client data was recovered while reading RAIT tape <PV Name>

Source Files Generating Error Message: ss_readtape.c
Problem Description: A tape read error occurred, but HPSS was able to read through the error by regenerating the data from parity.
System Action: The system logs that the event occurred.
Administrator Action: Additional information will be available in the log. Examine the state of the tape volume in question. If the error is repeatable and not due to a tape drive failure, consider repacking the tape volume.

CORE3154 Media or device error <Error Name> occurred while writing tape <PV Name>

Source Files Generating Error Message: ss_writetape.c
Problem Description: HPSS was unable to write the tape virtual volume (VV) that contains the indicated tape physical volume.
System Action: Depending on the nature of the write failure, HPSS may alter the tape VV's state.
Administrator Action: Additional information will be available in the log. Examine the state of the tape volume in question. Contact HPSS support for additional help.

CORE3155 Client error <Error Name> caused a tape write to fail while writing <PV Name>

Source Files Generating Error Message: ss_writetape.c
Problem Description: The client told HPSS to cancel the tape write attempt. This is an informational message.
System Action: None.
Administrator Action: None.

CORE3156 Media or device error <Error Name> occurred while reading disk <PV Name>

Source Files Generating Error Message: ss_readdisk.c
Problem Description: HPSS was unable to read from the disk virtual volume (VV) that contains the indicated disk physical volume.
System Action: Depending on the nature of the read failure, HPSS may alter the disk VV's state.
Administrator Action: Additional information will be available in the log. Examine the state of the disk volume in question. Contact HPSS support for additional help.

CORE3157 Client error <Error Name> caused a disk read to fail while reading <PV Name>

Source Files Generating Error Message: ss_readdisk.c
Problem Description: The client told HPSS to cancel the disk read attempt. This is an informational message.
System Action: None.
Administrator Action: None.

CORE3158 Media or device error <Error Name> occurred while writing disk <PV Name>

Source Files Generating Error Message: ss_writedisk.c
Problem Description: HPSS was unable to write to the disk virtual volume (VV) that contains the indicated disk physical volume.
System Action: Depending on the nature of the write failure, HPSS may alter the disk VV's state.
Administrator Action: Additional information will be available in the log. Examine the state of the disk volume in question. Contact HPSS support for additional help.

CORE3159 EOM reached while writing tape volume <PV Name>

Source Files Generating Error Message: ss_writetape.c
Problem Description: While writing to a tape volume, end of media (EOM) was reached. This is an informational message.
System Action: HPSS alters the tape VV's state to EOM.
Administrator Action: None.

CORE3160 Unexpected error <Error Name> while <performing I/O upon media type> <PV detail>

Source Files Generating Error Message: ss_readdisk.c, ss_writedisk.c, ss_readtape.c, ss_writetape.c
Problem Description: An unexpected, atypical I/O error occurred.

System Action: Various actions are taken depending on the nature of the specific error condition.
Administrator Action: Additional information will be available in the log. Examine the state of the media volume in question. Contact HPSS support for additional help.

CORE3164 Disk VV <name> has too many clusters, the free space map cannot be built

Source Files Generating Error Message: ss_diskspace.c
Problem Description: When attempting to build the free space map for a disk, the server found a larger number of clusters on the disk than it is capable of mapping.
System Action: The server does not build the free space map and sets the disk to DOWN.
Administrator Action: The disk will have to be emptied of files and removed from the system, then re-created. The server will enforce rules so that the new disk's configuration meets all of the server's requirements.

CORE3165 Disk volume <name> has been set to OFFLINE status because of a device or mover failure

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: This is an EVENT message. Look for recent log messages that explain the reason this action was taken.
System Action: The Core Server sets the OFFLINE flag in the disk VV
Administrator Action: Look for log messages that explain the reason the system took this action. They should appear immediately before this message.

CORE3166 Disk mover failed but could not set disk volume <name> to OFFLINE status

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: The Core Server captured a disk mover failure, but was not able to set the corresponding disk VV to OFFLINE during the error recovery.
System Action: The disk VV remains ONLINE
Administrator Action: Inspect the log to find the reason the Core Server was unable to set the OFFLINE flag in the VV.

CORE3167 Mover <name> on <hostname> failed while reading or writing disk <name>

Source Files Generating Error Message: ss_readdisk.c, ss_dvv.c, ss_writedisk.c
Problem Description: The Core Server captured an error from a disk mover caused by termination of the mover.
System Action: The Core Server sets the OFFLINE flag in the disk VV and dismounts the disk VV. The client read or write operation gets the HPSS_EMEDIA_OFFLINE error.
Administrator Action: Find the cause for the disk mover failure. When it is corrected, restart the movers and clear the OFFLINE flag in the disk VV.

CORE3168 Mover <name> on <hostname> failed while reading or writing tape <name>

Source Files Generating Error Message: ss_readtape.c, ss_tapeio.c, ss_writetape.c

Problem Description: The Core Server captured an error from a tape mover caused by termination of the mover.
System Action: The Core Server dismounts the tape VV, puts an entry in the PV History database table detailing the error and returns the HPSS_EMEDIA_OFFLINE error to the client operation.
Administrator Action: Find the cause for the tape mover failure. When it is corrected, restart the movers.

CORE3169 Device Not Ready error from <volume name> while <action>

Source Files Generating Error Message: ss_dvv.c, ss_readdisk.c, ss_readtape.c, ss_writedisk.c, ss_writetape.c
Problem Description: The Core Server received a Device Not Ready error from a disk or tape mover while performing the indicated operation.
System Action: Disk VVs are set offline and dismounted. Tape VVs are dismounted and a PV History entry is made to record the details of the error. The client operation fails with the Not Ready error.
Administrator Action: Check the status of the indicated movers and devices and make the device ready. In the case of disk VVs, clear the OFFLINE flag when the device is ready.

CORE3170 Write protect error from <volume name> while writing the <disk|tape>

Source Files Generating Error Message: ss_writedisk.c, ss_writetape.c
Problem Description: The Core Server received a Write Protect error from a disk or tape mover.
System Action: Disk and tape VVs are set to Read Only to prevent subsequent write attempts. A tape PV History entry is made to record the details of the error.
Administrator Action: Examine the state of the disk or tape device or media to determine the cause of the error.

CORE3171 Metadata update skipped for <tape volume name>

Source Files Generating Error Message: ss_movetapeseg.c, ss_readtape.c, ss_writetape.c
Problem Description: This is a diagnostic message put into the log to aid in understanding of the error flow in the server after specific events. This is not, in itself, an indication of an error.
System Action: The system does not update a tape VV's metadata.
Administrator Action: None.

CORE3172 Reminder: Disk VV <name> is OFFLINE - may cause migration and fetch errors

Source Files Generating Error Message: ss_dmap.c
Problem Description: This message is displayed periodically in Alarms and Events when one or more disk VVs are Offline. This is an informational message.
System Action: None

Administrator Action: For the affected volumes, in the hpssgui's Core Server Disk Volume window, deselect the *Offline* checkbox. If there are no problems in contacting the mover that controls the disks, the disk volumes will be placed Online.

CORE3173 Disk VV <name> has been put OFFLINE by the operator

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: This is an informational message indicating that a previously-Online disk has been marked as Offline by an HPSS administrator.
System Action: HPSS will no longer use the specified disk volume for reads nor writes until the volume is placed back into Online status.
Administrator Action: None

CORE3174 Disk VV <name> has been put ONLINE by the operator

Source Files Generating Error Message: ss_vvcommon.c
Problem Description: This is an informational message indicating that a previously-Offline disk has been returned to Online status by an HPSS administrator.
System Action: HPSS will resume using the disk volume for reads and writes.
Administrator Action: None

CORE4001 Call to Bitfile Service routine %s failed.

Source Files Generating Error Message: core_APIs.c.
Problem Description: A call has been made to the Bitfile Service portion of the Core Server and this call has failed.
System Action: The error is logged and returned to the client.
Administrator Action: None.

CORE4002 Call to Name Service routine %s failed.

Source Files Generating Error Message: core_APIs.c.
Problem Description: A call has been made to the Name Service portion of the Core Server and this call has failed.
System Action: The error is logged and returned to the client.
Administrator Action: None.

CORE4008 Error adding extended transaction.

Source Files Generating Error Message: core_ExTrans.c.
Problem Description: The Client API is attempting to construct the data structure needed to manage an external transaction. While attempting to add the data structure to its list, it received an error.
System Action: The error is logged and returned to the client.
Administrator Action: None.

CORE4009 Error ending extended transaction.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c.

Problem Description: There are various points at which the Client API makes a call to EndTransaction. One of these calls has failed.
System Action: The error is logged and returned to the client.
Administrator Action: None.

CORE4010 Error finding extended transaction.

Source Files Generating Error Message: core_ExTrans.c.
Problem Description: A call to GetTransaction has failed.
System Action: The error is logged and returned to the client.
Administrator Action: None.

CORE4011 MM transaction unexpectedly aborted.

Source Files Generating Error Message: core_APIs.c.
Problem Description: The Client API did not receive an error from any lower level routine, but the transaction was marked as being aborted.
System Action: This anomaly is logged and an error is returned to the client.
Administrator Action: None.

CORE4012 Extended transaction list corrupted: %s.

Source Files Generating Error Message: core_ExTrans.c, core_Log.c.
Problem Description: The Client API has searched its tables for a certain transaction entry, but failed to find it. This should never happen.
System Action: The event is logged and the Core Server terminates.
Administrator Action: Restart the Core Server.

CORE4013 Error initializing extended transaction manager.

Source Files Generating Error Message: core_Init.c.
Problem Description: During initialization the Client API called core_ExTransMgrInit and received an error.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE4014 Error aborting extended transactions on connection.

Source Files Generating Error Message: core_ExTrans.c.
Problem Description: While attempting to abort a transaction the Client API received an error.
System Action: The error is logged and the Core Server continues.
Administrator Action: None.

CORE4015 Error encoding variable length attributes: <API name>.

Source Files Generating Error Message: core_APIs.c.
Problem Description: Attributes to be returned from an HPSS Core Server API cannot properly be encoded for transmission to a client program. This is likely an indication of a bug.

System Action: The Core Server continues.
Administrator Action: Contact HPSS Support.

CORE4016 Error decoding variable length attributes: <API name>.

Source Files Generating Error Message: core_APIs.c.
Problem Description: Attributes to be sent to an HPSS Core Server API cannot properly be decoded.
System Action: The Core Server continues attempts to satisfy the API request.
Administrator Action: Examine the nature of the error and correct the underlying problem.

CORE4017 Invalid HPSS File Family Id, Id = %d.

Source Files Generating Error Message: core_APIs.c, bfs_BitfileSetAttrs.c.
Problem Description: Both CreateFile and bfs_BitrileSetAttrsNOpen make a call to hpss_LocateFamily to obtain the Family Id for this file. However, the call to hpss_LocateFamily has returned an error.
System Action: The Core Server continues.
Administrator Action: None.

CORE4018 Error inserting new persistent transaction: %d

Source Files Generating Error Message: core_APIs.c
Problem Description: An error has occurred in the Cursor Manager module which caused the cursor to fail to be stored. The calling operation will fail.
System Action: The Core Server continues.
Administrator Action: None.

CORE4019 Error retrieving persistent transaction, Id=%d

Source Files Generating Error Message: core_APIs.c
Problem Description: An error has occurred in the Cursor Manager module which caused the cursor to fail to be retrieved. The calling operation will fail.
System Action: The Core Server continues.
Administrator Action: None.

CORE4020 Invalid credentials to access persistent transaction: Id=%d, pUID=%d, rUID= %d

Source Files Generating Error Message: core_APIs.c
Problem Description: The request to access a persistent transaction stored in the Cursor Manager module did not contain the same security credentials as the persistent transaction. The request will fail.
System Action: The Core Server continues.
Administrator Action: None.

CORE4021 XML retrieved from %s is too large. HPSS_XML_SIZE must be increased.

Source Files Generating Error Message: core_APIs.c

Problem Description: A request for UDA information resulted in a result size that was larger than HPSS_XML_SIZE. The result has been truncated.
System Action: The Core Server continues.
Administrator Action: In some cases, support may be required if HPSS_XML_SIZE should be increased to accommodate a larger than expected UDA value which must be stored.

CORE4022 **No trashcan hints provided by the client: Options=%d Directory=(%u.%u) Path=%s User=%s** +

Source Files Generating Error Message: core_APIs.c
Problem Description: A delete or rename request has come in without proper trashcan hints. This may be due to a problem in the application or a bug in the HPSS Client API.
System Action: The delete or rename fails and the Core Server continues.
Administrator Action: Attempt to gather HPSS and Client API logging for the operation. Contact HPSS support. If a custom application has been written the way the delete operation is being issued should be scrutinized.

CORE4023 **Invalid trashcan option flags specified: Options=%d** +

Source Files Generating Error Message: core_APIs.c
Problem Description: A delete or rename request has come in with invalid option flags. The option flags are included in the log. This represents an error in the Client API.
System Action: The delete or rename fails and the Core Server continues.
Administrator Action: Attempt to gather HPSS and Client API logging for the operation. Contact HPSS support.

CORE4024 **Creating new trashcan directory: Options=%d User=%d Parent=(%u.%u)** +

Source Files Generating Error Message: core_APIs.c
Problem Description: A delete or rename request has come in with and required creating a new trashcan directory. This is an informational log message and does not indicate an error.
System Action: A new trashcan directory is created.
Administrator Action: None.

CORE4025 **Error locating trashcan directory: Directory=(%u.%u) Path=%s** +

Source Files Generating Error Message: core_APIs.c
Problem Description: The Core Server has failed to locate the trashcan directory based upon incoming directory and path information.

System Action: The delete or rename request will fail and the Core Server continues.
Administrator Action: Contact HPSS support.

CORE4026 **Failed creating trashcan directory: User=%s Parent=(%u.%u) Path=%s** +

Source Files Generating Error Message: core_APIs.c
Problem Description: The Core Server has failed to create a required trashcan directory.
System Action: The delete or rename request will fail and the Core Server continues.
Administrator Action: Contact HPSS support. <<<

Chapter 6. Common Services Library Error Messages (COMM Series)

COMM2000 System call failed <call> with <file>

Source Files Generating Error Message: hpss_ServerUtils.c
Problem Description: A system call failed. The system cannot properly operate without system administrator intervention.
System Action: The server in question will stop.
Administrator Action: Review the error and take corrective action.

COMM2001 No more locks available for <lock file>

Source Files Generating Error Message: hpss_ServerUtils.c
Problem Description: A server is unable to acquire a lock in the lock file. The system cannot properly operate without system administrator intervention.
System Action: The affected server will exit.
Administrator Action:

COMM2002 <Number> server clones for <Descriptive Name>

Source Files Generating Error Message: hpss_ServerUtils.c
Problem Description: Multiple copies of an HPSS server are running. The system cannot properly operate without system administrator intervention.
System Action: The server will exit.
Administrator Action: Shutdown all the copies of the server, then try to start the server.

COMM2003 Call to set <type> login credential for <Server principal> failed: <Reason error text>

Source Files Generating Error Message: hpss_ServerUtils.c
Problem Description: An attempt to authenticate a server principal has failed. The system cannot properly operate without system administrator intervention.
System Action: The server will exit.
Administrator Action: Review the error message and take corrective action.

Chapter 7. Delog Error Messages (DLOG Series)

DLOG0003 Master Message Catalog open failed

Source Files Generating Error Message: delog_main.c
Problem Description: The HPSS master message catalog containing displayable text could not be opened. Default text messages will be output.
System Action: Default messages will be output. The default messages will be in English only.
Administrator Action: Check the NLSPATH environment variable to make sure the HPSS message catalog path is included.

DLOG0123 Purge of login context failed

Source Files Generating Error Message: delog_main.c
Problem Description: The purge of the login context failed during Delog termination.
System Action: None. Delog was exiting when the error occurred.
Administrator Action: None.

DLOG0230 Invalid request message type received

Source Files Generating Error Message: delog_main.c
Problem Description: An invalid message type was detected for a log record. For REQUESTs, a type other than TEXT_REQUEST, IOD_REQUEST, IOR_REQUEST, or PFS_REQUEST was detected.
System Action: The invalid log message will not be delogged.
Administrator Action: None.

DLOG0231 Invalid log record type received

Source Files Generating Error Message: delog_main.c
Problem Description: A record type other than ALARM, EVENT, REQUEST, SECURITY, ACCOUNTING, DEBUG, or TRACE was detected.
System Action: The invalid log record will not be delogged.
Administrator Action: None.

DLOG0250 Call to block signals failed

Source Files Generating Error Message: delog_main.c
Problem Description: The mask of signals to block from the signal handling routine could not be set. This error should not occur.
System Action: None.
Administrator Action: None.

DLOG0251 Suspend of signal handling thread failed

Source Files Generating Error Message: delog_main.c
Problem Description: The signal handling thread could not be suspended. This error should not occur.
System Action: None.
Administrator Action: None.

DLOG0400 Initialization of Logging Services failed

Source Files Generating Error Message: delog_main.c
Problem Description: Either the HPSS message catalog could not be opened, an invalid shared memory key was specified, or there is a resource problem.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Ensure that the HPSS message catalog has been installed in the correct directory, and that an invalid shared memory key was not specified in the CS_SHMKEY_ENV environment variable. If the message catalog and shared memory key are correct, determine if there is a resource problem.

DLOG0401 Invalid argument count specified

Source Files Generating Error Message: delog_main.c
Problem Description: The number of input arguments was less than 2.
System Action: The delog will terminate, without any records being processed.
Administrator Action: At a minimum, specify an input log file name and an output delog file name.

DLOG0534 Invalid log file identifier

Source Files Generating Error Message: delog_main.c
Problem Description: The log file identifier did not indicate logfile01 or logfile02. This internal error should not occur.
System Action: Delog will terminate.
Administrator Action: Restart the delog. If the problem persists, notify support.

DLOG0540 Log file read failed

Source Files Generating Error Message: delog_main.c
Problem Description: A read to a log file record was unsuccessful.
System Action: The delog will terminate. The delog output file will contain records up to the point of the read failure.
Administrator Action: None.

DLOG0602 Log file open failed

Source Files Generating Error Message: delog_main.c
Problem Description: Delog was unable to open the log file which is to be delogged.
System Action: The delog will terminate, without any records being processed.

Administrator Action: Ensure that: the name of the delog output file is a valid pathname, the user has write permission to the file, and that the file system has sufficient space.

DLOG0607 Log file close failed

Source Files Generating Error Message: delog_main.c
Problem Description: Delog was unable to close the file in which the log file is being delogged. If this was the only error associated with the request, then the delog request would have completed successfully.
System Action: None.
Administrator Action: None.

DLOG0800 Usage error: duplicate delog start time

Source Files Generating Error Message: delog_main.c
Problem Description: More than one -s (start time) option was specified in the delog request.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with no more than one -s option.

DLOG0801 Usage error: invalid delog start time

Source Files Generating Error Message: delog_main.c
Problem Description: The time following the -s option was not valid. The time must be in the following format: YY:MM:DD:hh:mm:ss, where YY=year, MM=Month, DD=day, hh=hours, mm=minutes, ss=seconds. The year YY: is optional
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with a valid time.

DLOG0802 Usage error: duplicate delog end time

Source Files Generating Error Message: delog_main.c
Problem Description: More than one -e (end time) option was specified in the delog request.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with no more than one -e option.

DLOG0803 Usage error: duplicate log version

Source Files Generating Error Message: delog_main.c
Problem Description: More than one -v (version) option was specified in the delog request.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with no more than one -v option.

DLOG0804 Usage error: duplicate authenticator

Source Files Generating Error Message: delog_main.c

Problem Description: More than one -k (authenticator) name was specified in the delog request.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with no more than one -k option.

DLOG0805 Usage error: duplicate authentication mechanism

Source Files Generating Error Message: delog_main.c
Problem Description: More than one -m (authentication mechanism) name was specified in the delog request.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with no more than one -m option.

DLOG0806 Usage error: duplicate log principal name

Source Files Generating Error Message: delog_main.c
Problem Description: More than one -p (log principal) name was specified in the delog request.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with no more than one -p option.

DLOG0807 Usage error: invalid delog end time

Source Files Generating Error Message: delog_main.c
Problem Description: The time following the -e option was not valid. The time must be in the following format: YY:MM:DD:hh:mm:ss, where YY=year, MM=Month, DD=day, hh=hours, mm=minutes, ss=seconds. The year YY: is optional
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with a valid time.

DLOG0808 Usage error: invalid delog record type

Source Files Generating Error Message: delog_main.c
Problem Description: The value following the -t option was not one of the following values: alarm, event, request, security, accounting, debug, or trace.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with a valid type.

DLOG0809 Usage error: invalid delog option

Source Files Generating Error Message: delog_main.c
Problem Description: A delog input option other than -s (start time), -e (end time), -d (descriptive name), -t (record type), -k (authenticator), -m (authentication mechanism), -p (log principal), or -u (user) was specified.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with valid options.

DLOG0810 Invalid authentication mechanism

Source Files Generating Error Message: delog_main.c

Problem Description: The authentication mechanism specified by the -m option or from the environment was not valid.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with a valid authentication mechanism.

DLOG0811 Unable to parse authenticator name and type

Source Files Generating Error Message: delog_main.c
Problem Description: The authenticator name and type specified by the -k option or from the environment was not valid.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Resubmit the delog request with a valid authenticator name and type.

DLOG0812 Set login creds failed

Source Files Generating Error Message: delog_main.c
Problem Description: The delog process was unable to login using the authenticator and authentication mechanism specified.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Verify that the Log principal name has been defined, and that the associated password has been defined in the HPSS keytab file (if keytab authentication is used). Also, if the -p option was specified in the delog request, verify the principal name supplied is valid.

DLOG0813 Open of delog output file failed

Source Files Generating Error Message: delog_main.c
Problem Description: Delog was unable to open the file in which the delog results were stored.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Ensure that: the name of the delog output file is a valid pathname, the user has write permission to the parent directory if the file does not already exist, the user has write permission to the file if it already exists, and that the file system has sufficient space.

DLOG0814 Allocation of delog buffer failed

Source Files Generating Error Message: delog_main.c
Problem Description: Delog was unable to allocate memory for either an input or output buffer.
System Action: The delog request will fail.
Administrator Action: There is insufficient memory to perform the delog. Determine why the system is out of memory. Resubmit the delog request when the condition clears.

DLOG0815 Invalid log file header detected

Source Files Generating Error Message: delog_main.c
Problem Description: The log file header was determined to be invalid.
System Action: The delog will terminate, without any records being processed.
Administrator Action: Ensure the input log file name specified is a valid name of a log file. If not, resubmit the delog request with a valid log file name.

DLOG0816 Write to delog output file failed

Source Files Generating Error Message: delog_main.c
Problem Description: A write to a delog output record was unsuccessful.
System Action: The delog will terminate. The delog output file will contain records up to the point of the write failure.
Administrator Action: Ensure that the file system has sufficient space.

DLOG0817 Delog complete - number of output records = %d

Source Files Generating Error Message: delog_main.c
Problem Description: The delog completed and processed **n** records successfully.
System Action: None.
Administrator Action: None, informational only.

DLOG0818 Close of delog output file failed

Source Files Generating Error Message: delog_main.c
Problem Description: Delog was unable to close the file in which the delog results were stored. If this was the only error associated with the request, then the delog request would have completed successfully.
System Action: None.
Administrator Action: None.

DLOG0819 Delog output file name may not be logfile01 or logfile02

Source Files Generating Error Message: delog_main.c
Problem Description: The delog output file name specified was the same as the name of the primary or secondary HPSS log file. To help prevent corruption of the HPSS log files, specification of improper log file names is rejected by the delog process.
System Action: The delog request will fail.
Administrator Action: Resubmit the delog request with a different delog output file name.

DLOG0820 Usage: hpss_delog Logfile Delogfile [options] …

Source Files Generating Error Message: delog_main.c
Problem Description: Fewer than two arguments were provided on the command line.
System Action: The delog request will fail.
Administrator Action: Resubmit the delog request with a valid command line.

DLOG0821 **Usage error: invalid log version**

Source Files Generating Error Message: delog_main.c
Problem Description: The argument to the -v option on the command line could not be converted to a valid number.
System Action: The delog request will fail.
Administrator Action: Resubmit the delog request with a valid argument to the -v option.

LOG0822 **Invalid file header found. Trying byteswap**

Source Files Generating Error Message: delog_main.c
Problem Description: The delog has detected an invalid log record header and will try byteswapping the file in case it was generated on a machine with the opposite byte gender from the current machine.
System Action: If the byteswap operation is successful, the delog request will be completed successfully. Otherwise, the delog request will fail.
Administrator Action: No administrator intervention is required.

Chapter 8. Gatekeeper Error Messages (GKSR Series)

GKSR0001 **>>>> Gatekeeper Initialization has completed! <<<<**

Source Files Generating Error Message: gk_Main.c
Problem Description: None
System Action: None
Administrator Action: None

GKSR0004 **Found duplicate entry (Control No=%s) in the GK cache table in %s.**

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The Gatekeeper is attempting to insert a new entry into its cache and the new entry's identifier (ControlNo) is already in the cache.
System Action: The error is returned and the Gatekeeper continues.
Administrator Action: None

GKSR0005 **The DefaultWaitTime (%d) must be set to a value greater than 0.**

Source Files Generating Error Message: gk_AdminAPIs.c, gk_Main.c
Problem Description: The Gatekeeper either is receiving a request to change the DefaultWaitTime to an unsupported value, or the DefaultWaitTime is bad in the Gatekeeper's specific configuration record.
System Action: If the Gatekeeper is receiving a request to change the DefaultWaitTime to an unsupported value, then it will return an error and continue. If the DefaultWaitTime is bad in the Gatekeeper's specific configuration record, then the Gatekeeper will halt.
Administrator Action: Don't attempt to set or change the DefaultWaitTime in the Gatekeeper's Type-specific Configuration record to a value less than 1. Fix the Gatekeeper's specific configuration record to have a value greater than zero.

GKSR0006 **The HowMany parameter is zero in %s.**

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The HowMany parameter to the gk_Query API is zero which is invalid.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: Check the application.

GKSR0007 **An attempt to get the user credentials failed with error %d.**

Source Files Generating Error Message: gk_ConnectPackage.c
Problem Description: There was a problem getting the user's credentials.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0008 Unable to locate GK Cache entry with ControlNo '%s' that should be present: %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The Gatekeeper attempted to lookup the entry with the specified ControlNo identifier in the cache, but the expected entry was not found.
System Action: The error is returned and the Gatekeeper continues. This error may occur when the Gatekeeper is restarted in the middle of a request (e.g. the file was opened, but not yet closed).
Administrator Action: None

GKSR0009 The DefaultWaitTime defined in the GK's managed object is zero and needs to be modified to a value greater than zero. Instead using '%d' as the DefaultWaitTime.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The Gatekeeper's site policy module is returning zero for the WaitTime on a create, open, or stage requests that it wants retried. This indicates that it wants the Gatekeeper to use the value stored in the managed object. However, the Gatekeeper discovered that the value is zero, so it instead picks a default which is displayed in this error message.
System Action: The Gatekeeper will log an error and continue with its own default wait time value (10 seconds).
Administrator Action: Fix the Gatekeeper's managed object screen to have a value greater than zero.

GKSR0010 An unauthorized user attempted to modify the GK specific config managed object data.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: An unauthorized user tried to modify the Gatekeeper's in-memory specific configuration metadata.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0012 There was no connection data in the ConnectionContext.

Source Files Generating Error Message: gk_ConnectPackage.c
Problem Description: hpss_EnterConnection did not return the expected data.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0013 The Gatekeeper Site Interface (%s) returned error (%d) during initialization: %s

Source Files Generating Error Message: gk_Main.c
Problem Description: The Gatekeeper gk_site_Init interface returned an error during initialization.
System Action: The Gatekeeper halts.

Administrator Action: Check the gatekeeping site policy code.

GKSR0016 Error %d %s from hpss_InitServer during initialization.

Source Files Generating Error Message: gk_Main.c
Problem Description: The specified error occurred when hpss_InitServer was called.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the HPSS security interface. Restart Gatekeeper.

GKSR0017 Error %d from uuid_create in %s.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The specified error occurred when uuid_create was called to create a Gatekeeper Cache entry identifier.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the HPSS UUID interface. Restart Gatekeeper.

GKSR0022 An unauthorized user attempted to read the GK Entry Cache table.

Source Files Generating Error Message: gk_GKAPIs.c
Problem Description: An unauthorized user tried to read the Gatekeeper's cache via the gk_Query API.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0024 CRASH was called from file %s at line number %d.

Source Files Generating Error Message: gk_AdminAPIs.c, gk_AsyncPackage.c, gk_BitVector.c, gk_ConnectPackage.c, gk_EntryCache.c, gk_Initiate.c, gk_Main.c, gk_MiscPackage.c, gk_RTM.c, gk_ReadConfig.c, gk_SSMPackage.c, gk_SetServerState.c, gk_ShutDown.c, gk_Terminate.c, and av_Support.c.
Problem Description: The Gatekeeper has encountered an unrecoverable error and is shutting down.
System Action: The Gatekeeper halts.
Administrator Action: Examine the error message(s) and take corrective action. Restart the Gatekeeper.

GKSR0026 Received an unexpected NULL entry from %s in %s.

Source Files Generating Error Message: gk_Initiate.c and gk_Terminate.c
Problem Description: The Gatekeeper attempted to find an entry in its cache and hit an unexpected error condition due most likely to a coding bug.
System Action: The Gatekeeper halts.
Administrator Action: Inform IBM Support of this problem. Restart the Gatekeeper.

GKSR0027 Processing unknown request type (%d) in %s.

Source Files Generating Error Message: gk_AsyncPackage.c, gk_Initiate.c, and gk_Terminate.c
Problem Description: The Gatekeeper attempted to process an unknown request type. Valid request types are create, open, and stage.
System Action: The Gatekeeper halts.
Administrator Action: Make sure that the Gatekeeper was compiled with the correct include files. Restart the Gatekeeper.

GKSR0033 Bit parameter must be either 0 or 1 but was instead: %d in SetBit.

Source Files Generating Error Message: gk_BitVector.c
Problem Description: SetBit was called to set a bit in a bit vector, however the bit value was not 0 or 1.
System Action: The Gatekeeper halts.
Administrator Action: Restart the Gatekeeper.

GKSR0035 Error %d from pthread_create creating %s.

Source Files Generating Error Message: gk_SSMPackage.c
Problem Description: The attempt to create the specified thread failed when the call to pthread_create failed with an error.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0036 The initiate request with UID=%d RealmId=%d AuthorizedCaller=%d RequestType=%d was called with a nil HostAddr. Contact HPSS support. The GK will continue.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The Gatekeeper received a zero filled HostAddr attribute from the Core Server for the create/ open/stage request. This indicates that HPSS had a problem filling in the host socket address.
System Action: The event is logged and the Gatekeeper continues.
Administrator Action: Ensure that the network is up. Inform IBM Support of this problem.

GKSR0037 The site policy is returning HPSS_EUSER_DENY for UID=%d RealmID=%d RequestType='%s'. This indicates that the gatekeeping site policy is denying a particular user access.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The Gatekeeper received an HPSS_EUSER_DENY error code from the site routine for the create/open/stage request. This indicates that the gatekeeping site policy is denying a particular user access.
System Action: The event is logged as a TRACE record. The error status is returned to the Core Server. The Core Server returns the error status to the Client API where it is mapped into an EACCES error code which is returned to the calling application.

Administrator Action: The gatekeeping site policy code is denying a user access. Verify that this is the desired result.

GKSR0038 The site policy is returning HPSS_ETHRESHOLD_DENY for UID=%d RealmID=%d RequestType='%s'. This indicates that the gatekeeping site policy is denying a particular request due to a threshold limit.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The Gatekeeper received an HPSS_ETHRESHOLD_DENY error code from the site routine for the create/open/stage request. This indicates that the gatekeeping site policy is denying a particular request due to a threshold limit.
System Action: The event is logged as a TRACE record. The error status is returned to the Core Server. The Core Server returns the error status to the Client API where it is mapped into an EBUSY error code which is returned to the calling application.
Administrator Action: The gatekeeping site policy code is denying access due to a threshold limit. Take the necessary steps to decrease the load.

GKSR0039 Invalid request code (%d) setting up an RTM request entry in %s.

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper attempted to create an RTM request entry with an invalid request code.
System Action: The Gatekeeper logs an error and continues.
Administrator Action: Make sure that the Gatekeeper was compiled with the correct include files. Restart the Gatekeeper if necessary.

GKSR0040 Error %d from %s removing RTM request entry (request code '%d') in %s.

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper attempted to destroy an RTM request entry and got an error from the RTM library.
System Action: The Gatekeeper logs an error and continues.
Administrator Action: Make sure that the Gatekeeper and RTM library were compiled with the correct include files. Restart the Gatekeeper if necessary.

GKSR0041 Bad INDEX value (%d) was supplied in %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: An attempt was made to set an attribute field, however there is no attribute field that corresponds to one of the bits found in InEntryBits.
System Action: The error is logged and the Gatekeeper continues.
Administrator Action: Check the application.

GKSR0042 The supplied Descriptive Name is too long in InitializeServer

Source Files Generating Error Message: gk_Main.c
Problem Description: During initialization the Gatekeeper’s descriptive name was discovered to be longer than (HPSS_MAX_DESC_NAME - 1).
System Action: The Gatekeeper shuts down.

Administrator Action: Make sure the Gatekeeper's descriptive name in the generic configuration file is correct and less than (HPSS_MAX_DESC_NAME - 1) characters in length.

GKSR0043 Error %d from %s updating the RTM request entry wait reason to '%d' in %s.

Source Files Generating Error Message: gk_AsyncPackage.c, gk_GKAPIs.c, gk_Initiate.c, gk_Main.c, gk_MiscPackage.c, gk_RTM.c, gk_ReadSitePolicy.c, gk_SSMPackage.c, gk_ShutDown.c, and gk_Terminate.c
Problem Description: The Gatekeeper attempted to update an RTM request entry's wait reason and got an error.
System Action: The Gatekeeper logs an error and continues.
Administrator Action: Make sure that the Gatekeeper and RTM library were compiled with the correct include files. Restart the Gatekeeper if necessary.

GKSR0044 Invalid wait reason (%d) setting up an RTM request entry in %s.

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper attempted to update an RTM request entry's wait reason and the wait reason was invalid.
System Action: The Gatekeeper logs an error and continues.
Administrator Action: Make sure that the Gatekeeper and RTM library were compiled with the correct include files. Restart the Gatekeeper if necessary.

GKSR0045 Got an impossible NotificationType (%d) in NotifySSM.

Source Files Generating Error Message: gk_SSMPackage.c
Problem Description: A consistency check has failed. There are a limited number of Notification Types and this is one that the Gatekeeper does not recognize.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure that the Gatekeeper was compiled using the correct include files. Restart the Gatekeeper.

GKSR0046 Error %d from %s deleting RTM wait entry (wait reason '%d') in %s.

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper attempted to delete a wait entry from an RTM request entry and got an error from the RTM library.
System Action: The Gatekeeper logs an error and continues.
Administrator Action: Make sure that the Gatekeeper and RTM library were compiled with the correct include files. Restart the Gatekeeper if necessary.

GKSR0047 Error %d from %s inserting RTM wait entry (wait reason '%d') in %s.

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper attempted to insert a wait entry from an RTM request entry and got an error from the RTM library.
System Action: The Gatekeeper logs an error and continues.

Administrator Action: Make sure that the Gatekeeper and RTM library were compiled with the correct include files. Restart the Gatekeeper if necessary.

GKSR0048 Error %d attempting to contact SSM in %s.

Source Files Generating Error Message: gk_SSMPackage.c
Problem Description: The Gatekeeper attempted to send a message to the SSM and it failed. The notification thread will sleep until the connection to the SSM is restored.
System Action: The Gatekeeper logs a debug error and continues.
Administrator Action: None

GKSR0049 Entering procedure %s request from UID %d.

Source Files Generating Error Message: gk_AdminAPIs.c and gk_GKAPIs.c
Problem Description: This informative REQUEST message announces the entry into one of the Gatekeeper's API functions.
System Action: The event is logged and the Gatekeeper continues.
Administrator Action: None.

GKSR0050 Attempting to terminate a create request via gk_Close.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate a create request through the close mechanism. Create requests should be terminated via the gk_CreateComplete API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0051 Attempting to terminate a create request via gk_StageComplete.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate a create request through the stage mechanism. Create requests should be terminated via the gk_CreateComplete API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0052 Attempting to terminate an open request via gk_CreateComplete.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate an open request through the create mechanism. Open requests should be terminated via the gk_Close API.

System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0053 Attempting to terminate an open request via gk_StageComplete.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate an open request through the stage mechanism. Open requests should be terminated via the gk_Close API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0054 Attempting to terminate a stage request via gk_Close.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate a stage request through the close mechanism. Stage requests should be terminated via the gk_StageComplete API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0055 Attempting to terminate a stage request via gk_CreateComplete.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate a stage request through the create mechanism. Stage requests should be terminated via the gk_StageComplete API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0056 Administrative request to lock state is not supported in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: This is a message logging the fact that the Gatekeeper has been asked to change its administrative state to lock which isn’t supported by the Gatekeeper.
System Action: The request is logged and the Gatekeeper continues.

Administrator Action: This action is not supported.

GKSR0057 Administrative request to reinit is not supported in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: This is a message logging the fact that the Gatekeeper has been asked to reinitialize which isn't supported by the Gatekeeper.
System Action: The request is logged and the Gatekeeper continues.
Administrator Action: This action is not supported.

GKSR0058 Error %d while initializing mutex %s in %s

Source Files Generating Error Message: gk_Main.c
Problem Description: The Gatekeeper attempted to initialize a mutex with a call to pthread_mutex_init but the call failed.
System Action: The Gatekeeper halts.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0059 Attempting to terminate a create request via mismatch API request type '%d'.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate a create request through an unknown type of mechanism. Create requests should be terminated via the gk_CreateComplete API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0060 Attempting to terminate an open request via mismatch API request type '%d'.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate an open request through an unknown type of mechanism. Open requests should be terminated via the gk_Close API.
System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0061 Attempting to terminate a stage request via mismatch API request type '%d'.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Core Server is attempting to terminate a stage request through an unknown type of mechanism. Stage requests should be terminated via the gk_StageComplete API.

System Action: The event is logged and the Gatekeeper returns an error and continues.
Administrator Action: Make sure that the Gatekeeper and Core Server were compiled with the correct include files. Restart the Gatekeeper or Core Server if necessary.

GKSR0063 Error %d from %s initializing the account validation interface in %s.

Source Files Generating Error Message: gk_Main.c
Problem Description: An error was returned by av_Initialize during initialization.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the account validation service and the HPSS security interface. Restart Gatekeeper.

GKSR0064 An illegal switch value (%d) was used in %s. Bits: 0x%08x%08x.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: The Gatekeeper was asked to change a non-existent field in its specific configuration record. These fields are selected using bit vectors. If this request was made from the SSM there may be a problem with the SSM.
System Action: The error is logged and the Gatekeeper continues.
Administrator Action: If the request is coming from the SSM and the error persists, restart the SSM.

GKSR0065 Error %d was returned by pthread_cond_init for %s in %s.

Source Files Generating Error Message: gk_Main.c
Problem Description: During initialization the Gatekeeper was attempting to initialize the condition variable, but received the indicated error from pthread_cond_init.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0066 Error %d was returned by pthread_cond_wait for %s in %s.

Source Files Generating Error Message: gk_AsyncPackage.c, gk_Terminate.c
Problem Description: The Gatekeeper was attempting to wait on the condition variable, but received the indicated error from pthread_cond_wait.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0067 Error %d returned by pthread_create for %s in %s.

Source Files Generating Error Message: gk_AdminAPIs.c, gk_Main.c
Problem Description: The Gatekeeper attempted to create the specified thread but received an error.
System Action: The Gatekeeper shuts down.

Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0068 Error %d from sigwait in SignalThread.

Source Files Generating Error Message: gk_Main.c
Problem Description: The Gatekeeper called sigwait in its signal handling thread and received an error.
System Action: The error is logged and the Gatekeeper continues.
Administrator Action: Ensure that the operating system is functioning properly.

GKSR0069 Received a %s signal in SignalThread.

Source Files Generating Error Message: gk_Main.c
Problem Description: The Gatekeeper signal handling thread has caught a signal that it was registered for. This message tells which type of signal was caught.
System Action: Depends on the type of signal that was caught. Most signals cause the Gatekeeper to shut down.
Administrator Action: Restart the Gatekeeper if appropriate.

GKSR0070 GKTRACE: %s.

Source Files Generating Error Message: gk_LogPackage.c
Problem Description: This is a special message used by the Gatekeeper while debugging or doing timing tests. One of the fields of this message is always the microsecond time.
System Action: None.
Administrator Action: None.

GKSR0072 Error %d was returned from %s in %s.

Source Files Generating Error Message: gk_AdminAPIs.c, gk_AsyncPackage.c, gk_ConnectPackage.c, gk_GKAPIs.c, gk_Initiate.c, gk_Main.c, gk_MiscPackage.c, gk_ReadSitePolicy.c, gk_SSMPackage.c, gk_ShutDown.c, and gk_Terminate.c
Problem Description: This is a very general error message that has been used in a multitude of places in the Gatekeeper generally to give additional DEBUG information to a previous error log.
System Action: The error is logged and depending on the error, the Gatekeeper either continues or halts.
Administrator Action: None.

GKSR0073 Reset managed object field %s to zero since it was about to go negative.

Source Files Generating Error Message: gk_StatPackage.c
Problem Description: If any of the fields in the Gatekeeper's administrative statistic counts are about to overflow, the Gatekeeper resets the particular count to zero and logs this message.
System Action: The Gatekeeper logs the event and continues.
Administrator Action: None.

GKSR0074 **Error %d from uuid_compare while searching the cache to verify the new entry being added doesn't already exist in %s.**

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_compare was called to compare two uuids.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the HPSS UUID interface. Restart Gatekeeper.

GKSR0075 **ShutDown: shutting down the Site Interface.**

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: This is an informative message announcing that the Gatekeeper is about to call gk_site_Shutdown to shut down the gatekeeping Site Interface.
System Action: The event is logged and the Gatekeeper will continue shutting down.
Administrator Action: Restart the Gatekeeper if appropriate.

GKSR0077 **Error %d from %s while shutting down the GK Site Interface.**

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: The Gatekeeper received an error shutting down the gatekeeping Site Interface (gk_site_Shutdown).
System Action: The event is logged and the Gatekeeper will continue shutting down.
Administrator Action: Check the gatekeeping Site Interface.

GKSR0078 **Error %d from %s while shutting down the Account Validation Service.**

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: The Gatekeeper received an error shutting down the Account Validation Service (av_Shutdown).
System Action: The event is logged and the Gatekeeper will continue shutting down.
Administrator Action: Check the Account Validation Service.

GKSR0080 **Error %d from uuid_equal while finding an entry to delete from the cache in %s.**

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_equal was called to compare two uuids.
System Action: The Gatekeeper halts.
Administrator Action: Check status of HPSS UUID interface. Restart Gatekeeper.

GKSR0081 **Error %d from uuid_equal while searching the cache to find an entry in %s.**

Source Files Generating Error Message: gk_EntryCache.c, gk_Terminate.c
Problem Description: The specified error occurred when uuid_equal was called to compare two uuids.
System Action: The Gatekeeper halts.

Administrator Action: Check status of HPSS UUID interface. Restart Gatekeeper.

GKSR0082 Error %d from uuid_is_nil checking if the query offset is zero in %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_is_nil was called to see if the gk_Query API *Offset* parameter was a nil uuid.
System Action: The Gatekeeper halts.
Administrator Action: Check status of HPSS UUID interface. Restart Gatekeeper.

GKSR0083 Error %d from uuid_compare while searching the cache to find where to start the query in %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_compare was called to compare two uuids.
System Action: The Gatekeeper halts
Administrator Action: Check status of HPSS UUID interface. Restart Gatekeeper.

GKSR0084 Exiting procedure %s.

Source Files Generating Error Message: gk_AdminAPIs.c and gk_GKAPIs.c
Problem Description: The Gatekeeper is logging the exit from one of its APIs.
System Action: The Gatekeeper continues.
Administrator Action: None.

GKSR0085 Bad switch value (%d) supplied as a parameter to SetServerState.

Source Files Generating Error Message: gk_SetServerState.c
Problem Description: The Gatekeeper has supplied a bad switch value to SetServerState. This should be impossible.
System Action: The Gatekeeper shuts down.
Administrator Action: Restart the Gatekeeper.

GKSR0086 The GK_READ_SITE_POLICY bit (%d) is ON but the corresponding ReadSitePolicy Data is not set to TRUE. Returning error %d in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: The caller (generally SSM) is attempting to set the bit value to re-read the site policy, however the corresponding data value is not valid.
System Action: The Gatekeeper continues.
Administrator Action: The caller (SSM) is calling the gk_admin_GKSetAttrs API incorrectly.

GKSR0088 Invalid SSM Connection State, GK_SSMConnectState = %d for %s in %s.

Source Files Generating Error Message: gk_SSMPackage.c
Problem Description: The Gatekeeper detected an invalid SSM connection state.
System Action: The Gatekeeper shuts down.
Administrator Action: Restart the Gatekeeper. Examine the Gatekeeper core file.

GKSR0089 Error %d from uuid_equal while comparing ConnectionIds in %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_equal was called to compare two uuids.
System Action: The Gatekeeper halts.
Administrator Action: Check status of HPSS UUID interface. Restart Gatekeeper.

GKSR0090 Received Administrative request to set admin state to %s in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: This is a message logging the fact that the Gatekeeper has been asked to change its administrative state.
System Action: The action will depend on the administrative state that was set.
Administrator Action: Administrator action will depend on the administrative state that was set.

GKSR0091 Error %d from uuid_equal while comparing ControlNos in %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_equal was called to compare two uuids.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the HPSS UUID interface. Restart Gatekeeper.

GKSR0092 Reset the CacheChainLength of the cache table entry '%d' to zero since it was about to go negative.

Source Files Generating Error Message: gk_EntryCache.c and gk_Terminate.c
Problem Description: The Gatekeeper maintains a CacheChainLength field for each entry of the cache for debug and performance analysis. If this field is about to go negative, then the Gatekeeper will reset the particular count to zero and log this message.
System Action: The Gatekeeper logs the event and continues.
Administrator Action: None.

GKSR0093 The GK is being asked to retry the request (%s) which is NOT in the retry state. The state is '%d' in %s. If the state is '%d' then the request has already been allowed through.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The Gatekeeper is being asked to retry a request which is not in the retry state. If the state is GK_GO then the request has already be permitted and is waiting to be completed; this could happen if the GK was restarted before the request was completed.
System Action: The Gatekeeper logs the event and continues.
Administrator Action: None.

GKSR0094 Error %d from uuid_equal while finding an item to delete from the asynchronous call queue in %s.

Source Files Generating Error Message: gk_AsyncPackage.c
Problem Description: The specified error occurred when uuid_equal was called to compare two uuids.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the HPSS UUID interface. Restart Gatekeeper.

GKSR0095 The site policy is returning Error=%d for UID=%d RealmID=%d RequestType='%s'.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The Gatekeeper received an error code that is not HPSS_RETRY, HPSS_EUSER_DENY, nor HPSS_ETHRESHOLD_DENY from the site routine for the create/open/stage request. This indicates that the gatekeeping site policy is having an internal problem.
System Action: The event is logged as a TRACE record. The error status is returned to the Core Server. The Core Server will issue a WARNING alarm and then retry several times before returning an error to the Client API. The Client API will map the error into an EIO error code which is returned to the calling application.
Administrator Action: The gatekeeping site policy code is having an internal problem.

GKSR0096 Invalid Connection Type (%d) passed to %s.

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Gatekeeper has supplied a bad TermConnectType switch value to TerminateConnection. This should be impossible.
System Action: The Gatekeeper shuts down.
Administrator Action: Restart the Gatekeeper.

GKSR0097 Error %d from uuid_equal while comparing Client ConnectionIds in %s.

Source Files Generating Error Message: gk_EntryCache.c
Problem Description: The specified error occurred when uuid_equal was called to compare two uuids.
System Action: The Gatekeeper halts.
Administrator Action: Check status of the HPSS UUID interface. Restart Gatekeeper.

GKSR0098 The input ControlNo parameter is nil (zero filled) in %s for RequestType '%d'.

Source Files Generating Error Message: gk_Initiate.c
Problem Description: The input parameter (InControlNoP) to the Gatekeeper was a nil uuid for the specified type of request (create, open, stage).
System Action: The Gatekeeper returns an error and continues.
Administrator Action: Check the Core Server.

GKSR0099 **ControlNo '%s' could not be found. Perhaps the GK was bounced while the Core Server was terminating this request of type %d.**

Source Files Generating Error Message: gk_Terminate.c
Problem Description: The Gatekeeper is being asked to terminate a request which is not in its cache. This could happen if the GK was restarted before the request was completed.
System Action: The Gatekeeper logs the event and continues.
Administrator Action: None.

GKSR0110 **Error %d while locking mutex %s in %s.**

Source Files Generating Error Message: gk_AsyncPackage.c, gk_EntryCache.c, gk_MiscPackage.c, gk_ShutDown.c, and gk_Terminate.c
Problem Description: The Gatekeeper attempted to lock a mutex and received an error from pthread_mutex_lock.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0111 **Error %d while unlocking mutex %s in %s.**

Source Files Generating Error Message: gk_AsyncPackage.c, gk_EntryCache.c, gk_MiscPackage.c, gk_ShutDown.c, and gk_Terminate.c
Problem Description: The Gatekeeper has attempted to unlock a mutex and received an error from pthread_mutex_unlock.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0112 **Error %d from pthread_cond_signal %s in %s.**

Source Files Generating Error Message: gk_AsyncPackage.c and gk_Terminate.c
Problem Description: The Gatekeeper attempted to issue a condition signal and received an error from pthread_cond_signal.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0115 **The call to %s failed while trying to lock or unlock a mutex in %s.**

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper receive a mutex error from a call to a real time monitoring library routine.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the HPSS thread interface is functioning properly and then restart the Gatekeeper.

GKSR0116 **The call to %s failed while trying to get space in %s.**

Source Files Generating Error Message: gk_RTM.c
Problem Description: The Gatekeeper received an HPSS_ENOMEM error from a call to a real time monitoring library routine.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure the real time monitoring service is functioning properly and then restart the Gatekeeper.

GKSR0117 An unauthorized user tried to use the GK server %s interface.

Source Files Generating Error Message: gk_GKAPIs.c
Problem Description: An unauthorized user tried to use one of the Gatekeeper's gatekeeping APIs.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0118 An unauthorized user tried to modify the GK server state data in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: An unauthorized user tried to modify the Gatekeeper's state.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0119 The call to malloc failed while trying to get space for %s in %s.

Source Files Generating Error Message: gk_AsyncPackage.c, gk_ConnectPackage.c, gk_EntryCache.c, and gk_RTM.c.
Problem Description: The Gatekeeper received an error from a call to malloc memory.
System Action: The Gatekeeper shuts down.
Administrator Action: Ensure that the operating system is functioning properly and then restart the Gatekeeper.

GKSR0121 An unauthorized user tried to read the GK server state data in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: An unauthorized user tried to read the Gatekeeper's state.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0122 An unauthorized user tried to read the GK managed object data in %s.

Source Files Generating Error Message: gk_AdminAPIs.c
Problem Description: An unauthorized user tried to read the Gatekeeper's managed object.
System Action: The Gatekeeper returns an error and continues.
Administrator Action: None

GKSR0123 Error %d from mm_CreateAutoTransHandle getting global database (%s) handle in ReadConfig.

Source Files Generating Error Message: gk_ReadConfig.c
Problem Description: The Gatekeeper attempted to get a transaction handle for the global database and received an error.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and restart the Gatekeeper.

GKSR0124 MMLIB error reading global database handle - %s

Source Files Generating Error Message: gk_ReadConfig.c
Problem Description: The Gatekeeper attempted to get a transaction handle for the global database and received an error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and then restart the Gatekeeper.

GKSR0125 MMLIB error reading global config record - %s

Source Files Generating Error Message: gk_ReadConfig.c
Problem Description: The Gatekeeper attempted to read the global config record and received an error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and then restart the Gatekeeper.

GKSR0126 MMLIB error reading generic config record - %s

Source Files Generating Error Message: gk_ReadConfig.c
Problem Description: The Gatekeeper attempted to read the generic config record and received an error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and then restart the Gatekeeper.

GKSR0127 MMLIB error reading specific config record - %s

Source Files Generating Error Message: gk_ReadConfig.c
Problem Description: The Gatekeeper attempted to read the specific config record and received an error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and then restart the Gatekeeper.

GKSR0128 MMLIB error selecting SSM server type config - %s

Source Files Generating Error Message: gk_ReadConfig.c

Problem Description: The Gatekeeper attempted to select the SSM server type config and received an error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and then restart the Gatekeeper.

GKSR0129 MMLIB error reading SSM generic config records - %s

Source Files Generating Error Message: gk_ReadConfig.c
Problem Description: The Gatekeeper attempted to read SSM server generic config records and received an error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper halts.
Administrator Action: Ensure that DB2 is functioning properly and then restart the Gatekeeper.

GKSR0136 Error %d from %s shutting down the Real Time Monitoring service in %s.

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: While trying to shut down, the Gatekeeper got an error from rtm_Shutdown.
System Action: The Gatekeeper continues to shut down.
Administrator Action: None

GKSR0138 ShutDown: shutting down the Real Time Monitoring service.

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: The Gatekeeper is shutting down the Real Time Monitoring service and this is an informative message.
System Action: The Gatekeeper will continue to shut down.
Administrator Action: None.

GKSR0139 ShutDown: Unregistering %s service.

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: The Gatekeeper is shutting down the specified service and this is an informative message.
System Action: The Gatekeeper will continue to shut down.
Administrator Action: None.

GKSR0140 ShutDown: shutting down the Account Validation service.

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: The Gatekeeper is shutting down the Account Validation service and this is an informative message.
System Action: The Gatekeeper will continue to shut down.
Administrator Action: None.

GKSR0141 MM transaction failed, error = %d.

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: A Gatekeeper transaction failed; tranLogError was called to report the error.
System Action: The Gatekeeper returns control to the caller of tranLogError.
Administrator Action: Check the status of the account validation service.

GKSR0142 MM transaction error - %s.

Source Files Generating Error Message: gk_ShutDown.c
Problem Description: A Gatekeeper transaction failed; tranLogError was called to report the error. The error message includes text returned by mm_error_inq_text.
System Action: The Gatekeeper returns control to the caller of tranLogError.
Administrator Action: Check the status of the account validation service.

Chapter 9. HPSS Security (HSEC Series)

sec_audit0001 **SUBJECT: Peer user: <login name> peer uuid: <uuid> peer host: <host address> peer security label: <#>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security log audit message. Gives peer and end user information.
System Action: Normal processing continues.
Administrator Action: Review HPSS log to determine type of security audit message.

sec_audit0002 **End user: <login name> end userid: <uuid> end user host: <host address>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security log audit message. Gives peer and end user information.
System Action: Normal processing continues.
Administrator Action: Review HPSS log to determine type of security audit message.

sec_audit0003 **EVENT: AUTH**

Source Files Generating Error Message: sec_audit.c
Problem Description: Authentication security log audit message. The attached SUBJECT message gives information on peer user and host. The message error code indicates if the authentication is successful (0) or not. A non-zero error
System Action: Normal processing continues.
Administrator Action: If the error code is non-zero, the security administrator should determine the cause of the penetration attempt and take appropriate actions.

sec_audit0005 **EVENT: CHMOD OBJECT: Version: <#> File: <file name> Handle: <name server object handle> File mode: <mode> File uid: <uid> File gid: <gid>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit chmod log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the chmod operation. The CHMOD OBJECT message contains attributes of the file.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0006 **EVENT: CHOWN OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid : <uid> File gid: <gid>**

Source Files Generating Error Message: sec_audit.c

Problem Description: Security audit chown log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the chown operation. The CHOWN OBJECT message contains file name, mode, and security label attributes of the file. The file uid and gid values are the requested chown uid and gid parameters.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0007 **EVENT: CREATE OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid : <user id> File gid: <group id>**

Source Files Generating Error Message:
Problem Description: Security audit create log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the create operation.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0008 **EVENT: LINK OBJECT: Version: <#> From: <file name> Handle: <name server handle> To: <file name> Handle: <name server handle>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit link log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the link operation. The LINK OBJECT message contains the file names for the existing file to be created as well as the security label of the existing file.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0009 **EVENT: MKDIR OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <file mode> File uid: <uid> File gid: <gid>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit mkdir log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the mkdir operation. The directory name and attributes are included in the MKDIR OBJECT message.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0010 **EVENT: OPEN OBJECT: Version: <#> BitfileId: <bitfile id> Path <path> Fset <fset> Flags: <open flags> Access time: <time> Modify time: <time>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit open log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the open operation. The OPEN OBJECT message includes the Name Server handle, the bitfile id, open flags, and Bitfile Server attributes.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0011 **EVENT: OPENDIR OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid: <id> File gid: <id>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit open directory log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the opendir operation. The OPENDIR OBJECT message includes the requested directory name to open and the directory attributes.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0012 **EVENT: RENAME OBJECT: Version: <#> From: <file name> Handle: <name server handle> To: <file name> Handle: <name server handle>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit rename log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the rename operation. The RENAME OBJECT message includes the old and new file names and rename request parameters.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0013 **EVENT: RMDIR OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid : <id> File gid: <id>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit rmdir log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the rmdir operation. The RMDIR OBJECT message includes the pathname in the rmdir request as well as the directory attributes.
System Action: Normal processing continues.

Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0014 **EVENT: UNLINK OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid: <id> File gid: <id>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit unlink log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the unlink operation. The UNLINK OBJECT message includes the file name in the unlink request as well as the file attributes.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0015 **EVENT: UTIME OBJECT: Version: <#> Bitfile: <file name> BitfileId: <bitfile id> Path <path> Fset <fset> Flags : <0> Access time: <time> Modify time: <time>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit utime log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the utime operation. The UTIME OBJECT message includes the bitfile identifier, access time, and modification time parameters included in the utime request.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0016 **EVENT: ACL_SET OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid: <id> File gid: <id> File security label: <#> oper: <%s>**

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit set acl log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the acl set operation. THE ACL_SEC OBJECT message includes the file name, attributes, and the ACL list being set.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0019 **EVENT: CHDIR OBJECT: Version: <#> File: <file name> Handle: <name server handle> File mode: <mode> File uid : <id> File gid: <id>**

Source Files Generating Error Message: sec_audit.c

Problem Description: Security audit chdir log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the chdir operation. The CHDIR OBJECT message includes the file name and attributes.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0020 EVENT: CHBFID OBJECT: Version: <#> File: <file name> Handle: <name server handle> BitfileId: <bitfile id>

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit change bitfile identifier operation log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the change bitfile id operation. The CHBFID OBJECT message includes the file name and bitfile identifier passed in the change bitfile id operation.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0021 EVENT: BFSETATTRS OBJECT: Version: <#> BitfileId: <bitfile id> Path <path> Fset <fset> Flags: <open flags> Access time: <time> Modify time: <time>

Source Files Generating Error Message: sec_audit.c
Problem Description: Security audit set bitfile attributes log message. The attached SUBJECT message gives information on the peer user, host, and end user requesting the set bitfile attributes operation. The BFSSETATTRS OBJECT message includes the Name Server handle and bitfile identifier for the bitfile being changed.
System Action: Normal processing continues.
Administrator Action: Security administrator should monitor the log for security audit messages with non-zero error codes and take actions based on site security policy.

sec_audit0025 HPSS security library not initialized

Source Files Generating Error Message: sec_audit.c
Problem Description: Program has called an HPSS security function without first initializing the security library.
System Action: Function call is immediately returned with sec_audit_ENOTINIT error.
Administrator Action: Contact support services.

sec_audit0026 HPSS security authentication error. Client protection level less than server minimum

Source Files Generating Error Message: sec_audit.c
Problem Description: Client application protection level is less than that required by the server.

System Action: Function call is returned with sec_audit_EAUTH_LEVEL error.
Administrator Action: Correct client ProtectionLevel configuration value to be equal to or greater than that of the server.

sec_audit0027 HPSS security authorization error. Client authorization service less than server minimum

Source Files Generating Error Message: sec_audit.c
Problem Description: Client application authorization service is lower than that of the server.
System Action: Function call is returned with sec_audit_EAUTHZ error.
Administrator Action: Correct client AuthorizationService configuration value to be the same as that of the server.

sec_audit0028 Invalid authentication service specified in server configuration table

Source Files Generating Error Message: sec_audit.c
Problem Description: The authorization service specified in the server configuration is not valid.
System Action: Security library initialization is aborted and sec_audit_EAUTH_SERVICE is returned.
Administrator Action: Correct server Authorization Service configuration value.

sec_audit0029 Invalid protection level specified in server configuration table

Source Files Generating Error Message: sec_audit.c
Problem Description: The protection level specified in the server configuration is not valid.
System Action: Security library initialization is aborted and sec_audit_EAUTH_LEVEL is returned.
Administrator Action: Correct server ProtectionLevel configuration value.

sec_audit0031 Invalid authentication service specified in server configuration table

Source Files Generating Error Message: sec_audit.c
Problem Description: The server tried to use an invalid security mechanism.
System Action: The security library returns the error to the caller.
Administrator Action: Review the errors returned by the function indicated in the log message and take appropriate action.

sec_audit0033 User: <user name> default account index = <#>

Source Files Generating Error Message: sec_audit.c
Problem Description: Trace message indicating the account index that will be used as default for the specified user.
System Action: Normal processing continues.
Administrator Action: No action required.

sec_audit0034 End user: <name> (RealmName: <realm name>) end userid: <id> end user host: <host address>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message gives details about the end user. It is included in a security audit log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0035 user_obj:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list user entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0036 user:<user name>:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list user entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0037 group_obj:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list group entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0038 group:<group name>:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list group entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0039 other_obj: <permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list other entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0040 account:<id>:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list account entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0041 location:<id>:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list location entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0042 deleted:<id>:<permissions>

Source Files Generating Error Message: sec_audit.c
Problem Description: This message details an access control list deleted entry. It is included in a security audit setacl log message.
System Action: Normal processing continues.
Administrator Action: Take action based on audit event.

sec_audit0043 Unknown ACL type

Source Files Generating Error Message: sec_audit.c
Problem Description: An unknown ACL entry type was encountered while formatting a security audit setacl record.
System Action: This entry is ignored and processing continues.
Administrator Action: Contact software support.

sec_audit0045 foreign_user <name>:<perms>

Source Files Generating Error Message: sec_audit.c
Problem Description: A foreign user was encountered while formatting a security audit setacl record.
System Action: This entry is ignored and processing continues.
Administrator Action: Take action based on audit event.

sec_audit0046 foreign_group <name>:<perms>

Source Files Generating Error Message: sec_audit.c
Problem Description: A foreign group was encountered while formatting a security audit setacl record.
System Action: This entry is ignored and processing continues.
Administrator Action: Take action based on audit event.

sec_audit0047 mask_obj <perms>

Source Files Generating Error Message: sec_audit.c
Problem Description: A mask object was encountered while formatting a security audit setacl record.
System Action: This entry is ignored and processing continues.
Administrator Action: Take action based on audit event.

sec_audit0047 any_other <perms>

Source Files Generating Error Message: sec_audit.c
Problem Description: Any other object was encountered while formatting a security audit setacl record.
System Action: This entry is ignored and processing continues.
Administrator Action: Take action based on audit event.

Chapter 10. Location Client (LCLI Series)

LCLI0109 **Out of memory (object: <info>)**

Source Files Generating Error Message: ls_ClientLib.c
Problem Description: A memory block could not be allocated with malloc().
System Action: An error will be returned to the client.
Administrator Action: Fix system memory shortage problem.

LCLI0115 **Failed to initialize a pthread cond var (<info>)**

Source Files Generating Error Message: ls_ClientLib.c, ls_Common.c
Problem Description: Failed to initialize a condition variable. This error should never occur.
System Action: An error will be returned to the client.
Administrator Action: Contact HPSS support.

LCLI0117 **Failed to destroy a pthread cond var (<info>)**

Source Files Generating Error Message: ls_ClientLib.c, ls_Common.c
Problem Description: Failed to destroy a condition variable. This error should never occur.
System Action: An error will be returned to the client.
Administrator Action: Contact HPSS support.

LCLI0139 **Failed to create mutex attributes (<info>)**

Source Files Generating Error Message: ls_ClientLib.c
Problem Description: Failed to create certain attributes needed for a mutex. This error should never occur.
System Action: An error will be returned to the client.
Administrator Action: Contact HPSS support.

LCLI0901 **Invalid rpc protection level (<info>)**

Source Files Generating Error Message: ls_ClientLib.c
Problem Description: Client contacting location server has an invalid level of protection for RPC calls. Indicates a problem with the rpc protection level selected for the client trying to communicate with the Location Server.
System Action: An error will be returned to the client.
Administrator Action: Check and/or change the rpc protection level associated with the client.

LCLI0902 **Invalid authentication mechanism (<info>)**

Source Files Generating Error Message: ls_ClientLib.c

Problem Description: Client contacting location server is using an invalid or unknown authentication mechanism.
System Action: An error will be returned to the client.
Administrator Action: Ensure the client's authentication mechanism is configured as a valid location server authentication mechanism.

LCLI0903 Invalid site id returned from LS (<info>)

Source Files Generating Error Message: ls_ClientLib.c
Problem Description: Either a problem with the value of metadata (local site id) or a problem with the location server code returning an incorrect value (memory corruption). This error should never occur.
System Action: An error will be returned to the client.
Administrator Action: Contact HPSS support.

Chapter 11. Logging Services Messages (LOG_, LOGC, LOGD Series)

LOG_0001 **Logging Services shared memory could not be located**

LOGC0001 **Logging Services shared memory could not be located**

Source Files Generating Error Message: cs_LogInit.c, cs_Msg.c, logc_main.c
Problem Description: Logging Services could not obtain the ID for its shared memory region.
System Action: Messages may be logged to syslog, stdout, and/or a file, depending on the value of $HPSSLOG. Since this condition usually indicates the Log Client is not running, it normally means that log messages are not getting to the central or local log files or to SSM.
Administrator Action: The Log Client is probably not executing. Start the Log Client on the node from which the message is being received. If the message is being generated when trying to start the Log Client, the system call shmget() is failing. Look up the value of the error code in the log message as an errno value to determine the cause of the system call failure and address that.+

LOG_0002 **Application Message Catalog open failed**

Source Files Generating Error Message: cs_LogInit.c
Problem Description: An application specific message catalog containing displayable text could not be opened. Default text messages will be output.
System Action: Default messages (English only) will be output.
Administrator Action: Check the NLSPATH environment variable to make sure the HPSS message catalog path (normally $HPSS_ROOT/msg/En_US) is included.

LOG_0003 **Master Message Catalog open failed**

Source Files Generating Error Message: cs_LogInit.c
Problem Description: The HPSS master message catalog containing displayable text could not be opened. Default text messages will be output.
System Action: Default messages (English only) will be output.
Administrator Action: Check the NLSPATH environment variable to make sure the HPSS message catalog path (normally $HPSS_ROOT/msg/En_US) is included. Also check environment variable HPSS_MASTER_CAT_NAME to ensure it points to a file that exists.

LOG_0004 **Attach to Logging Services shared memory failed**

LOGC0004 **Attach to Logging Services shared memory failed**

Source Files Generating Error Message: cs_LogInit.c, cs_Msg.c, logc_main.c
Problem Description: An HPSS server could not attach to the shared memory region allocated by the Log Client.

System Action: Messages may be logged to syslog, stdout, and/or a file, depending on the value of $HPSSLOG. Since this condition usually indicates the Log Client is not running, it normally means that log messages are not getting to the central or local log files or to SSM.
Administrator Action: The Log Client is probably not executing. Start the Log Client on the node from which the message is being received. If the message is being generated when trying to start the Log Client, look up the error code from the log message as an errno value and address the indicated issue.

LOG_0005 Socket connect to Log Client failed

Source Files Generating Error Message: cs_LogConnect.c
Problem Description: An attempt to connect to the socket for communication with the Log Client failed. The Log Client may not be executing.
System Action: Messages may be logged to syslog, stdout, and/or a file depending on the value of $HPSSLOG. Since this condition usually indicates the Log Client is not running, it normally means that log messages are not getting to the central or local log files or to SSM. The software will retry the connect each time another message is sent to be logged.
Administrator Action: Check to verify that the Log Client for the node from which the message is being generated is executing. It may be necessary to restart the Log Client.

LOG_0006 Invalid value for environment variable HPSSLOG_SHMKEY
LOGC0006 Invalid value for environment variable HPSSLOG_SHMKEY

Source Files Generating Error Message: cs_LogInit.c, cs_Msg.c, logc_main.c
Problem Description: The environment variable HPSSLOG_SHMKEY has been specified, but the value is not a valid numeric value. This environment variable is used to supply a non-default key value for the Log Client shared memory region.
System Action: Server initialization for the server will fail.
Administrator Action: Correct the HPSSLOG_SHMKEY environment variable value to be a valid numeric value.

LOG_0007 Attempt to close %s message catalog failed

Source Files Generating Error Message: cs_LogClose.c
Problem Description: An attempt to close a message catalog failed.
System Action: Logging will proceed with shutting down.
Administrator Action: None.

LOG_0010 Number of bytes to be logged is too large

Source Files Generating Error Message: cs_LogSend.c, cs_Msg.c
Problem Description: The message to be logged exceeds the maximum length allowed.
System Action: The message will not be logged.
Administrator Action: None.

LOG_0011 **Allocation of logging buffer failed**

LOGC0011 **Allocation of logging buffer failed**

LOGD0011 **Allocation of logging buffer failed**

Source Files Generating Error Message: cs_LogSend.c, cs_Msg.c, logcm_psyslog_iodior.c, logcm_psyslog_text.c, logc_iodior.c, logc_read_msg.c, logcm_prt_iodior.c, logcm_prt_text.c, log_archive.c, logd_proc_msg.c
Problem Description: A log output buffer could not be allocated.
System Action: The message will not be logged.
Administrator Action: There is insufficient memory to log the message. Determine why the system is out of memory.

LOG_0012 **Semaphore acquire operation failed**

LOGC0012 **Semaphore acquire operation failed**

Source Files Generating Error Message: cs_Msg.c, logc_init_policy.c
Problem Description: The communication between Log Client clients and the Log Client itself failed. This may result in the log message not being transmitted and/or recorded via the normal logging path.
System Action: The message may still be logged. An error code is returned to the HPSS server.
Administrator Action: Check the health of the Log Client process on the Core Server machine. Determine why the semaphore operation failed and address the issue. The active logging policy may be affected. Consider restarting or reinitializing the Log Client.

LOG_0013 **Semaphore release operation failed**

LOGC0013 **Semaphore release operation failed**

Source Files Generating Error Message: cs_Msg.c, logc_init_policy.c
Problem Description: The communication between Log Client clients and the Log Client itself failed. This may result in the log message not being transmitted and/or recorded via the normal logging path.
System Action: The message may still be logged. An error code is returned to the HPSS server.
Administrator Action: Check the health of the Log Client process on the Core Server machine. Determine why the semaphore operation failed and address the issue. The active logging policy may be affected. Consider restarting or reinitializing the Log Client.

LOG_0014 **Message not found in message catalog**

Source Files Generating Error Message: cs_Msg.c
Problem Description: An HPSS program specified a message number that could not be located in the message catalog.
System Action: A default message (English only) will be output.
Administrator Action: Check the NLSPATH environment variable to make sure the HPSS message catalog path is included.

LOG_0015 Logging policy not found-logging enabled for ALARM and EVENT only

Source Files Generating Error Message: cs_Msg.c
Problem Description: A log policy configuration entry could not be found for the server.
System Action: Processing will continue with logging enabled for ALARM and EVENT only. ALARM and EVENT messages will be forwarded to the SSM.
Administrator Action: If a logging policy to filter logged messages is desired, open the Log Policy Configuration window to add an entry for the server that generated this message.

LOG_0016 Invalid severity level detected

Source Files Generating Error Message: cs_Msg.c, logcm_format_rechdr.c
Problem Description: A severity level other that NONE, WARNING, MINOR, MAJOR, CRITICAL, INDETERMINATE, or CLEARED was detected.
System Action: The invalid message will be not be logged or sent to SSM.
Administrator Action: None.

LOG_0020 Socket write to Log Client failed

Source Files Generating Error Message: cs_LogSend.c
Problem Description: The transfer of a log message to the Log Client failed.
System Action: A message will not be successfully logged.
Administrator Action: Verify that the client port is not already in use. The Client Port number may be located from the Logging Client Configuration window. Otherwise, report this problem. If the problem persists, it may be necessary to recycle the server generating the error.

LOG_0021 Wait on a condition variable failed
LOGC0021 Wait on a condition variable failed
LOGD0021 Wait on a condition variable failed

Source Files Generating Error Message: cs_LogConnect.c, cs_LogSend.c, logc_reconnect_ssm.c, logd_reconnect_ssm.c
Problem Description: A wait on a condition variable failed. This error should not occur.
System Action: A message will not be successfully logged. The Log Client or Log Daemon may exit.
Administrator Action: Report this problem. If the problem persists, it may be necessary to recycle the server generating the error.

LOG_0022 Signal to wake a condition variable failed
LOGC0022 Signal to wake a condition variable failed
LOGD0022 Signal to wake a condition variable failed

Source Files Generating Error Message: cs_LogConnect.c, cs_LogSend.c, logc_reconnect_ssm.c, logd_reconnect_ssm.c

Problem Description: An attempt to wake up the thread waiting on a condition variable failed. This error should not occur.
System Action: A message will not be successfully logged. The Log Client or Log Daemon may exit.
Administrator Action: Report this problem. If the problem persists, it may be necessary to recycle the server generating the error.

LOGC0100 Log Client reinitialization request received

Source Files Generating Error Message: logc_ServerSetAttrs.c
Problem Description: A request to reinitialize the Log Client was received.
System Action: Informational. The Log Client configuration file and log policy file will be reinitialized.
Administrator Action: None.

LOGC0101 Attribute specified is not settable

LOGD0101 Attribute specified is not settable

Source Files Generating Error Message: logc_ServerSetAttrs.c, logd_ServerSetAttrs.c
Problem Description: The managed object attribute specified is not settable.
System Action: The request to set the attribute will fail. Log Client goes into minor status.
Administrator Action: None.

LOGC0120 Removal of the Logging Services semaphore failed

Source Files Generating Error Message: logc_cleanup.c, logc_main.c
Problem Description: Removal of the Logging Services semaphore at 1) Log Client termination or 2) Log Client initialization when an old semaphore was detected was unsuccessful. This error should not occur.
System Action: A semaphore may remain allocated. Log Client goes into major or minor status, depending on error.
Administrator Action: If semaphores accumulate, remove semaphores with the ipcrm command.

LOGC0121 Removal of Logging Services shared memory failed

Source Files Generating Error Message: logc_cleanup.c, logc_main.c
Problem Description: Removal of the Logging Services shared memory at Log Client termination was unsuccessful. This error should not occur.
System Action: Shared memory may remain allocated. Log Client may terminate without further cleanup.
Administrator Action: If shared memory regions accumulate, remove shared memory with the ipcrm command.

LOGC0122 Socket descriptor close failed

LOGD0122 Socket descriptor close failed

Source Files Generating Error Message: logc_cleanup.c, logc_select_msg.c, logd_main.c
Problem Description: A close of the socket descriptor (for Log Client/Log Daemon communication) failed.
System Action: The process generating the error (Log Client or Log Daemon) goes into minor status.
Administrator Action: None.

LOGC0123 Purge of login context failed

LOGD0123 Purge of login context failed

Source Files Generating Error Message: logc_cleanup.c, loga_cleanup.c, logd_cleanup.c
Problem Description: The purge of the login context failed during process termination.
System Action: None. The process was exiting when the error occurred.
Administrator Action: None.

LOG_0130 Socket create failed: %s

LOGC0130 Socket create failed: %s

LOGD0130 Socket create failed: %s

Source Files Generating Error Message: cs_LogConnect.c, logc_connect.c, logc_init_socket.c, logd_init.c
Problem Description: The creation of a socket to transfer log messages from a server to the Log Client or from the Log Client to the Log Daemon failed. The system may lack resources to complete the operation.
System Action: The program may terminate.
Administrator Action: Restart the server when resources are available.

LOG_0131 Host name could not be determined

LOGC0131 Host name could not be determined

LOGD0131 Host name could not be determined

Source Files Generating Error Message: cs_LogConnect.c, logc_connect.c, logd_main.c
Problem Description: A call to get the name of the local host on which the server is executing failed. This error should not occur.
System Action: The program may terminate.
Administrator Action: Restart the server if it terminates.

LOG_0140 XDR encoding error

LOGC0140 XDR encoding error

Source Files Generating Error Message: cs_LogSend.c, logc_read_msg.c, logc_text.c

Problem Description: An error occurred while encoding the log message to be sent to the Log Daemon. This error should not occur. If it does, the message will not be logged.
System Action: None.
Administrator Action: None.

LOGC0150 Log Client terminating

Source Files Generating Error Message: logc_fail.c, logc_sig_thread.c
Problem Description: The Log Client is terminating execution.
System Action: None, informational.
Administrator Action: None

LOG_0151 Lock of mutex failed

LOGC0151 Lock of mutex failed

LOGD0151 Lock of mutex failed

Source Files Generating Error Message: cs_LogConnect.c, cs_LogSend.c, cs_Msg.c, logc_fail.c, logc_main.c, logc_sig_thread.c, logd_fail.c, logd_main.c, logd_sig_thread.c
Problem Description: An attempt to lock a mutex failed. This error should never occur.
System Action: The log message may not be logged.
Administrator Action: This problem should not occur. If this error is produced by the Log Client or Log Daemon, the process will terminate. If this happens when the server was terminating anyway, it’s not an issue. If it causes a server to shut down unexpectedly, restart the server. If the problem persists, recycle the system.

LOGC0160 Initialization of authorization vector failed

LOGD0160 Initialization of authorization vector failed

Source Files Generating Error Message: logc_init_config.c, logd_init_config.c
Problem Description: Call to hpss_SECInitAuthzVector routine to build the authorized caller list failed.
System Action: The server incurring the error will terminate.
Administrator Action: Examine error codes to determine specific cause of failure. Call HPSS support if needed.

LOGC0161 Error getting database transaction handle: %s

LOGD0161 Error getting database transaction handle: %s

Source Files Generating Error Message: logc_init_config.c, logc_init_policy.c, logd_init_config.c
Problem Description: An attempt to allocate a transaction handle to be used in metadata access operations failed.
System Action: A message will be logged and the associated operation failed. The logging process will terminate.
Administrator Action: Examine the specific error code for the cause of the failure. Contact HPSS support if needed.

LOGC0162 General configuration file not found for server %s

LOGD0162 General configuration file not found for server %s

Source Files Generating Error Message: logc_init_config.c, logd_init_config.c
Problem Description: There is no generic server configuration entry for the Log Client , Log Daemon, or SSM.
System Action: The logging process (Log Client or Log Daemon) will terminate.
Administrator Action: Verify the Log Client, Log Daemon, and SSM basic configuration information. If manually starting a logging process, verify the correct descriptive name is being supplied. Create the Log Client, Log Daemon, or SSM basic configuration entry if it does not exist.

LOGC0163 Error reading specific configuration file for server %s: %s

LOGD0163 Error reading specific configuration file for server %s: %s

Source Files Generating Error Message: logc_init_config.c, logd_init_config.c
Problem Description: An error has been encountered reading the specific configuration of a server using the server's descriptive name. Logging servers read their own and SSM's specific configuration this way.
System Action: The server aborts.
Administrator Action: Check the DB2 server. Check that the server specific configuration file exists and that the expected number of server specific configuration records have been created. Check the name of the server specific configuration file in the server's generic configuration record. Check that a server with the given descriptive name has been created.

LOGC0164 Specific configuration file not found for server %s

LOGD0164 Specific configuration file not found for server %s

Source Files Generating Error Message: logc_init_config.c, logd_init_config.c
Problem Description: There is no specific server configuration file entry for the Log Client or Log Daemon.
System Action: The process will terminate.
Administrator Action: Verify the Log Client or Log Daemon specific configuration information.

LOGC0165 Error reading general configuration file for server %s: %s

LOGD0165 Error reading general configuration file for server %s: %s

Source Files Generating Error Message: logc_init_config.c
Problem Description: An error has been encountered reading the generic configuration of a server using the server's descriptive name. A server usually only reads its own configuration this way. The Log Client reads its own and the Log Daemon's specific configuration.
System Action: The server aborts.
Administrator Action: Check the DB2 server. Check that the server generic configuration file exists and that the expected number of server generic configuration

records have been created. Check the name of the server generic configuration file in the global configuration record. Check that the correct descriptive name is being used.

LOGC0166 Global configuration file not found

Source Files Generating Error Message: logc_init_config.c
Problem Description: There is no global configuration entry.
System Action: The Log Client will terminate.
Administrator Action: Verify the Global configuration information. Create the Global configuration entry if it does not exist.

LOGC0167 Error reading Global Configuration file: %s

Source Files Generating Error Message: logc_init_config.c
Problem Description: An error has been encountered reading the global configuration record at startup time.
System Action: The server aborts.
Administrator Action: Check the DB2 server. Check that a global configuration file exists and that the global configuration record has been created.

LOGC0168 Database select failed: %s
LOGD0168 Database select failed: %s

Source Files Generating Error Message: logc_init_config.c, logc_init_policy.c, logd_init_config.c
Problem Description: A metadata operation failed.
System Action: If the operation was necessary for Log Client or Log Daemon initialization, the process will terminate.
Administrator Action: Investigate metadata server status.

LOGC0180 Log Policy configuration record not found

Source Files Generating Error Message: logc_init_policy.c
Problem Description: The Log Client was unable to find a log policy configuration.
System Action: The Log Client will continue to execute using the default log policy.
Administrator Action: Configure the Log Client's log policy if one is desired. Remember to restart or re-init the Log Client.

LOGC0181 Error reading Log Policy configuration file: %s

Source Files Generating Error Message: logc_init_policy.c
Problem Description: The Log Client was unable to read the log policy configuration.
System Action: The Log Client will continue to execute using the default log policy.
Administrator Action: Verify DB2 and the Log Client's log policy configuration.

LOGC0182 Creation of message handling thread failed

Source Files Generating Error Message: logc_queue.c

Problem Description: The Log Client was unable to start the log message handler thread.
System Action: The Log Client will shut down.
Administrator Action: Start the Log Client when resources are available.

LOGC0190 Initialization of a mutex failed

LOGD0190 Initialization of a mutex failed

Source Files Generating Error Message: logc_main.c, logd_main.c
Problem Description: The Log Client or Log Daemon was unable to create a mutex. Either the system lacked sufficient memory to perform the operation or the number of mutexes created for user *hpsslog* has exceeded the system limit.
System Action: The process will terminate.
Administrator Action: Restart the process when resources are available.

LOGD0191 Creation of signal handling thread failed

Source Files Generating Error Message: logd_main.c
Problem Description: The Log Daemon was unable to create a thread to handle signals. Either the system lacked sufficient memory to perform the operation or the user *hpsslog* has exceeded the number of threads allowed.
System Action: The Log Daemon will terminate.
Administrator Action: Start the Log Daemon when resources are available.

LOGC0192 Fatal initialization error: %s

LOGD0192 Fatal initialization error: %s

Source Files Generating Error Message: logc_main.c, log_archive.c, logd_main.c
Problem Description: Initialization of the Log Client, Log Daemon, or log file archiver failed. Probable reasons are an invalid number of command line arguments or an invalid argument (e.g., invalid principal name or invalid protection level).
System Action: The process will terminate.
Administrator Action: Verify the input arguments to the process are correct. In particular verify that a valid principal name and protection level are specified.

LOGC0193 Creation of SSM processing thread failed

LOGD0193 Creation of SSM processing thread failed

Source Files Generating Error Message: logc_main.c, logd_main.c
Problem Description: The Log Client or Log Daemon was unable to create a thread to process SSM requests for getting and setting the Log Daemon managed object attributes. Either the system lacked sufficient memory to perform the operation or the user *hpsslog* has exceeded the number of threads allowed.
System Action: The process will terminate.
Administrator Action: Start the process when resources are available.

LOGC0194 Shared memory allocation for Logging Services failed

Source Files Generating Error Message: logc_main.c

Problem Description: Shared memory for storing Log Client managed object attributes could not be created.
System Action: The Log Client will terminate.
Administrator Action: Check to determine if 1) a shared memory ID 0xaf0 (2800) has been created for an application other than HPSS, 2) the system limit of shared memory ids has been exceeded, or 3) there is insufficient physical memory. If so, correct the condition, and restart the Log Client.

LOGC0195 Semaphore id could not be created

Source Files Generating Error Message: logc_main.c
Problem Description: The Logging Services semaphore could not be created. This error should only occur if the system limit of semaphores has been exceeded.
System Action: The Log Client will terminate.
Administrator Action: If the system limit of semaphores has been exceeded, correct the condition. Restart the Log Client when the condition clears.

LOGC0196 Semaphore value could not be set

Source Files Generating Error Message: logc_main.c
Problem Description: The Logging Services semaphore value was not set. The most probable reason is that somehow the semaphore has been removed.
System Action: The Log Client will terminate.
Administrator Action: Restart the Log Client. It should recreate the semaphore.

LOGC0200 Connection to Log Daemon failed-retrying

Source Files Generating Error Message: logc_init_config.c
Problem Description: The Log Client is attempting to connect to the Log Daemon socket. The Log Daemon is probably not executing or has not completed initialization.
System Action: The Log Client will periodically attempt to connect to the Log Daemon.
Administrator Action: Start the Log Daemon if it is not executing. If this does not resolve the issue, verify that the Log Client and Log Daemon configurations agree on which address and port to use for the connection.

LOGC0201 Connection to Log Daemon failed with severe error

Source Files Generating Error Message: logc_init_config.c
Problem Description: An unrecoverable error occurred when attempting to reconnect to the Log Daemon.
System Action: The Log Client will terminate.
Administrator Action: Restart the Log Client and Log Daemon.

LOGC0203 Log Client startup complete

Source Files Generating Error Message: logc_main.c
Problem Description: The Log Client has completed initialization.

System Action: The Log Client begins processing log messages.
Administrator Action: None

LOGC0205 Log Client reinitialization failed

Source Files Generating Error Message: logc_main.c
Problem Description: An attempt to reinitialize the Log Client following an SSM REINIT operation failed.
System Action: The Log Client will terminate.
Administrator Action: Refer to the error messages which preceded this message for additional insight. Restart the Log Client once any issues have been addressed.

LOGC0206 Log message notification to SSM failed

Source Files Generating Error Message: logc_alarm_event_notify.c
Problem Description: An attempt to send a log message (e.g. alarm, event) to SSM failed.
System Action: The message will not be sent to SSM, and therefore will not be displayed in the Alarm and Events List.
Administrator Action: Verify that SSM is running and available.

LOG_0208 Detach of Log Client shared memory failed

Source Files Generating Error Message: cs_Msg.c, logc_main.c
Problem Description: An attempt to detach shared memory failed. This error should not occur.
System Action: Shared memory may remain allocated.
Administrator Action: If shared memory regions accumulate, remove them with the ipcrm command.

LOGC0220 SSM notify for server attribute changes failed
LOGD0220 SSM notify for server attribute changes failed

Source Files Generating Error Message: logc_notify_ssm.c, logd_notify_ssm.c
Problem Description: The interface to notify SSM of managed object changes failed. The most probable cause is that SSM is not executing.
System Action: Managed object attribute changes will not be sent to SSM. The logging program (Log Client or Log Daemon) will continue processing.
Administrator Action: Determine if SSM is active. If not, restart SSM.

LOGC0232 Invalid message size received
LOGD0232 Invalid message size received

Source Files Generating Error Message: logc_read_msg.c, logd_proc_msg.c
Problem Description: An invalid message size was received for a log record.
System Action: The invalid record will not be logged.
Administrator Action: None.

LOGC0240 Reconnect to Log Daemon failed-retrying

Source Files Generating Error Message: logc_send_msg.c
Problem Description: The socket connection to the Log Daemon was lost.
System Action: The Log Client will periodically attempt to reestablish the socket connection.
Administrator Action: Restart the Log Daemon if it is not executing.

LOGC0241 Reconnect to Log Daemon failed with severe error

Source Files Generating Error Message: logc_send_msg.c
Problem Description: An attempt to reconnect to the Log Daemon failed with an unrecoverable error.
System Action: The Log Client will terminate.
Administrator Action: Restart both the Log Client and the Log Daemon.

LOGC0242 Socket write failed

Source Files Generating Error Message: logc_send_msg.c
Problem Description: An unrecoverable error occurred while transferring a log message from the Log Client to the Log Daemon.
System Action: The Log Client will terminate.
Administrator Action: Restart the Log Client. If the issue recurs, it may also help to restart the Log Daemon.

LOG_0243 Socket write failed—incorrect byte count detected

LOGC0243 Socket write failed—incorrect byte count detected

Source Files Generating Error Message: cs_LogSend.c, logc_send_msg.c
Problem Description: While transferring a log record from a server to the Log Client or from the Log Client to the Log Daemon, the wrong number of bytes were moved. This error should not occur.
System Action: The log message may be missing or incomplete. The process generating the error may terminate.
Administrator Action: Restart the terminated process if necessary.

LOGC0250 Call to block signals failed

LOGD0250 Call to block signals failed

Source Files Generating Error Message: logc_sig_thread.c, logd_main.c
Problem Description: The mask of signals to block from the signal handling routine could not be set. This error should not occur.
System Action: The process incurring the error (Log Client or Log Daemon) will terminate.
Administrator Action: Restart the failed process.

LOGD0251 Suspend of signal handling thread failed

Source Files Generating Error Message: logd_sig_thread.c
Problem Description: An attempt to wait for incoming signals failed. This error should not occur.

System Action: The Log Daemon will terminate.
Administrator Action: Restart the failed process.

LOGC0252 Signal: %d; sent by pid %d uid %d; code = %d

Source Files Generating Error Message: logc_sig_thread.c
Problem Description: The Log Client received an unexpected signal. The signal number and process id and user id of the sending process can help determine where the signal came from.
System Action: The Log Client will continue. This message is informational.
Administrator Action: Investigate why the process in the message is sending the indicated signal to the Log Client.

LOGC0253 Cannot catch signal %d

Source Files Generating Error Message: logc_sig_thread.c
Problem Description: An attempt to install a signal handler failed.
System Action: The Log Client will continue. This message is informational.
Administrator Action: None.

LOGC0254 Can’t request default signal handling for signal %d

Source Files Generating Error Message: logc_sig_thread.c
Problem Description: An attempt to install a default signal handler failed.
System Action: The Log Client will continue. This message is informational.
Administrator Action: None.

LOGC0260 Creation of SSM binding handle thread failed
LOGD0260 Creation of SSM binding handle thread failed

Source Files Generating Error Message: logc_reconnect_ssm.c, logd_reconnect_ssm.c
Problem Description: The Log Client or Log Daemon was unable to create the thread responsible for establishing a binding to SSM.
System Action: The process (Log Client or Log Daemon) will terminate.
Administrator Action: This error can happen because of insufficient system resources or insufficient user permissions. Address the cause of the failure and restart the failing process.

LOG_0261 Unlock of mutex failed
LOGC0261 Unlock of mutex failed
LOGD0261 Unlock of mutex failed

Source Files Generating Error Message: cs_LogConnect.c, cs_LogSend.c, cs_Msg.c, logc_main.c, logd_main.c
Problem Description: Logging Services was unable to unlock a mutex. This error should never occur.
System Action: The message may not be logged. The process incurring the error may terminate.

Administrator Action: Restart the failing process if necessary. If the problem persists, a system recycle may be required.

LOGC0262 Join of SSM binding handle thread failed

LOGD0262 Join of SSM binding handle thread failed

Source Files Generating Error Message: logc_reconnect_ssm.c, logd_reconnect_ssm.c
Problem Description: The join of the SSM connection thread failed.
System Action: The Log Client or Log Daemon will terminate.
Administrator Action: None. The process was terminating anyway.

LOGC0263 Status check of SSM connection failed

LOGD0263 Status check of SSM connection failed

Source Files Generating Error Message: logc_reconnect_ssm.c, logd_reconnect_ssm.c
Problem Description: A call to check the status of the process's (Log Client or Log Daemon) connection to SSM failed.
System Action: None.
Administrator Action: None.

LOGC0264 Internal queue count went negative. Recovered.

Source Files Generating Error Message: logc_queue.c
Problem Description: The count of queue entries for the Log Client's internal queue of log messages went negative. The count was recovered without apparent loss by walking the queue.
System Action: None.
Administrator Action: None.

LOGC0265 Internal queue count went negative. Possible entry loss.

Source Files Generating Error Message: logc_queue.c
Problem Description: The count of entries for the Log Client's internal queue of log messages went negative. Upon attempting recovery, it was found that the queue head pointer was lost so no recovery was possible. An unknown number of entries may have been lost. This is a sanity check that should never happen.
System Action: None.
Administrator Action: Report the occurrence to your HPSS support person.

LOGC0270 Write to syslog failed

Source Files Generating Error Message: logc_iodior.c, logc_text.c
Problem Description: A write of a log record to syslog failed.
System Action: The Log Client will terminate.
Administrator Action: Restart the Log Client.

LOGC0271 Write to local log file failed

Source Files Generating Error Message: logc_iodior.c
Problem Description: A write of a log record to syslog failed
System Action: The Log Client will terminate.
Administrator Action: Restart the Log Client.

LOGC0280 Socket bind failed.

Source Files Generating Error Message: logc_init_socket.c
Problem Description: The Log Client could not bind to the socket used for communication with its clients. This is most likely because the address/port combination is already bound.
System Action: The Log Client will terminate.
Administrator Action: Check to determine if another process is already bound to this address/port combination.

LOGD0401 Invalid argument count specified

Source Files Generating Error Message: log_archive.c
Problem Description: An invalid argument count was received by the log archive program. This should not occur.
System Action: The Log Archiver will terminate without archiving the log file.
Administrator Action: Run the hpss_log_cleanup.pl script to archive old log files.

LOGD0403 Attach to Log Daemon shared memory failed

Source Files Generating Error Message: log_archive.c, logd_main.c
Problem Description: The Log Daemon or log archive program could not attach to the shared memory region allocated by the Log Daemon. This error should not occur.
System Action: The Log Daemon or Log Archiver will terminate.
Administrator Action: Restart the Log Daemon or run hpss_log_cleanup.pl to archive old log files.

LOGD0404 Open of log file being archived failed

Source Files Generating Error Message: log_archive.c
Problem Description: An open of the file being archived failed.
System Action: The log archive program will terminate, and the log file will not be archived.
Administrator Action: Investigate and address the reason for the failure. Restart the Log Daemon if the problem persists. Run hpss_log_cleanup.pl to archive old log files if needed.

LOGD0405 Read of log file being archived failed

Source Files Generating Error Message: log_archive.c
Problem Description: The read of the log file being archived failed.
System Action: The log archive program will terminate, and some or all of the log file will not be archived.

Administrator Action: Restart the Log Daemon if the problem persists. Run hpss_log_cleanup.pl if needed.

LOGD0406 lseek failed on log file being archived

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to position the log file being archived back to the beginning of the file failed. This error should not occur.
System Action: The log archive program will terminate. Some or all of the log file may not be archived.
Administrator Action: Restart the Log Daemon if the problem persists. Run hpss_log_cleanup.pl if needed.

LOGD0408 Close of log file being archived failed

Source Files Generating Error Message: log_archive.c
Problem Description: Following the archive of a log file, the close of the file being archived failed.
System Action: The Log Archiver will terminate.
Administrator Action: None

LOGD0409 Open of log archive failed

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to open a file in the HPSS archive failed.
System Action: The Log Archiver will terminate, and the log file will not be archived.
Administrator Action: Restart the Log Daemon if the problem persists. Run hpss_log_cleanup.pl if necessary.

LOGD0410 Write of log archive failed

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to write to the archive copy of a log file failed.
System Action: The Log Archiver will terminate. Some or all of the log file will not be archived.
Administrator Action: Restart the Log Daemon if the problem persists. Run hpss_log_cleanup.pl if necessary.

LOGD0411 Close of log archive failed

Source Files Generating Error Message: log_archive.c, loga_cleanup.c
Problem Description: Following the archive of a log file, the close of the archive file failed.
System Action: Close open file descriptors when the process terminates.
Administrator Action: None.

LOGD0413 Detach of Log Daemon shared memory failed

Source Files Generating Error Message: loga_cleanup.c

Problem Description: An attempt to detach the Log Daemon shared memory at termination of the archive program failed. This error should not occur.
System Action: Shared memory may remain allocated.
Administrator Action: If shared memory regions accumulate, remove shared memory with the ipcrm command.

LOGD0414 Log archive process terminated with error

Source Files Generating Error Message: loga_fail.c
Problem Description: Due to an error condition (which has been logged), the Log Archiver is terminating.
System Action: The Log Archiver will terminate.
Administrator Action: Refer to additional log messages to determine why the program terminated.

LOGD0415 Creation of archive directory failed

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to create a log directory in the HPSS file system failed.
System Action: The Log Archiver will terminate.
Administrator Action: Verify that
1) the HPSS Core Server is executing,
2) the Log process has sufficient permissions to create a directories in the archive tree under /log, and
3) there is enough free space to create and write the file.

Run hpss_log_cleanup.pl if needed to archive old log files.

For the Log process to be able to create subdirectories under the /log directory in the HPSS archive the POSIX permissions must allow write operations by user hpsslog. POSIX permissions can be set using scrub or ftp. If Account Validation is enabled, to have write permission in /log, hpsslog must have a default account entry in the ACCTVAL table, which can be updated with the hpss_avaledit utility if necessary.

LOGD0416 Setting of file creation mask failed

Source Files Generating Error Message: log_archive.c
Problem Description: Setting the umask for the HPSS archive log file failed.
System Action: The Log Archiver will terminate.
Administrator Action: Verify that the HPSS Core Server is properly configured and is executing.

LOGD0417 Failure checking existence of archive directory

Source Files Generating Error Message: log_archive.c
Problem Description: Checking for the existence of an archive directory failed.
System Action: The Log Archiver will terminate.

Administrator Action: Verify that the HPSS Core Server is properly configured and is executing and that user hpsslog has read and write permissions on the /log directory and descendants in the HPSS archive.

LOGD0461 Execution of archival program failed

Source Files Generating Error Message: logd_archive_logfile.c
Problem Description: An attempt to run hpss_log_archive to archive a filled log file to HPSS failed. The system may lack sufficient memory to perform the operation.
System Action: The Log Daemon will terminate.
Administrator Action: Restart the Log Daemon. Run the hpss_log_cleanup.pl script if necessary.

LOGD0462 Creation of archival program failed

Source Files Generating Error Message: logd_archive_logfile.c
Problem Description: An attempt to spawn a child process to run hpss_log_archive to archive a filled log file to HPSS failed. The system may lack sufficient memory to perform the operation.
System Action: The Log Daemon will terminate.
Administrator Action: Restart the Log Daemon when resources are available. Run hpss_log_cleanup.pl if necessary to archive old log files.

LOGD0470 Socket descriptor close failed

Source Files Generating Error Message: logd_archive_logfile.c, logd_cleanup.c,
Problem Description: An attempt to close the Log Daemon socket used for receiving Log Client messages failed.
System Action: None. This problem should not occur. If it does occur, the socket descriptor may have been corrupted. When this happens, the process is either exiting or about to exec hpss_log_archive, so the socket descriptor is irrelevant at this point.
Administrator Action: None.

LOGD0471 Removal of Log Daemon shared memory failed

Source Files Generating Error Message: logd_cleanup.c
Problem Description: Removal of the Log Daemon shared memory at process termination was unsuccessful. This error should not occur.
System Action: Shared memory may remain allocated.
Administrator Action: If shared memory regions accumulate, remove shared memory with the ipcrm command.

LOGD0480 Log Daemon terminating

Source Files Generating Error Message: logd_fail.c, logd_sig_thread.c
Problem Description: The Log Daemon is terminating due to an error or signal.
System Action: None, informational.
Administrator Action: None

LOGD0490 Log Daemon starting

Source Files Generating Error Message: logd_init.c
Problem Description: The Log Daemon is beginning execution.
System Action: None, informational.
Administrator Action: None.

LOGD0491 Invalid Log Daemon pathname

Source Files Generating Error Message: logd_init_config.c
Problem Description: The executable pathname in the HPSS server configuration file entry for the Log Daemon contains no / characters. It should be a full, absolute path, beginning with /.
System Action: The Log Daemon will terminate.
Administrator Action: Edit the Log Daemon basic configuration entry to correct ExecutablePathName. Restart the Log Daemon.

LOGD0493 Socket bind failed - Log Daemon may already be executing

Source Files Generating Error Message: logd_init.c
Problem Description: The Log Daemon could not initialize since the port it uses was already bound. Either the Log Daemon is already executing, or the Log Daemon has just terminated, and the system has not yet released the port.
System Action: The Log Daemon will terminate.
Administrator Action: Check to determine if the Log Daemon is already executing. If so, and the Log Daemon is to be recycled, terminate the Log Daemon, and then restart it. If the Log Daemon was not executing, wait a few minutes to allow the port to be released, and then restart the Log Daemon.

LOGC0494 Socket listen failed
LOGD0494 Socket listen failed

Source Files Generating Error Message: logc_init_socket.c, logd_init.c
Problem Description: An attempt to listen for incoming connections failed.
System Action: The process (Log Client or Log Daemon) will terminate. This error should not occur.
Administrator Action: Restart the Log Daemon.

LOGD0495 Log Daemon startup complete

Source Files Generating Error Message: logd_init.c
Problem Description: The Log Daemon has completed initialization.
System Action: None, informational
Administrator Action: None.

LOGD0514 Failure in access() checking existence of file '%s'

Source Files Generating Error Message: logd_switch_logfiles.c
Problem Description: An attempt to determine the existence of a file failed. This error should not occur.
System Action: The Log Daemon continues running.

Administrator Action: None.

LOGD0515 Log file lseek failed

Source Files Generating Error Message: logd_init_logfiles.c, logd_init_verify_logfile.c, logd_switch_logfiles.c
Problem Description: An attempt to position within a log file failed. This error should not occur.
System Action: The Log Daemon will exit.
Administrator Action: Restart the Log Daemon.

LOGD0516 Log file write failed

Source Files Generating Error Message: logd_init_logfiles.c, logd_switch_logfiles.c
Problem Description: A write to a log file failed.
System Action: The Log Daemon will exit.
Administrator Action: Check to verify that the file system is not full. Restart the Log Daemon.

LOGD0527 Multiple current logfiles: %s

Source Files Generating Error Message: logd_init_logfiles.c
Problem Description: More than one recent, in use log file has been found.
System Action: The Log Daemon will use the log file with the most recent timestamp in its name.
Administrator Action: Clean up the /var/hpss/log directory by deleting recent log files other than the most recent one. These may optionally be archived before removal if the log records they contain are deemed worth keeping.

LOGD0535 Can’t open logfile %s
LOGC0535 Can’t open logfile %s

Source Files Generating Error Message: logd_init_logfiles.c, logc_init_config.c
Problem Description: An attempt to open a new or the most recent log file failed.
System Action: The Logging process will exit.
Administrator Action: Investigate and address the reason for the failure (permissions on the file, permissions on the parent directory, etc.). Restart the failing server.

LOGD0536 localtime failed

Source Files Generating Error Message: logd_init_logfiles.c, logd_switch_logfiles.c
Problem Description: An attempt to break the current time out from an epoch value to a struct tm has failed. This error should not occur.
System Action: The Log Daemon will exit.
Administrator Action: Restart the Log Daemon.

LOGD0537 Can't get end time from file

Source Files Generating Error Message: log_archive.c, logd_switch_logfiles.c
Problem Description: An attempt to parse the end time from the file has failed. This error should not occur.
System Action: The Log Archiver will exit. If the error occurs in the Log Daemon, it will simply use the current time instead.
Administrator Action: Run hpss_log_cleanup.pl if necessary.

LOGD0538 Failure parsing time string: '%20.20s'

Source Files Generating Error Message: log_archive.c, logd_switch_logfiles.c
Problem Description: An attempt to parse a time string has failed. This error should not occur.
System Action: The Log Archiver will exit. The Log Daemon will use the current time instead.
Administrator Action: Run hpss_log_cleanup.pl if necessary.

LOGD0539 mktime fails

Source Files Generating Error Message: log_archive.c, logd_switch_logfiles.c
Problem Description: An attempt to generate an epoch time value from a broken out struct tm failed. This error should not occur.
System Action: The Log Archiver will exit. The Log Daemon will use the current time instead.
Administrator Action: Run hpss_log_cleanup.pl if necessary.

LOGD0540 Log file read failed

Source Files Generating Error Message: logd_switch_logfiles.c
Problem Description: An attempt to read the end time from a log file failed. This error should not occur.
System Action: The Log Daemon will use the current time.
Administrator Action: None.

LOG_0541 stat failed

Source Files Generating Error Message: logc_init_config.c, logd_LogFileGetAttrs.c
Problem Description: An attempt to call stat() on a file failed.
System Action: In logc_init_config.c, stat() is used to determine whether a file path is a directory or not. If stat() fails, the assumption is that the path is not a directory. In logd_LogFileGetAttrs.c, stat() is used to obtain the size and last write time of a file. If stat() fails, invalid information will be used.
Administrator Action: If appropriate, run fsck on the failing disk volume.

LOGD0542 strftime failed

Source Files Generating Error Message: logd_init_logfiles.c, logd_switch_logfiles.c

Problem Description: An attempt to format a time string failed. This error should not occur.
System Action: The Log Daemon will exit.
Administrator Action: Restart the Log Daemon.

LOGD0543 rename failed

Source Files Generating Error Message: log_archive.c, logd_switch_logfiles.c
Problem Description: An attempt to format a time string failed. This error should not occur.
System Action: The process (Log Archiver or Log Daemon) will exit.
Administrator Action: Restart the Log Daemon or run hpss_log_cleanup.pl to archive missed log files.

LOGD0544 fchmod failed

Source Files Generating Error Message: logd_init_logfiles.c
Problem Description: An attempt to set the permissions on a file failed. This error should not occur.
System Action: The Log Daemon will exit.
Administrator Action: Restart the Log Daemon.

LOGD0545 strtol failed converting '%s' (%s:%d)

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to parse a number out of a string failed. This error should not occur.
System Action: The Log Archiver will exit.
Administrator Action: Run hpss_log_cleanup.pl if necessary.

LOGD0546 error globbing for '%s'

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to get a list of log files failed. This error should not occur.
System Action: The Log Archiver will exit.
Administrator Action: Ensure the log directory (usually /var/hpss/log) is readable by user hpsslog.

LOGD0547 unlink failed on '%s'

Source Files Generating Error Message: log_archive.c
Problem Description: An attempt to delete an old, archived log file failed. This error should not occur.
System Action: The Log Archiver will exit.
Administrator Action: Verify the correct permissions on the log directory (usually /var/hpss/log).

LOGD0548 Failure parsing log file flags

Source Files Generating Error Message: logd_init_logfiles.c
Problem Description: An attempt to set the permissions on a file failed. This error should not occur.
System Action: The Log Daemon will exit.
Administrator Action: Restart the Log Daemon.

LOGD0550 Shared memory allocation for Log Daemon failed

Source Files Generating Error Message: logd_main.c
Problem Description: Shared memory for storing Log Daemon managed object attributes could not be created.
System Action: The Log Daemon will terminate.
Administrator Action: Check to determine if (1) the system limit of shared memory ids has been exceeded, or (2) there is insufficient physical memory. If so, correct the condition, and restart the Log Daemon.

LOGD0553 Log Daemon reinitialization request received

Source Files Generating Error Message: logd_main.c
Problem Description: A request to reinitialize the Log Daemon was received. The Log Daemon configuration in memory will be reinitialized.
System Action: None, informational.
Administrator Action: None

LOGD0554 Log Daemon reinitialization failed

Source Files Generating Error Message: logd_main.c
Problem Description: An attempt to reinitialize the Log Daemon following an SSM REINIT operation failed.
System Action: The Log Daemon will terminate.
Administrator Action: Refer to the error messages which preceded this message for additional insight. Address any issues and restart the Log Daemon.

LOGD0555 Log Client connect from->

Source Files Generating Error Message: logd_main.c
Problem Description: The Log Daemon accepted a connection from the designated Log Client.
System Action: None, informational.
Administrator Action: None

LOGC0556 Client connection refused—maximum connections reached

LOGD0556 Client connection refused—maximum connections reached

Source Files Generating Error Message: logc_select_msg.c, logd_main.c
Problem Description: The maximum count (100) of connections was reached in the Log Client or the Log Daemon. The 101st server connection failed.
System Action: Once the maximum connections count is reached, no additional HPSS server nodes may connect to the Log Client or Log Daemon until a connection is released.

Administrator Action: Configure the system so that no more than 100 HPSS servers are executing on each node and no more than 100 Log Client processes are trying to connect to the Log Daemon. If these counts are insufficient, contact HPSS support and ask for the system to be upgraded.

LOGC0557 Socket accept failed

LOGD0557 Socket accept failed

Source Files Generating Error Message: logc_select_msg.c, logd_main.c
Problem Description: An attempt to accept a new connection failed. This error should only occur if the maximum number of open file descriptors has been exceeded.
System Action: New connections cannot be accepted. (This event does not terminate the Log Client, however it may cause the Log Daemon's operational state to be set to MAJOR.)
Administrator Action: Usually no action is required. If the Log Daemon goes MAJOR, you may want to mark it Repaired.

LOGD0558 Log Client disconnect from->

Source Files Generating Error Message: logd_main.c
Problem Description: A Log Client disconnected from the Log Daemon reporting the message.
System Action: None, informational.
Administrator Action: None.

LOGC0559 Non-severe error—continuing

LOGD0559 Non-severe error—continuing

Source Files Generating Error Message: logc_select_msg.c, logd_main.c
Problem Description: A non-terminating error has been detected. The previous message will contain the error.
System Action: None, informational.
Administrator Action: None

LOGC0560 Select for incoming messages failed

LOGD0560 Select for incoming messages failed

Source Files Generating Error Message: logc_select_msg.c, logd_main.c
Problem Description: The select to receive incoming messages on the Log Client socket failed with an error other than a signal interrupt. This error should not occur.
System Action: The Log Daemon will terminate if this error is generated. The Log Client does not.
Administrator Action: Restart the Log Daemon if necessary.

LOG_0561 Setting of socket options failed

LOGC0561 Setting of socket options failed

LOGD0561 Setting of socket options failed

Source Files Generating Error Message: cs_LogConnect.c, logc_connect.c, logc_init_socket.c, logc_select_msg.c, logd_init.c, logd_main.c
Problem Description: An attempt to set an option on a socket failed. See the setsockopt(2) man page for a list of conditions that can cause this error.
System Action: A message will not be successfully logged.
Administrator Action: Report this problem. If the problem persists, it may be necessary to recycle the server generating the error.

LOGD0570 SSM notify for log file attribute changes failed

Source Files Generating Error Message: logd_notify_ssm.c
Problem Description: The interface to notify SSM of changes to the Log File managed object failed. The most probable cause is SSM is not executing.
System Action: Changes to Log File managed object attributes will not be sent to SSM. The Log Daemon will continue processing.
Administrator Action: Determine if SSM is active. If not, restart SSM.

LOGC0580 Client connection closed

LOGD0580 Client connection closed

Source Files Generating Error Message: logc_read_msg.c, logd_proc_msg.c
Problem Description: The reporting process has detected that one of its client's closed its socket connection.
System Action: None
Administrator Action: None. If the closed connection was the result of a failed Log Client or other server, restart the failing server.

LOGC0581 Socket read failed

LOGD0581 Socket read failed

Source Files Generating Error Message: logc_read_msg.c, logd_proc_msg.c
Problem Description: A read on a socket failed. A log message being sent from an HPSS program to the Log Client or from a Log Client to the Log Daemon was lost.
System Action: The process reporting the error (Log Client or Log Daemon) will terminate.
Administrator Action: Restart the failing program.

LOGC0582 Closing client connection due to bad log message

LOGD0582 Closing client connection due to bad log message

Source Files Generating Error Message: logc_read_msg.c, logd_proc_msg.c
Problem Description: An invalid byte count was transferred to a Log Client or to the Log Daemon.
System Action: The process reporting the error will terminate.
Administrator Action: Restart the failing program.

LOGD0583 XDR decode error

Source Files Generating Error Message: logd_proc_msg.c, logd_proc_request.c, logd_proc_text.c
Problem Description: An error occurred while decoding a log message in the Log Daemon. This error should not occur. If it does, a message record in the log will contain invalid information.
System Action: The Log Daemon will continue to execute.
Administrator Action: None.

LOG_0584 **Invalid log record type detected**

LOGC0584 **Invalid log record type detected**

LOGD0584 **Invalid log record type detected**

Source Files Generating Error Message: cs_LogSend.c, cs_Msg.c, logcm_format_rechdr.c, logc_read_msg.c, logd_format.c, logd_proc_msg.c
Problem Description: A record type other than ALARM, EVENT, REQUEST, SECURITY, ACCOUNTING, DEBUG, TRACE, or STATUS was detected. The invalid log record will not be logged.
System Action: None. The servers will continue to execute.
Administrator Action: None.

LOGC0585 **Socket read timed out**

Source Files Generating Error Message: logc_read_msg.c
Problem Description: A read on the socket used to read log messages from HPSS servers timed out.
System Action: The Log Client will output a message and continue executing.
Administrator Action: None, other than report the problem.

LOG_0590 **Invalid log message type detected: %u**

LOGC0590 **Invalid log message type detected: %u**

LOGD0590 **Invalid log message type detected: %u**

Source Files Generating Error Message: cs_Msg.c, logcm_format_rechdr.c, logd_proc_request.c
Problem Description: An invalid message type was detected for a log record. For ALARMs, a type other than SERVICE_DEGRADATION, SECURITY_VIOLATION, SOFTWARE_ERROR, HARDWARE_ERROR, COMMUNICATION_ERROR, or THRESHOLD was detected. For EVENTs, a type other than OBJECT_CREATION, OBJECT_DELETION, OPERATION_INITIATION, OPERATION_COMPLETION, or OTHER_EVENT was detected. For REQUESTs, a type other than TEXT_REQUEST, IOD_REQUEST, or IOR_REQUEST was detected.
System Action: The invalid message will be ignored.
Administrator Action: None.

LOGD0591 **(INVALID REC/MSG COMBINATION)**

Source Files Generating Error Message: cs_Msg.c

Problem Description: A discrepancy was detected between the log record type and the log message type.
System Action: The above string will be appended to the log message with the record/message type mismatch.
Administrator Action: Report the error to HPSS development so the mismatch can be corrected.

LOGD0607 Log file close failed

Source Files Generating Error Message: logd_switch_logfiles.c
Problem Description: A close of the current log file failed.
System Action: The Log Daemon will terminate.
Administrator Action: Restart the Log Daemon.

Chapter 12. Location Server (LSRV Series)

LSRV0100 Failed to initialize signals (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Location Server could not set up signal handler. This error should not occur.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server. If this error persists, contact HPSS support.

LSRV0101 Failed to initialize DB manager (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Location Server could not set up connection to database through mmlib. This error should not occur.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server. If this error persists, contact HPSS support.

LSRV0102 Failed to initialize configuration (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server failed to initialize its own cache.
System Action: The Location Server will terminate.
Administrator Action: The LS and/or LS Policy may be misconfigured. Check this in SSM and, if needed, check DB2. Restart the Location Server.

LSRV0103 Failed to register interfaces (<interface>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to initialize location server interface with HPSS rpc service.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server. If this error persists, contact HPSS support.

LSRV0104 Failed to register interface (<info>)

Source Files Generating Error Message: ls_Main.c, ls_Misc.c
Problem Description: Failed to register <interface> with location server.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server. If this error persists, contact HPSS support.

LSRV0105 Failed to initialize RPC connections (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to initialize RPC connections with HPSS rpc service.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server. If this error persists, contact HPSS support.

LSRV0106 Failed to initialize connection manager (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Couldn't initialize connection manager.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server.

LSRV0107 Fatal error during read lock (<info>)

Source Files Generating Error Message: ls_Lock.c
Problem Description: Failed to obtain a read lock.
System Action: The Location Server will terminate.
Administrator Action: Possible deadlock or software problem. Restart the Location Server, and if problem persists, call HPSS Support.

LSRV0108 Fatal error during write lock (<info>)

Source Files Generating Error Message: ls_LocMap.c, ls_Lock.c
Problem Description: Failed to obtain write lock.
System Action: The Location Server will terminate.
Administrator Action: Possible deadlock or software problem. Restart the Location Server, and if problem persists, call HPSS Support.

LSRV0109 Out of memory (object: <info>)

Source Files Generating Error Message: ls_Connect.c, ls_LocMap.c
Problem Description: Failed system malloc() call, meaning that something is wrong with the available memory of the system.
System Action: The Location Server will terminate.
Administrator Action: Resolve memory limitation problem on the system.

LSRV0110 Failed to initialize a pthread cond var (<info>)

Source Files Generating Error Message: ls_Lock.c, ls_Misc.c
Problem Description: Failed to initialize a conditional variable for threads.
System Action: The Location Server will terminate.
Administrator Action: Fix system threads problem and restart the Location Server.

LSRV0111 Fatal to destroy a pthread cond var (<lock name>)

Source Files Generating Error Message: ls_Lock.c, ls_Misc.c
Problem Description: An unexpected error occurred while trying to destroy a thread related conditional variable.
System Action: The Location Server will terminate.

Administrator Action: Restart the Location Server, and if problem persists, contact HPSS Support.

LSRV0112 Failed to signal a pthread cond variable (<info>)

Source Files Generating Error Message: ls_Connect.c, ls_LocMap.c, ls_Lock.c, ls_Main.c, ls_Misc.c
Problem Description: Failed to signal a condition variable. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0113 Failed to broadcast on a cond var (<info>)

Source Files Generating Error Message: ls_Connect.c, ls_Lock.c
Problem Description: Failed to broadcast a signal to a condition variable. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0114 Failure waiting on a timed cond var (<info>)

Source Files Generating Error Message: ls_Connect.c, ls_LocMap.c, ls_Lock.c, ls_Misc.c
Problem Description: A timed wait on a condition variable failed. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0115 Failed to initialize a pthread mutex (<info>)

Source Files Generating Error Message: ls_Main.c, ls_Lock.c, ls_Misc.c
Problem Description: Failed to initialize a mutex. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0116 Failed to destroy a pthread mutex (<info>)

Source Files Generating Error Message: ls_Lock.c, ls_Misc.c
Problem Description: Failed to destroy a mutex. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0117 Failed to lock a pthread mutex (<info>)

Source Files Generating Error Message: Various
Problem Description: Failed to lock a mutex lock. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0118 Failed to unlock a pthread mutex (<info>)

Source Files Generating Error Message: Various
Problem Description: Failed to unlock a mutex lock. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0119 Failed to create a new thread (<info>)

Source Files Generating Error Message: ls_Interface.c, ls_LocMap.c, ls_Misc.c
Problem Description: Failed to create a new pthread. This may indicate a possible out of memory condition, otherwise this error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Check for a possible out of memory condition. Otherwise, contact HPSS support. Restart the Location Server.

LSRV0120 Failed to setup a timed interval (<info>)

Source Files Generating Error Message: ls_Common.c, ls_Connect.c, ls_Lock.c, ls_Misc.c
Problem Description: Failed to compute a fatal time interval before waiting on a condition variable. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0121 Failed to join with a thread (<info>)

Source Files Generating Error Message: ls_LocMap.c, ls_Misc.c
Problem Description: Failed to join with a child pthread. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0123 Invalid Request control block (<info>)

Source Files Generating Error Message: ls_Interface.c
Problem Description: An incoming request control block was corrupted. This error should never occur. This denotes a coding or memory corruption error.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0124 Invalid Request Type (<info>)

Source Files Generating Error Message: ls_Interface.c
Problem Description: An invalid request type was encountered in a request control block. This error should never occur. This denotes a coding or memory corruption error.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0125 Invalid Lock Pointer (<info>)

Source Files Generating Error Message: ls_Lock.c
Problem Description: Attempted to lock/unlock a NULL or uninitialized lock. This error should never occur and denotes a coding or memory corruption error.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0126 Invalid HPSS Installation UUID (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A uuid denoting an HPSS site is corrupt. This error should never occur and denotes a coding or memory corruption error.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0127 Invalid UUID in cache (<info>)

Source Files Generating Error Message: ls_LocMap.c, ls_Interface.c
Problem Description: A cached uuid denoting an HPSS server is corrupt. This error should never occur and denotes a coding or memory corruption error.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0128 Failed to initialize location map (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: Failed to initialize the location map cache during startup/reinitialization. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: View the log for any recently reported error. Restart the Location Server.

LSRV0129 Failed to read locmaps at startup (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: Failed to read general server configuration entries during startup/reinitialization despite multiple tries.
System Action: The Location Server will terminate.
Administrator Action: Make sure the Location Server is configured to read general server configuration metadata entries and that DB2 is working properly. Restart the Location Server.

LSRV0130 SERVER ABORTING DUE TO PREVIOUS FATAL ERROR(<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server is aborting due to a previously report fatal error.
System Action: The Location Server will terminate.

Administrator Action: View the error log to determine why the Location Server is aborting.

LSRV0131 Failed to read policy info (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server policy metadata record could not be read during startup/ reinitialization.
System Action: The Location Server will terminate.
Administrator Action: Make sure the Location Server policy metadata record has been created. Also make sure the Location Server is allowed to read the metadata file and that DB2 is running properly. Restart the Location Server.

LSRV0132 Can't add server to rpcgroup (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to register Location Server endpoints.
System Action: The Location Server will terminate.
Administrator Action: Make sure the Location Server realm and site names are correct. Make sure the configured authorization mechanism is working properly. Restart the Location Server.

LSRV0133 Inconsistent LocMap Table (<info>)

Source Files Generating Error Message: ls_Interface.c
Problem Description: The Location Map Cache changed while a read lock was held. This error should never occur and denotes a coding or memory corruption error.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0134 Can't destroy site table (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: During shutdown/reinitialization, the remote site table was busy and could not be destroyed.
System Action: The Location Server will terminate.
Administrator Action: During shutdown, no action is needed. During reinitialization, restart the Location Server.

LSRV0135 Invalid SiteId for this site (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The HPSS site id for the local site has an invalid format.
System Action: The Location Server will terminate.
Administrator Action: Make sure the local site's UUID has been defined properly on the Location Server Policy record. Restart the Location Server.

LSRV0136 SiteId for this site is NIL (<info>)

Source Files Generating Error Message: ls_Main.c

Problem Description: The HPSS site id for the local site is zero.
System Action: The Location Server will terminate.
Administrator Action: Fill in the local site's UUID on the Location Server Policy record. Restart the Location Server.

LSRV0137 Long outstanding request. Reinit Failed (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: During reinitialization, a client request did not complete within the timeout period. Reinitialization could not be completed and the Location Server will terminate to allow a server restart.
System Action: The Location Server will terminate.
Administrator Action: Restart the Location Server.

LSRV0138 Exiting due to bad Root CS configuration (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: During startup/reinitialization, a unique root Core Server configuration could not be found. Either there are none defined or more than one defined.
System Action: The Location Server will terminate.
Administrator Action: Make sure there is one and only one root Core Server defined. Restart the Location Server.

LSRV0139 Failed to create mutex attributes (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to create mutex attributes. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0140 Failed to set non-recursive mutex attrs (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to default mutex attributes to non-recursive. This error should never occur.
System Action: The Location Server will terminate.
Administrator Action: Contact HPSS support and restart the Location Server.

LSRV0141 Failed to initialize server (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to perform general HPSS server initialization.
System Action: The Location Server will terminate.
Administrator Action: Make sure the Location Server is configured properly and that it has access to an entry in the server keytab file.

LSRV0142 Failed to set thread specific data key (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to create the pthread thread specific data key. This error should never occur. It may denote an out of memory condition.
System Action: The Location Server will terminate.
Administrator Action: Determine if the error denotes an out of memory condition (ENOMEM or EAGAIN). If it is not, contact HPSS support. Restart the Location Server.

LSRV0143 Can’t get local realm info (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Can’t get information about the local realm.
System Action: The Location Server will terminate.
Administrator Action: Make sure the local realm information has been setup properly, and restart the Location Server.

LSRV0144 Can’t initialize server state service (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: Failed to initialize the HPSS server state manager. This may denote an out of memory condition.
System Action: The Location Server will terminate.
Administrator Action: Determine if the error denotes an out of memory condition. If not, contact HPSS support and restart the Location Server.

LSRV0145 Can’t get LS endpoints (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server endpoints are unretrievable.
System Action: Does not seem to terminate Location Server; just doesn’t add endpoint.
Administrator Action: Make sure the Location Server endpoints exist, and restart the Location Server.

LSRV0300 Assertion Failed: <expression>

Source Files Generating Error Message: Various
Problem Description: Denotes an internal inconsistency. This error should never occur.
System Action: None. The Location Server will continue.
Administrator Action: Report the error to HPSS support and recycle the Location Server.

LSRV0301 A lock timed out (<lock name>)

Source Files Generating Error Message: ls_Lock.c
Problem Description: An attempt to lock the specified lock timed out. This error should be very rare. It may denote a very loaded server.

System Action: If this occurs during a user request, the request is dropped and must be retried. If this occurs at any other time, the Location Server will terminate.
Administrator Action: If the server terminates due to this error, contact HPSS support. If the server continues to run, view the logs to determine if the Location Server is under heavy load. Consider replicating the server if this is the case.

LSRV0302 Invalid Server UUID in Config MData (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A poorly formatted server uuid was encountered while reading server configurations.
System Action: The server information represented by the uuid will not be put into the location map cache until the problem is fixed.
Administrator Action: Fix the bad uuid with SSM. The maps will be reread periodically so recycling the Location Server is not needed.

LSRV0303 Nil Server UUID in Config Metadata (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A zero (nil) server uuid was encountered while reading server configurations.
System Action: The server information represented by the uuid will not be put into the location map cache until the problem is fixed.
Administrator Action: Fill in the server's uuid with SSM. The maps will be reread periodically so recycling the Location Server is not needed.

LSRV0304 Bad UUID returned from remote LS server (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: An invalid uuid was returned for a remote Location Server. The maps may have been corrupted in transit. This error should be very rare.
System Action: All of the location map information returned is ignored. The information will be rerequested at a later time.
Administrator Action: None. If this error persists, contact the remote site's administrator.

LSRV0305 Can't remove LS from rpcgroup in realm (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: During shutdown/restart, the Location Server could not be removed from the Location Server RPC Group.
System Action: None. The Location Server continues to shutdown.
Administrator Action: See if the RPC group has been altered or destroyed since the Location Server last started up. If this error persists, contact HPSS support.

LSRV0306 Inconsistent hash of remote map (<info>)

Source Files Generating Error Message: ls_LocMap.c

Problem Description: A remote location map hashed to a local map. This is most likely a misconfiguration problem
System Action: The map encountered is ignored until this problem is fixed. It will be periodically rechecked.
Administrator Action: Make sure the UUID on the Location Policy screen is not also defined as a remote site in the Remote Site metadata. If it is, remove it from the remote site file and restart/reinitialize the Location Server.

LSRV0307 Zero local cell id, remote sites ignored (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The local cell id is specified as zero. Remote sites can not be contacted while this problem exists.
System Action: All remote sites are ignored. The Location Server acts as if none exist.
Administrator Action: Make sure your assigned site's local cell identifier is valid and then restart the Location Server. Other servers will probably need to be restarted as well, such as the Core Server

LSRV0308 Remote LS returned invalid RealmId (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A remote Location Server returned an invalid realm id.
System Action: The Location Server will ignore all location maps returned by this site until the problem is corrected.
Administrator Action: Contact the administrator at the remote HPSS site and have them fix their cell identifier and then restart their Location Server

LSRV0309 Can't get trusted realm info for <site>

Source Files Generating Error Message: ls_LocMap.c
Problem Description: Couldn't obtain information about the specified site from the trusted realm.
System Action: During startup the Location Server will act as if servers from this site do not exist. If the Location Server has successfully contacted the site in the past, the Location Server will continue to use the old information it has about the site for a period of time
Administrator Action: Make sure the remote site is running. Make sure the local trusted realm has been set up properly for the remote site specified

LSRV0310 Invalid realm id from trusted realm for <site>

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The remote site specified has a zero realm id or the realm id is the same as the local site's realm id.
System Action: The location server will not attempt to contact the remote Location Server until this problem is resolved.
Administrator Action: Make sure the realm ids of the local and remote site have been set to the assigned realm ids.

LSRV0326 Having trouble reading local maps (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server is having trouble reading all of the location maps into the cache. This is most likely a communication related problem.
System Action: If on startup, the Location Server may terminate.
Administrator Action: View the log. A previous message should be recorded which will help to determine the underlying cause. If this error occurs during startup, the location server will be unable to process requests until the problem ceases.

LSRV0327 Reading local maps problem cleared (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The previous problem reading location maps has cleared up.
System Action: None. The maps have been reread successfully.
Administrator Action: None.

LSRV0328 Server is under heavy load (<info>)

Source Files Generating Error Message: ls_Misc.c
Problem Description: The Location Server is under heavy request load.
System Action: The server will reject requests above its thread limit. Clients will attempt to rebind to replicated Location Servers, if available.
Administrator Action: Consider replicating another Location Server.

LSRV0329 Cleared heavy load condition (<info>)

Source Files Generating Error Message: ls_Misc.c
Problem Description: The previously reported heavy load condition has ceased.
System Action: None.
Administrator Action: You should look through the log to determine when the heavy load condition started. If it lasted for more than a few minutes, consider replicating the Location Server.

LSRV0400 Failed to set up a timed interval (<info>)

Source Files Generating Error Message: ls_Lock.c
Problem Description: Failed to calculate a time interval to wait on a condition variable. This error should never occur.
System Action: The Location Server continues to run in degraded mode.
Administrator Action: Contact HPSS support.

LSRV0401 Trouble connecting to SSM (<info>)

Source Files Generating Error Message: ls_Connect.c
Problem Description: Failed to contact SSM after repeated attempts. Server statistic updates will be dropped and resent. Server state updates will be accumulated and resent.
System Action: The Location Server will continue to try to contact SSM.

Administrator Action: Make sure SSM is running.

LSRV0402 A bad UUID was received (<info>)

Source Files Generating Error Message: ls_Interface.c, ls_LocMap.c
Problem Description: A UUID with an invalid format was detected. This error should never occur.
System Action: In certain cases, this error is fatal and the Location Server will terminate. In other cases, the Location Server will ignore the location map passed to it until the problem is fixed.
Administrator Action: If the server terminates due to the error, contact HPSS support. Locate and fix the bad uuid.

LSRV0403 Failed to get a database transaction handle (<info>)

Source Files Generating Error Message: ls_LocMap.c, ls_Main.c
Problem Description: Could not obtain a transaction handle against a database.
System Action: Normally this operation is retried several times. If it still fails, the Location Server terminates with an error.
Administrator Action: Make sure the database is up and running. Restart the Location Server.

LSRV0404 Failed to free a database transaction handle (<info>)

Source Files Generating Error Message: ls_LocMap.c, ls_Main.c
Problem Description: Could not free a transaction handle against a database.
System Action: In most cases, the Location Server will terminate with an error.
Administrator Action: Make sure the database is operational. Restart the Location Server.

LSRV0405 Can’t read location maps from metadata (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server is having trouble reading the location map information.
System Action: This error increases in severity over time. If it occurs too many times in a row during startup/ reinitialization, the Location Server terminate. Otherwise, the Location Server will continue process requests with the information already stored in its cache.
Administrator Action: Make sure the database is running and that the Location Server has read access to the general server configuration table.

LSRV0406 Can’t get maps from remote location server (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server is having trouble obtaining location map information from a Location Server located at a remote site.
System Action: The Location Server will continue to process requests with the information already stored in its cache. If this occurs during startup, the Location

Server will wait around for a few minutes for the remote site to come up. If it is still unavailable, the Location Server will start processing requests and act as if the remote site does not exist until it can be contacted.
Administrator Action: If this problem persists, make sure the remote Location Server is running and that it has been configured as a valid Remote Site. Recycle the Location Server as needed.

LSRV0407 Cleared get maps problem with remote LS (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The previous error condition reading remote location maps information has cleared up.
System Action: The Location Server repairs its state.
Administrator Action: None.

LSRV0408 Too many Root CSs in config metadata (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: There are too many root Core Servers configured.
System Action: If this occurs during startup, the Location Server will terminate. Otherwise, the Location Server will continue to operate with the location map information already in its cache.
Administrator Action: Make sure there is only one root Core Server defined and executable.

LSRV0409 No local Root CS found in config metadata (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: There are no root Core Servers configured.
System Action: If this occurs during startup, the Location Server will terminate. Otherwise, the Location Server will continue to operate with the location map information already in its cache.
Administrator Action: Make sure there is one and only one root Core Server defined and executable.

LSRV0410 Can’t create any background map threads (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: No worker threads could be created to gather remote location map information. This error should never occur.
System Action: The Location Server will continue to operate in degraded mode. Remote location map requests will be serviced with information already in the Location Server’s cache.
Administrator Action: Contact HPSS support. Recycle the Location Server when convenient.

LSRV0411 A background map thread returned an error (<info>)

Source Files Generating Error Message: ls_LocMap.c

Problem Description: An error was returned from a location map worker thread.
System Action: None.
Administrator Action: View the log for a previous error that may have caused this message. If the error is communication related, most likely the Location Server is having trouble contacting a remote Location Server.

LSRV0412 Call to sigwait() failed (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server's signal thread failed to wait for signals. This error should never occur.
System Action: The error is ignored and the call is retried.
Administrator Action: Contact HPSS support.

LSRV0413 Unknown signal ignored (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server's signal thread received an unknown signal. This error should never occur.
System Action: The signal is ignored.
Administrator Action: Contact HPSS support.

LSRV0414 Site still in use, will retry removal (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server failed to remove a site from the remote site table. This can be caused by a long remote request to that site.
System Action: The site is left in the table. It will be removed later.
Administrator Action: During shutdown/reinitialization, there is nothing to do. This can occur during normal operation usually as a warning if someone has removed the site with SSM, but an active request was found for that site.

LSRV0415 Invalid Admin State received from SSM (<info>)

Source Files Generating Error Message: ls_Interface.c
Problem Description: An invalid administrative state change was received from SSM during a server set attributes call.
System Action: The request is ignored and an error is returned to SSM.
Administrator Action: Make sure the SSM and LS binaries are compatible. If possible, remake them. If they are compatible, contact HPSS support.

LSRV0416 Can't read site metadata file (<error message>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: An error occurred while attempting to read the remote site metadata table.
System Action: The system will be unable to handle remote site requests properly until the problem is fixed.

Administrator Action: Take appropriate action based on the database error message. Make sure that the remote site metadata table exists and can be accessed by the location server.

LSRV0417 Can’t insert LocMap. Bad server UUID. (<server>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The location map information for the specified server was found to have a corrupted server UUID.
System Action: The location map will not be inserted into the location map cache. If information already exists for this server in the cache, it will continue to be used.
Administrator Action: Verify that the server’s general server config contains a valid UUID. If so, contact HPSS support.

LSRV0418 Can’t insert LocMap. Bad HPSS id. (<server>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The location map information for the specified server was found to have a corrupted HPSS site identifier UUID.
System Action: The location map will not be inserted into the location map cache. If information already exists for this server in the cache, it will continue to be used.
Administrator Action: Verify that the server’s site has a valid UUID entered into both the Location Policy at the appropriate site. If so, contact HPSS support.

LSRV0419 Background LocMap update timed out (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: Background location map worker threads took too long to retrieve remote location map information.
System Action: The worker threads are terminated and the remaining sites will not be contacted. Existing information in the location map cache will continue to be used until these sites can be contacted.
Administrator Action: Determine if there is a communication related problem to one or more of the remote Location Servers. If not, you may want to increase the maximum number of location map worker threads in the Location policy.

LSRV0420 An invalid site has been configured (site <sitename>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A remote site metadata record is invalid or incomplete.
System Action: The remote site represented by this record will not be contacted.
Administrator Action: Fix the remote site information in SSM.

LSRV0421 Re-established communication to <server>

Source Files Generating Error Message: ls_Connect.c
Problem Description: A previous communication problem related to the specified server has been fixed.

System Action: The degraded communication state of the Location Server is marked repaired if no other communication problems exist.
Administrator Action: None.

LSRV0422 Cleared previous LocMap timeout problem (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A previous problem gathering remote location map information has cleared up.
System Action: The degraded communication state of the Location Server is marked repaired if no other communication problems exist.
Administrator Action: None.

LSRV0423 Locmap metadata inconsistency cleared (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The previously reported location map metadata inconsistency has cleared up.
System Action: The degraded state of the Location Server is marked repaired if no other problems exist.
Administrator Action: None.

LSRV0424 Cleared Root CS metadata inconsistency (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The previously reported root Core Server inconsistency has cleared up.
System Action: The degraded state of the Location Server is marked repaired if no other problems exist.
Administrator Action: None.

LSRV0425 Cleared Site table problem (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A previous problem reading site metadata has cleared up.
System Action: The degraded state of the Location Server is marked repaired if no other problems exist.
Administrator Action: None.

LSRV0426 Local site does not match LS Policy (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The local site defined as a HPSS remote site does not match the local site information in the Location Policy record.
System Action: The metadata record is ignored.
Administrator Action: Remove the local site from the HPSS remote site file. It is not needed.

LSRV0427 One or more remote LSs are down since startup (<info>)

Source Files Generating Error Message: ls_Misc.c
Problem Description: Since the Location Server was started/reinitialized, it has been unable to contact one or more remote Location Servers. It will be unable to process requests properly for the unreachable sites.
System Action: The Location Server will now allow incoming client requests to continue.
Administrator Action: Make sure all of the remote Location Servers are, accessible, and that they have entries in the Remote HPSS Site metadata file.

LSRV0428 Cleared startup remote LS comm problem (<info>)

Source Files Generating Error Message: ls_Misc.c
Problem Description: The previous problem of contacting remote Location Servers has cleared up. All defined remote Location Servers have now been contacted.
System Action: The Location Server state is repaired if no other communication problems exist.
Administrator Action: None.

LSRV0429 No remote maps returned (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: No location maps were returned from a remote Location Server. This error should never occur.
System Action: The existing maps for the site will be retained in the Location Server’s cache.
Administrator Action: Make sure there is no communication related problem to the remote site and that the remote site is running properly. Report this error to HPSS support.

LSRV0430 Failed to close a cursor in metadata table (<table name>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server failed to close a cursor on a certain database table.
System Action: The amount of allowed cursors on this table and for the Location Server is reduced by one.
Administrator Action: Make sure there is no known problem with the database. Consider restarting the Location Server.

LSRV0431 Select statement failed in metadata table (<table name>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server was unable to issue a SQL select statement against the given table.
System Action: The information needed by the Location Server was not saved in the cache. The operation requested by the client will not succeed.
Administrator Action: Ensure no known problem exists with the database. Consider restarting the Location Server. If problem persists, notify HPSS support.

LSRV0432 Caller not authorized (<info>)

Source Files Generating Error Message: ls_Connect.c
Problem Description: Invalid credentials supplied.
System Action: The attempt to call is recorded and the operation fails.
Administrator Action:

LSRV0501 Initializing Location Server (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server initialization has begun.
System Action: None.
Administrator Action: None.

LSRV0502 Location Server is ready (<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server initialization is complete. Note that client requests may not be allowed for several minutes if one or more Bitfile Servers or remote Location Servers are down.
System Action: None.
Administrator Action: None.

LSRV0503 Server reinitialization started (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server reinitialization has begun.
System Action: None.
Administrator Action: None.

LSRV0504 Server reinitialization complete (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server reinitialization is complete. Note that client requests may not be allowed for several minutes if one or more Bitfile Servers or remote Location Servers are down.
System Action: None.
Administrator Action: None.

LSRV0505 Server Halting quickly (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server is starting a quick shutdown.
System Action: The Location Server will terminate.
Administrator Action: None.

LSRV0506 Starting slow shutdown (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server is starting a normal shutdown.

System Action: The Location Server will terminate.
Administrator Action: None.

LSRV0507 Server Shutdown Complete (<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The Location Server has finished a normal shutdown and is exiting.
System Action: The Location Server will terminate.
Administrator Action: None.

LSRV0508 Local realm id is zero in trusted realm table(<info>)

Source Files Generating Error Message: ls_Main.c
Problem Description: The local realm is zero in the trusted realm table.
System Action: None.
Administrator Action: The Location Server will run properly for local realm operations. Other servers, such as the Core Server require the local realm id to be non-zero. You should set up the realm id in the Trusted Realm Table to your assigned realm id, and then restart the Location Server.

LSRV0509 Loading initial map information(<info>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server has started loading local and remote location map information.
System Action: None. Client requests will be processed once this information has been loaded
Administrator Action: None.

LSRV0600 Entering API: <API name>

Source Files Generating Error Message: ls_Interface.c
Problem Description: The specified API RPC request is starting
System Action: None.
Administrator Action: None.

LSRV0601 Leaving API: <API name>

Source Files Generating Error Message: ls_Interface.c
Problem Description: The specified API RPC request is finished
System Action: None.
Administrator Action: None.

LSRV0700 Reading Remote Maps (<rpcgroup name>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The Location Server is starting to reread remote location maps from a location server in the specified rpcgroup.
System Action: None.

Administrator Action: None.

LSRV0701 New Remote LS Connection (<rpcgroup name>)

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A new remote Location Server was noticed by the Location Server in the Remote HPSS Site metadata file. The Location Server is establishing a connection to the new server.
System Action: None.
Administrator Action: None.

LSRV0702 Removing (<site name>) from site table

Source Files Generating Error Message: ls_LocMap.c
Problem Description: A site has been removed from the cache.
System Action: None.
Administrator Action: None.

LSRV0703 LocMap Information: <action>

Source Files Generating Error Message: ls_LocMap.c
Problem Description: The specified action is taking place. Location maps are either starting to be loaded or have just finished loading in.
System Action: None.
Administrator Action: None.

LSRV0704 Bad rpc protection level (<info>)

Source Files Generating Error Message: ls_Connect.c
Problem Description: An invalid rpc protection level is detected from the client.
System Action: The request is returned with a permission error.
Administrator Action: None.

Chapter 13. Mover Error Messages (MOVR Series)

MOVR0001 async read operation (aio_read) failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: The Mover could not start an asynchronous read operation from a device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0002 async write operation (aio_write) failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: The Mover could not start an asynchronous write operation to a device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0003 Device ID <device ID> out of range

Source Files Generating Error Message: various
Problem Description: A request specified a device identifier that is out of the range of valid device identifiers.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and cause of invalid device identifier.

MOVR0004 Device <device ID> not configured

Source Files Generating Error Message: various
Problem Description: A request specified a device identifier that does not correspond to a device that is configured for the Mover.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and cause of invalid device identifier.

MOVR0005 Invalid SelectionFlags <specified value>

Source Files Generating Error Message: mvr_admif.c, mvr_devattr.c

Problem Description: A request specified an invalid value for the SelectionFlags parameter.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and cause of invalid selection flags.

MOVR0006 Change of unsettable dev attr,SelFlags = <specified value>

Source Files Generating Error Message: mvr_admif.c, mvr_devattr.c
Problem Description: A request to set device object attributes specified changing an unsettable attribute.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and cause of invalid selection flags.

MOVR0007 Invalid device attribute value: attr <attribute ID>, value <specified value>

Source Files Generating Error Message: mvr_admif.c, mvr_devattr.c
Problem Description: A request to set device object attributes specified an invalid attribute value.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and cause of invalid attribute value.

MOVR0008 Bad request specific info type: subfunc <sub function>, type <specified type>

Source Files Generating Error Message: various
Problem Description: A device-specific request contained an information type that was invalid for the operation requested.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid information type.

MOVR0009 Bad device specific subtype: <specified sub-type>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: A device-specific request contained an invalid request sub-type.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid subtype.

MOVR0010 Device <device ID> is not currently open

Source Files Generating Error Message: various
Problem Description: A request that requires a device to have previously been opened was attempted on a device that had not previously been opened.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the request being made when the device was not open.

MOVR0011 Error reading device <device ID>, vol <volume ID>, sec <section>, off <section offset>

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An error was encountered while reading data from a device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the request was for a valid data position. Run **"errpt"** on the suspected node and check to see if a "TAPE DRIVE FAILURE" entry exists. This indicates an unrecoverable error. Have the CE check the drive for problems or make sure that the drive has been regularly cleaned with a cleaning cartridge.

MOVR0012 Error writing device <device ID>, vol <volume ID>, sec <section>, off <section offset>

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An error was encountered while writing data to a device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the request was for a valid data position (for sequential media, this error may be generated at end-of-media).

MOVR0013 Tape <device ID> in unwritable position, vol <volume ID>, sec <section>, off <section offset>

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An attempt was made to write to a tape at an invalid position.
System Action: The current request is aborted and an error indication is returned to the client specification.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0014 Tape <device ID> in unreadable position, vol <volume ID>, sec <section>, offs <section offset>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt was made to read from a tape at an invalid position.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0015 Absolute addressing not supported on device <device ID>, type <device type>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt was made to perform absolute positioning on a device that does not support absolute positioning.
System Action: This message is logged, and the tape is position using the relative positioning information provided.
Administrator Action: Verify that the device is configured to support absolute positioning and that the Mover was built with any required device specific interface code enabled. If the device and Mover are properly configured, determine the source of the request, and the cause of the invalid request specification.

MOVR0016 Open of device <device ID> (<device name>) failed

Source Files Generating Error Message: mvr_disk.c, mvr_tape.c
Problem Description: An attempt to access a device could not be satisfied because the device file could not be opened.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the correct device name is configured for the drive and that the user ID under which the Mover is running has read and write access to the device.

MOVR0017 Rewind of device <device ID> failed

Source Files Generating Error Message: mvr_tape.c
Problem Description: A tape rewind operation failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0018 Read of label on device <device ID> failed, ret = <return code>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to read the media volume label failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0019 Verification of label on dev <device ID> failed: <volume ID on media> and <specified volume ID>

Source Files Generating Error Message: mvr_disk.c, mvr_tape.c

Problem Description: The volume label specified did not match the volume label written on the media.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0020 Unload of device <device ID> failed

Source Files Generating Error Message: mvr_tape.c
Problem Description: An unload operation failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0021 Forward space file on device <device ID> failed, count = <filemark count>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to position a tape forward a number of tape marks failed.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium, verify that the target position is a valid data position.

MOVR0022 Reverse space file on device <device ID> failed, count = <filemark count>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to position a tape backward a number of tape marks failed.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium, verify that the target position is a valid data position.

MOVR0023 Header read on device <device ID>, volume <volume ID>, section <section> failed, ret = <return code>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to read a tape section header failed.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium, verify that the target position is a valid data position.

MOVR0024 Forward space record on device <device ID> failed, count = <block count>

Source Files Generating Error Message: mvr_tape.c

Problem Description: An attempt to position a tape forward a number of blocks failed.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium, verify that the target position is a valid data position.

MOVR0025 Label write on device <device ID> failed, ret = <return value>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to write a volume label failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium (for sequential media, this error may be generated at end-of-media).

MOVR0026 Header write on device <device ID>, volume <volume ID>, section <section> failed, ret = <return code>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to write a tape section header failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium (for sequential media, this error may be generated at end-of-media).

MOVR0027 Tape mark write on device <device ID>, vol <volume ID> failed

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to write a tape mark failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium (for sequential media, this error may be generated at end-of-media).

MOVR0028 Attempt to obtain timer expiration date failed

Source Files Generating Error Message: mvr_.admmainc
Problem Description: A request to obtain the time at which the timer is to periodically notify the HPSS Storage System Manager of the current state of the Mover failed.
System Action: The Mover terminates.
Administrator Action: Internal Mover Error. Report to HPSS Support.

MOVR0029 DD2 set blocksize failed for device <device ID>, vol <volume ID>, blocksize = <block size>

Source Files Generating Error Message: mvr_tape.c

Problem Description: An attempt to set the current blocksize of an Ampex DD-2 tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0030 Error getting position on DD2 tape <device ID>, vol <volume ID>, sec <section>, block <section block>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to query the current position of an Ampex DD-2 tape failed.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium.

MOVR0031 Error positioning DD2 tape <device ID>, vol <volume ID>, sec <section>, off <section offset>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to position an Ampex DD-2 tape failed.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium, verify that the target position is a valid data position.

MOVR0032 Could not get tape absolute position for dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to query the current absolute position of a tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0033 IPI-3 I/O (ipi3_slave_async_io) failed, name <client name>, TID <transfer ID>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to transfer data via IPI-3 failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer and that the IPI-3 configuration is correct. If so, perform IPI-3 problem determination.

MOVR0034 IPI-3 data transfers not currently supported by mover

Source Files Generating Error Message: various
Problem Description: A request specified an IPI-3 address, however the Mover does not support IPI-3 transfers.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: If IPI-3 over HIPPI is supported on the node on which the Mover is running, that Mover must be built with IPI-3 support enabled.

MOVR0035 Disk array flush failed for device <device ID>

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An attempt to data to a device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0036 Raidzone flush failed for device <device ID>, offset <device offset>, length <size>

Source Files Generating Error Message: mvr_disk.c
Problem Description: A raidzone request failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0037 Invalid source/sink reply list in IOR

Source Files Generating Error Message: mvr_iodior.c
Problem Description: An invalid source/sink reply list was detected while freeing memory allocate to an IOR.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0038 Invalid request specific reply in IOR

Source Files Generating Error Message: mvr_iodior.c
Problem Description: An invalid request specific reply entry was detected while freeing memory allocated to an IOR.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0039 Invalid function <specified function> specified in IOD

Source Files Generating Error Message: various
Problem Description: A request specified an unrecognized function.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0040 Invalid shared memory id <shared memory ID>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: The Mover TCP/IP listen process was started with an invalid shared memory identifier.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error, contact the HPSS support representative.

MOVR0041 Could not bind to address <IP address>, port <port number>

Source Files Generating Error Message: mvr_misc.c
Problem Description: The Mover TCP/IP listen process could not create the listen port with the address specified in the Mover's configuration metadata.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the Mover is already running.

MOVR0042 No available request table slots

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: A request could not be satisfied because the Mover request table is full.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the cause for the large number of outstanding Mover operations.

MOVR0043 Could not receive IOD

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An error was detected while attempting to receive an IOD.
System Action: The IOD is ignored.
Administrator Action: Determine the source of the invalid IOD or the system error causing the failure of the Mover to receive it.

MOVR0044 Could not send IOR

Source Files Generating Error Message: mvr_lstntsk.c, mvr_prot.c
Problem Description: An error was detected while attempting to send an IOR.
System Action: None.
Administrator Action: Determine the client receiving the IOR and verify that the request is still outstanding.

MOVR0045 Could not allocate memory for IOR

Source Files Generating Error Message: mvr_lstntsk.c

Problem Description: Memory could not be allocated to hold the status of a request.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0046 Bad request slot <request slot number>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: The Mover detected an invalid request table slot number.
System Action: None.
Administrator Action: Internal Mover error, contact the HPSS support representative.

MOVR0047 Bad IP port: <port number>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: The Mover TCP/IP listen port was started with an invalid TCP/IP port number.
System Action: The Mover terminates execution.
Administrator Action: Verify that the Mover configuration metadata is correct.

MOVR0048 Source/Sink offset mismatch, mover offset <transfer offset>

Source Files Generating Error Message: mvr_srcsink.c
Problem Description: A transfer offset specified in the Mover side of a transfer had no corresponding entry on the client side of a transfer.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0049 Invalid stripe address at mover offset <transfer offset>, <src/sink descriptor offset>

Source Files Generating Error Message: mvr_srcsink.c
Problem Description: A Mover side stripe address contained an invalid offset.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0050 Invalid address type: <specified address type>

Source Files Generating Error Message: various
Problem Description: A request specified an invalid address type.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0051 Invalid source/sink descriptor list length

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: A request specified a negative source/sink descriptor length.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0052 Zero source/sink descriptor length

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: A request specified a source/sink descriptor length of zero.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0053 Invalid device stripe list length: <specified length>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: A request specified an invalid device stripe list length (!= 1).
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0054 Stripe parms out of range: BS <stripe block size>, Width <stripe width>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: A request specified stripe parameters that would make the arithmetic needed to process the stripe impossible.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0055 Hit end of source/sink list, length was <list length>, found <specified length>

Source Files Generating Error Message: various
Problem Description: A request specified a source/sink list that contained less entries than indicated by the specified list length.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0056 Verification of IOD failed

Source Files Generating Error Message: various
Problem Description: A request specified an invalid IOD. A previous message indicates the specific error.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0057 Attempt to obtain device failed

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to gain control of a device failed. A previous message indicates the specific error.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0058 Tape open failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to open a tape device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0059 Tape close failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to close a tape device failed.
System Action: None.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0060 Tape position failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: various
Problem Description: An attempt to change the position of a tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0061 Tape read failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to initiate a read for a tape failed.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0062 Tape write failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to initiate a write for a tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0063 Error calculating next transfer offset, current: <transfer offset>

Source Files Generating Error Message: various
Problem Description: The Mover could not determine the next offset within a transfer for which it is responsible.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0064 Error determining client address, offset: <transfer offset>

Source Files Generating Error Message: various
Problem Description: The Mover could not determine the client address for the next part of a transfer.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0065 Error sending data to client, offset: <transfer offset>

Source Files Generating Error Message: mvr_read.c
Problem Description: An error was encountered while trying to send data to the client.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0066 Error receiving data from client, offset: <transfer offset>

Source Files Generating Error Message: mvr_write.c
Problem Description: An error was encountered while trying to receive data from the client.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0067 Could not initialize MM library: <error message>

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An error was encountered while trying to initialize the database interface.
System Action: The server aborts.
Administrator Action: Internal Mover error, contact the HPSS support representative.

MOVR0068 Unexpected i/o length for device <device ID>: got <returned length>, expected <expected length>

Source Files Generating Error Message: various
Problem Description: The amount of data transferred to or from a device did not match the expected amount.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the target position is a valid data position.

MOVR0069 Block size specified, <specified block size>, does not match current section, <section block size>

Source Files Generating Error Message: mvr_device.c
Problem Description: A write request specified a block size that did not match the block size of the current section.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0070 Begin section failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An error was encountered while trying to initialize a tape section.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0071 End section failed

Source Files Generating Error Message: mvr_asyncio.c, mvr_tape.c

Problem Description: An error was encountered while trying to end a tape section.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0072 Could not query block size: dev <device ID>, vol <volume ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: The Mover could not query the device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0073 GetTransferDescriptor() failed

Source Files Generating Error Message: various
Problem Description: The Mover could not get a handle to use to transfer data to or from a client.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0074 Could not send data to client, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An error was encountered while attempting to send data to a client using PDATA over TCP/IP.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends of the transfer to determine the cause of the failure.

MOVR0075 Could not initialize listen list for pdata push

Source Files Generating Error Message: mvr_write.c
Problem Description: An error was encountered while attempting to initialize the listen list.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends of the transfer to determine the cause of the failure.

MOVR0076 OpenClientConnection() failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not open a data connection to a client.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0077 SocketOpenConnection() failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not create a TCP/IP connection to a client.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends of the transfer to determine the cause of the failure.

MOVR0078 BlockSignal() failed

Source Files Generating Error Message: various
Problem Description: An attempt to block delivery of a signal failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0079 UnBlockSignal() failed

Source Files Generating Error Message: various
Problem Description: An attempt to enable the delivery of a signal failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0080 Null ReqSpecInfo pointer in IOD

Source Files Generating Error Message: various
Problem Description: A request was received for which request specified information was required, but the request specific information pointer in the IOD was NULL.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0081 Invalid request specific info type: <specified type>

Source Files Generating Error Message: mvr_devattr.c
Problem Description: The request specific information type specified in an IOD does not match that required for the requested operation.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0082 Tape read label failed for device <device ID>

Source Files Generating Error Message: mvr_devattr.c
Problem Description: The Mover could not read the media volume label.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0083 Invalid section number: <specified section>

Source Files Generating Error Message: mvr_device.c, mvr_tape.c
Problem Description: A request specified a position that included an invalid section number.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0084 Invalid blocksize: <specified block size>

Source Files Generating Error Message: mvr_tape.c
Problem Description: A request specified an invalid media block size.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0085 could not build vol1 label for device <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: The Mover could not build a VOL1 volume label.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0086 could not build hdr1 for device <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: The Mover could not build a HDR1 section header.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0087 could not build hdr2 for device <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: The Mover could not build a HDR2 section header.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0088 Tape label initialization failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: The Mover could not write the volume label to a tape.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0089 AsyncRead() failed for device <device ID>

Source Files Generating Error Message: various
Problem Description: An attempt to initiate an asynchronous read operation failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0090 AsyncWrite() failed for device <device ID>

Source Files Generating Error Message: various
Problem Description: An attempt to initiate an asynchronous write operation failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0091 ssm_ServerNotify() failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to send notification of server object attribute changes failed.
System Action: The Mover determines whether a new binding handle is required for further communication with the Storage System Manager.
Administrator Action: Determine if the Storage System Manager is running. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0092 ssm_MoverNotify() failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to send notification of Mover object attribute changes failed.
System Action: The Mover determines whether a new binding handle is required for further communication with the Storage System Manager.
Administrator Action: Determine if the Storage System Manager is running. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0093 ssm_DeviceNotify() failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to send notification of device object attribute changes failed.
System Action: The Mover determines whether a new binding handle is required for further communication with the Storage System Manager.
Administrator Action: Determine if the Storage System Manager is running. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0094 SendNotifyRequest() failed

Source Files Generating Error Message: various
Problem Description: The Mover could not forward a notification request to the Mover SSM notification thread.
System Action: The notification request is dropped.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0095 Hit end of stripe list too soon, length was <specified length>, found <list length>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An IOD contained a stripe list that was shorter that the specified list length.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0096 Volume ID mismatch: dev = <volume ID on media>, request = <specified volume ID>

Source Files Generating Error Message: various
Problem Description: A request specified a volume identifier that did not match the currently mounted medium.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0097 Bad blocks per file: dev <device ID>, vol <volume ID>, offs <section offset>, bpf = <blocks per file>

Source Files Generating Error Message: mvr_device.c
Problem Description: A request specified a number of blocks between tapemarks that would cause the section to be ended before the current tape position.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0098 Could not select <type> server metadata: <error message>

Source Files Generating Error Message: various
Problem Description: An attempt to read a servers metadata failed.
System Action: The server logs the error and continues processing if possible.
Administrator Action: Determine the problem based on the returned error message.

MOVR0099 Could not read log policy metadata: <error message>

Source Files Generating Error Message: various
Problem Description: An attempt to read the Mover's log policy failed.
System Action: Server exits.
Administrator Action: Determine the problem based on the returned error message.

MOVR0100 Could not read log client config metadata: <error message>

Source Files Generating Error Message: various
Problem Description: An attempt to read the Log Client's configuration failed.
System Action: Server exits.
Administrator Action: Determine the problem based on the returned error message.

MOVR0101 Could not select mover device metadata: <error message>

Source Files Generating Error Message: various
Problem Description: An attempt to read the Mover's metadata failed.
System Action: Server exits.
Administrator Action: Determine the problem based on the returned error message.

MOVR0102 Could not read mover device metadata: <error message>

Source Files Generating Error Message: various
Problem Description: An attempt to read the Mover's metadata failed.
System Action: Server exits.
Administrator Action: Determine the problem based on the returned error message.

MOVR0103 Source/sink list longer than list length

Source Files Generating Error Message: mvr_read.c, mvr_write.c

Problem Description: An IOD contained a source/sink descriptor list that was longer than the specified list length.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0104 Stripe address list longer than list length

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An IOD contained a stripe address list that was longer than the specified list length.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0105 Could not set block size to <size>: dev <device ID>, vol <volume ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: The Mover could not set the correct blocksize for a device.
System Action: The current request is aborted and an error indication is returned to the client..
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0106 Error waiting on SAN device I/O

Source Files Generating Error Message: mvr_device.c
Problem Description: The Mover could not connnect to a SAN device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify the SAN device is operating correctly

MOVR0107 Could not read mover configuration

Source Files Generating Error Message: mvr_admmain.c
Problem Description: The Mover could not read the necessary configuration information.
System Action: The Mover terminates execution.
Administrator Action: Determine if the Mover’s configuration metadata contains correct metadata file names and correct Mover identifiers.

MOVR0108 Could not initialize mover state

Source Files Generating Error Message: mvr_parent.c
Problem Description: The Mover could not initialize the shared memory and semaphores required for inter- process communication.
System Action: The Mover terminates execution.

Administrator Action: Determine if error was caused by system resource exhaustion (shared memory, semaphores). If not, internal Mover error - report to the HPSS support representative.

MOVR0109 Could not initialize device descriptors

Source Files Generating Error Message: mvr_admif.c, mvr_admmain.c
Problem Description: The Mover could not initialize the device table.
System Action: The Mover terminates execution.
Administrator Action: Determine if DB2 is running. If so, determine if the Mover's configuration metadata contains correct metadata file names and correct Mover identifiers.

MOVR0110 Mover listen process exited, status <exit status>

Source Files Generating Error Message: mvr_parent.c
Problem Description: The Mover TCP/IP listen process terminated unexpectedly.
System Action: The Mover terminates execution.
Administrator Action: Determine if cause of process termination contained in preceding log messages. If not, internal Mover error - report to the HPSS support representative.

MOVR0111 Write attempted on non-block boundary, sec <section>, off <section offset>

Source Files Generating Error Message: mvr_device.c
Problem Description: A write request specified that a non-block aligned starting position.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0112 IgnoreSignal() failed

Source Files Generating Error Message: mvr_lstntsk.c, mvr_parent.c
Problem Description: An attempt to ignore a signal failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0113 Device <device ID> not ready, metadata flags = <metadata device flags>

Source Files Generating Error Message: mvr_disk.c, mvr_tape.c
Problem Description: A request was received for a device that is currently configured as not ready for I/O.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if device configuration metadata is correct. If so, determine the source of the request, and the cause of the invalid request.

MOVR0114 Device <device ID> not readable, metadata flags = <metadata device flags>

Source Files Generating Error Message: various
Problem Description: A read request was received for a device that is configured as not ready for read requests.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if device configuration metadata is correct. If so, determine the source of the request, and the cause of the invalid request.

MOVR0115 Device <device ID> not writeable, metadata flags = <metadata device flags>

Source Files Generating Error Message: various
Problem Description: A write request was received for a device that is configured as not ready for write requests.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if device configuration metadata is correct. If so, determine the source of the request, and the cause of the invalid request.

MOVR0116 Creation of thread attributes failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An attempt to create thread attributes failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0117 Device <device ID> not opened for reading

Source Files Generating Error Message: mvr_disk.c, mvr_tape.c
Problem Description: A read request was received for a device that was not opened for reading.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0118 Attempt to write to protected media, dev <device ID>, vol <volume ID>

Source Files Generating Error Message: mvr_disk.c, mvr_tape.c
Problem Description: A write request was received for a tape volume that is write protected.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request. Determine if the volume was write protected in error.

MOVR0119 SocketCloseConnection() failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to close a TCP/IP connection failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0120 ClientCloseConnection() failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to close a client connection failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0121 Client midblock tape position, operation not permitted on vol <volume ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: A request was received for a device that is currently not (logically) positioned on a block boundary.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0122 Could not gain control of device <device ID>

Source Files Generating Error Message: various
Problem Description: The Mover could not get control of a device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0123 Child process exited with non-zero status code

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: A Mover request handling process terminated with a non-zero exit status.
System Action: None.
Administrator Action: Determine if cause of process termination contained in preceding log messages. If not, internal Mover error - report to the HPSS support representative.

MOVR0124 Could not send mover protocol SAN3P address, address <address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to communicate with a SAN device failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Verify that the SAN device is operating. If so internal Mover error - report to the HPSS support representative.

MOVR0125 Too many devices configured for mover

Source Files Generating Error Message: mvr_admif.c, mvr_initdev.c
Problem Description: The device configuration contains more devices for the Mover than can be handle by the Mover's device table.
System Action: The device is not added to the Mover's device table.
Administrator Action: Verify the device configuration metadata is correct.

MOVR0126 Could not create auto commit handle for database <database>:<error message>

Source Files Generating Error Message: various
Problem Description: An attempt to create a database handle failed.
System Action: The Mover terminates execution.
Administrator Action: Verify that the database is running.

MOVR0127 Could not send mover protocol SAN3P address, address <address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to communicate with a SAN device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the SAN device is operating. If so internal Mover error - report to the HPSS support representative.

MOVR0129 Unable to open SAN3P config file <file name>

Source Files Generating Error Message: mvr_san3p.c
Problem Description: An attempt to initialize the Mover SAN3P config file failed.
System Action: The Mover continues executing.
Administrator Action: Verify that the file exists and is readable by the Mover.

MOVR0130 Could not verify callers authorization

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to determine if a client is authorized to perform an operation failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the Mover's configuration metadata is correct.

MOVR0131 Caller not authorized

Source Files Generating Error Message: mvr_admif.c
Problem Description: A client requested an operation that it does not have authorization to perform.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0132 Error at line <line number> in SAN3P config file <name>

Source Files Generating Error Message: mvr_san3p.c
Problem Description: An attempt to read the SAN3P config file failed.
System Action: None.
Administrator Action: Correct the error at the indicated line.

MOVR0133 SAN Config File hostname lookup failed for <host name>

Source Files Generating Error Message: mvr_san3p.c
Problem Description: An attempt to read the SAN3P config file failed.
System Action: The Mover terminates execution.
Administrator Action: Verify the hostname is correct.

MOVR0134 SAN Device ID <device ID> [<device name>] not found in configuration file not found in configuration file]

Source Files Generating Error Message: mvr_san3p.c
Problem Description: The SAN3P configuration file is incorrect.
System Action: None.
Administrator Action: Verify that the configuration file is correct.

MOVR0135 Invalid hostname: <specified host name>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: The Mover could not determine the IP address for the hostname specified in the Mover's configuration metadata.
System Action: The Mover terminates execution.
Administrator Action: Verify that the Mover's configuration metadata is correct.

MOVR0136 Change on unsettable mover attr, SelectionFlags = <specified selection flags>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request attempted to change an unsettable Mover object attributes.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0137 Change on unsettable server attr, SelectionFlags = <specified selection flags>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request attempted to change an unsettable server object attributes.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0138 Invalid mover attribute value: attr <attribute ID>, value <specified value>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A requested specified an invalid Mover object attribute.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0139 Invalid server attribute value: attr <attributes ID>, value <specified value>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A requested specified an invalid server object attribute.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0140 dst_getlabel failed on dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to query to label of an Ampex DD-2 tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0141 Shared memory initialization completion failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: The Mover could not complete the initialization of the shared memory used to hold Mover state.
System Action: None.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0142 Query absolute pos failed on dev <device ID>, vol <volume ID>, sec <section> off <section offset>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to query the current absolute position of a 3490/3590 tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0143 Set absolute pos failed on dev <device ID>, vol <volume ID>, sec <section> off <section offset>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to set the current absolute position of a 3490/3590 tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0144 Sync failed on dev <device ID>, vol <volume ID>, sec <section> off <section offset>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to flush written data to a 3490/3590 tape failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium (this error may be generated at end-of-media).

MOVR0145 Device display message failed on dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to send a message to the display area of a 3490/3590 tape drive failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0146 Could not get pdata header, offset <offset>, address <address>, port <port>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to send a message failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0147 Invalid pdata push data port list

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to send a message failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium

MOVR0148 Tape flush failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to flush previously written data to a tape failed.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0149 Tape display failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to display a message on a tape drive failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0150 SAN I/O error: media blocksize is 0 in the address msg

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: A SAN3P error occurred.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Ensure the media is OK and the cause of the invalid message.

MOVR0151 Could not set position <position> for SAN Device <device name>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: The attempt to set a position failed..
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0152 Could not set open SAN Device <device name>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: A SAN device had an error.
System Action: The current request is aborted.
Administrator Action: Determine if the device has a problem. If not, perform problem determination to determine the cause of the failure.

MOVR0153 Unable to verify label for SAN Device <device name>, Volume <volume ID>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: A SAN device had an error.
System Action: The current request is aborted.
Administrator Action: Determine if the device has a problem. If not, perform problem determination to determine the cause of the failure.

MOVR0154 I/O error on SAN Volume <Volume ID>, device <device ID> Offset <device offset>

Source Files Generating Error Message: mvr_san3pio.c

Problem Description: A SAN device had an error.
System Action: The current request is aborted.
Administrator Action: Determine if the device has a problem. If not, perform problem determination to determine the cause of the failure.

MOVR0155 Mover administrative process exited, status <exit status>

Source Files Generating Error Message: mvr_parent.c
Problem Description: The Mover process terminated unexpectedly.
System Action: The Mover terminates execution.
Administrator Action: Determine if cause of process termination contained in preceding log messages. If not, internal Mover error - report to the HPSS support representative.

MOVR0156 Initialization of signal set (sigemptyset) failed

Source Files Generating Error Message: various
Problem Description: An attempt to clear a signal set failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0157 Addition to signal set (sigaddset) failed

Source Files Generating Error Message: various
Problem Description: An attempt to add a signal to a signal set failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0158 Setting of signal mask (sigprocmask) failed

Source Files Generating Error Message: various
Problem Description: An attempt to set a signal mask failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0159 Suspension of process until signal (sigsuspend) failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An attempt to suspend a Mover process pending completion of a signal failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0160 Setting of signal action (sigaction) failed

Source Files Generating Error Message: various
Problem Description: An attempt to set the disposition of a signal failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0161 Async I/O cancel (aio_cancel) failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: An attempt to cancel an outstanding asynchronous I/O operation failed.
System Action: None.
Administrator Action: Determine if the request had completed by the time of the request to cancel the asynchronous I/O.

MOVR0162 Memory allocation (malloc) failed

Source Files Generating Error Message: various
Problem Description: An attempt to allocate memory failed.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Determine if error was caused by system resource exhaustion (memory). If not, internal Mover error - report to the HPSS support representative.

MOVR0163 Socket creation (socket) failed

Source Files Generating Error Message: various
Problem Description: An attempt to create a socket failed.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Determine if error was caused by system resource exhaustion (sockets, file descriptors). If not, internal Mover error - report to the HPSS support representative.

MOVR0164 Connection establishment (connect) failed, address <IP address>, port <port>

Source Files Generating Error Message: various
Problem Description: An attempt to establish a TCP/IP connection to the specified IP address and TCP/IP port failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0165 Setting of socket option (setsockopt(<option name>)) failed

Source Files Generating Error Message: mvr_misc.c
Problem Description: An attempt to set socket option failed.

System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0166 Close of socket (close) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to close a socket failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0167 Open of IPI-3 slave (ipi3_slave_open) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to open an IPI-3 slave device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the IPI-3 slave device configuration is correct and that the user ID under which the Mover is running has read and write permission for the configured IPI-3 slave device.

MOVR0168 Close of IPI-3 slave (ipi3_slave_close) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to close an IPI-3 slave device failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0169 Retrieval of current time (gettimeofday) failed

Source Files Generating Error Message: mvr_admif.c, mvr_lstntsk.c
Problem Description: An attempt to query the current time failed.
System Action: None. Statistic may not be maintained for the Mover timestamps.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0170 Invalid selection of mover protocol and pdata push

Source Files Generating Error Message: mvr_write.c
Problem Description: The passive data transfer options selected are mutually exclusive.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine why mutually exclusive data transfer options are selected.

MOVR0171 Invalid request for pdata push for active request

Source Files Generating Error Message: mvr_write.c
Problem Description: An invalid request for the pdata push protocol was selected for an active request.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine why an invalid request was selected.

MOVR0172 Wait on available socket (select) failed

Source Files Generating Error Message: various
Problem Description: An attempt to select on a socket failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0173 Connection accept (accept) failed

Source Files Generating Error Message: various
Problem Description: An attempt to accept a connection on a socket failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0174 Socket listen (listen) failed

Source Files Generating Error Message: various
Problem Description: An attempt to listen for connections on a socket failed.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0175 Bind (bind) on unix domain socket <socket name> failed

Source Files Generating Error Message: mvr_admmain.c, mvr_lstntsk.c
Problem Description: An attempt to bind to a unix domain socket name failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative. If the Mover had previously been run under another user ID and not gracefully shutdown, the unix domain socket names in may need to be removed by a user with appropriate privilege.

MOVR0176 Attachment of shared memory (shmat) failed, ID = <shared memory ID>

Source Files Generating Error Message: various
Problem Description: An attempt to attach to a shared memory segment failed.

System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0177 Release of shared memory (shmdt) failed, ID = <shared memory ID>

Source Files Generating Error Message: various
Problem Description: An attempt to detach from a shared memory segment failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0178 Shared memory control operation (shmctl) failed, ID = <shared memory ID>

Source Files Generating Error Message: various
Problem Description: An attempt to perform a shared memory control operation failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0179 Shared memory allocation (shmget) failed

Source Files Generating Error Message: various
Problem Description: An attempt to allocate a shared memory segment failed.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0180 Semaphore control operation (semctl) failed

Source Files Generating Error Message: various
Problem Description: An attempt to perform a semaphore control operation failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0181 Semaphore operation (semop) failed

Source Files Generating Error Message: mvr_sem.c
Problem Description: An attempt to perform a system semaphore operation failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0182 Semaphore allocation (semget) failed

Source Files Generating Error Message: mvr_sem.c

Problem Description: An attempt to allocate a system semaphore failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0183 Get device size failed: <error message>, dev <device ID>, vol <volume ID>

Source File Generating Error Message: mvr_disk.c
Problem Description: A system call to query the size of the device failed.
System Action: Import of the disk volume fails.
Administrator Action: Check for proper operation of the specified disk.

MOVR0184 Thread creation (pthread_create) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to create a thread failed.
System Action: The Mover terminates execution.
Administrator Action: Determine if error was caused by system resource exhaustion (memory, paging space). If not, internal Mover error - report to the HPSS support representative.

MOVR0185 Mutex initialization (pthread_mutex_init) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to create a mutex failed.
System Action: The Mover terminates execution.
Administrator Action: Determine if error was caused by system resource exhaustion (memory, paging space). If not, internal Mover error - report to the HPSS support representative.

MOVR0186 Mutex lock operation (pthread_mutex_lock) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to lock a mutex failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0187 Mutex unlock operation (pthread_mutex_unlock) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to unlock a mutex failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0188 Condition variable initialization (pthread_cond_init) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to create a condition variable failed.

System Action: The Mover terminates execution.
Administrator Action: Determine if error was caused by system resource exhaustion (memory, paging space). If not, internal Mover error - report to the HPSS support representative.

MOVR0189 Wait on condition variable (pthread_cond_wait) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to wait on a condition variable failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0190 Signal of condition variable (pthread_cond_signal) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to signal a thread waiting on a condition variable failed.
System Action: The Mover terminates execution.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0191 Wait on signal (sigwait) failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to wait for the delivery of a signal failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0192 Process creation (fork) failed

Source Files Generating Error Message: mvr_lstntsk.c, mvr_parent.c
Problem Description: An attempt to create a process failed.
System Action: The Mover closes the TCP/IP connection or the Mover terminates execution.
Administrator Action: Determine if error was caused by system resource exhaustion (memory, paging space, processes). If not, internal Mover error - report to the HPSS support representative.

MOVR0193 Program execution (exec) failed

Source Files Generating Error Message: mvr_parent.c
Problem Description: An attempt to execute a new program failed.
System Action: None.
Administrator Action: Verify that the Mover executables are present and that the Mover configuration metadata is correct.

MOVR0194 Signal send operation (kill) failed

Source Files Generating Error Message: mvr_parent.c
Problem Description: An attempt to send a signal failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0195 Cleanup of child process (wait) failed

Source Files Generating Error Message: mvr_parent.c
Problem Description: An attempt to cleanup after a terminated child process failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0196 Setting of process group ID (setpgid) failed

Source Files Generating Error Message: mvr_parent.c
Problem Description: An attempt to set the process group ID failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0197 Retrieval of local time (localtime) failed

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to query the current time failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0198 Media block size (<media block size>) > mover buffer size (<mover buffer size>)

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: The media block size for the specified device is greater than the configured Mover buffer size.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the Mover's configuration metadata is correct. Determine the source of the request, and the cause of the invalid request.

MOVR0199 Could not initialize passive side of mover

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: The Mover could not perform initialize required for passive side processing.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0200 Mover passive wait failed, offset = <transfer offset>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to wait for an active side request failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0201 Could not send passive reply, offset = <transfer offset>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to send a passive side reply failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0202 Could not send passive completion

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to send a passive side completion message failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0203 Could not complete active handshake, offset = <transfer offset>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to perform an active side handshake failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0204 Could not send active completion

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to send an active side completion message failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0205 Open failed for device <device ID>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to open a device special file failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0206 Read failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: mvr_read.c
Problem Description: An attempt to initiate a read from a device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0207 Write failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: mvr_device.c, mvr_write.c
Problem Description: An attempt to initiate a write to a device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0208 Error waiting on device I/O

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An error was encountered while performing device I/O.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0209 Error receiving SAN initiator address, address <address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to receive a Mover protocol SAN initiator address from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0210 Position failed for device <device ID>, volume <volume ID>

Source Files Generating Error Message: various
Problem Description: An attempt to change the media position failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0211 Could not determine transfer info, offset = <transfer offset>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to calculate the control information for the next part of a transfer failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0212 Could not determine transfer type, offset = <transfer offset>

Source Files Generating Error Message: various
Problem Description: An attempt to determine the transfer mechanism to be used for the next part of a transfer failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0213 Could not setup initiator listen, offset = <transfer offset>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to establish a listen port failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if error was caused by system resource exhaustion (memory, sockets, file descriptors). If not, internal Mover error - report to the HPSS support representative.

MOVR0214 Initiator send failed, offset = <transfer offset>

Source Files Generating Error Message: mvr_read.c
Problem Description: An attempt to perform an initiator send to a client failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0215 Initiator receive failed, offset = <transfer offset>

Source Files Generating Error Message: mvr_write.c
Problem Description: An attempt to perform an initiator receive from a client failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0216 Disk open failed for device <device ID>

Source Files Generating Error Message: mvr_device.c

Problem Description: An attempt to open a disk device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the device name specified in the device configuration metadata is correct, and the Mover user ID under which the Mover is running has read and write access.

MOVR0217 Disk close failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to close a disk device failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0218 Disk read failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to initiate a read from a disk device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0219 Disk write failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to initiate a write to a disk device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0220 Disk readlabel failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to read the volume label from a disk device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0221 Disk label initialization failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to write the volume label to a disk device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0222 Disk synchronous read failed for device <device ID>

Source Files Generating Error Message: mvr_device.c, mvr_disk.c
Problem Description: An attempt to perform a synchronous read from a disk failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the request was for a valid data position.

MOVR0223 Disk synchronous write failed for device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to perform a synchronous write from a disk failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the request was for a valid data position.

MOVR0224 Disk clear failed for device <device ID>

Source Files Generating Error Message: mvr_device.c
Problem Description: An attempt to clear part of a disk device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium, verify that the request was for a valid data position.

MOVR0225 Address out of range, dev = <device ID>, offs = <specified offset>, length = <specified length>

Source Files Generating Error Message: mvr_device.c
Problem Description: A request specified a starting address and length that are out of range for the specified device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0226 Error waiting for asynchronous I/O to complete

Source Files Generating Error Message: mvr_device.c, mvr_disk.c
Problem Description: An error was encountered performing disk I/O.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0227 Error waiting for IPI-3 I/O to complete

Source Files Generating Error Message: mvr_device.c, mvr_disk.c

Problem Description: An error was encountered during a third-party disk read or write operation.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0228 No common data transport types

Source Files Generating Error Message: mvr_device.c
Problem Description: A request contained no data transport options that the Mover supports.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0229 Close failed for device <device ID>

Source Files Generating Error Message: mvr_device.c, mvr_devspec.c
Problem Description: An attempt to close a device failed.
System Action: None.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0230 Read label failed for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: An attempt to read a media volume label failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0231 Volume label initialization failed for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: An attempt to write a media volume label failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0232 Display failed for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: An attempt to display a message on a device failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0233 Flush failed for device <device ID>

Source Files Generating Error Message: mvr_devspec.c, mvr_write.c
Problem Description: An attempt to flush previously written data to the medium failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0234 Write tapemark failed for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: An attempt to write a tape mark failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0235 Release failed for device <device ID>

Source Files Generating Error Message: various
Problem Description: An attempt to free a device failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0236 IPI-3 initialization failed

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An attempt to perform IPI-3 initialization failed.
System Action: None, however subsequent IPI-3 operations will likely fail.
Administrator Action: Verify that the IPI-3 client configuration is correct, and the user ID under which the Mover is running has read and write permission on the IPI-3 master device.

MOVR0237 IPI-3 read failed for device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to initiate a read from an IPI-3 device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0238 IPI-3 third party read failed for device <device ID>

Source Files Generating Error Message: mvr_disk.c

Problem Description: An attempt to initiate a third-party read from a device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0239 IPI-3 write failed for device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to initiate a write to an IPI-3 device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0240 IPI-3 third party read failed for device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to initiate a third-party write to a device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0241 Could not open IPI-3 partition <device ID> (<error message>)

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to open a partition on an IPI-3 disk failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the IPI-3 device and partition configuration information is correct.

MOVR0242 Error closing IPI-3 partition <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to close a partition on an IPI-3 disk failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0243 Invalid disk label parameters: block size <block size>, block <number of blocks>, start <starting block>

Source Files Generating Error Message: mvr_disk.c
Problem Description: A request to write a disk media label contained invalid parameters.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the device configuration is correct.

MOVR0244 Non-ANSI labelled tape on device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: The current medium contains a non-ANSI volume label.
System Action: Indication of the existence of the non-ANSI label is returned to the client.
Administrator Action: None.

MOVR0245 Foreign label tape on device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: The current medium contains an ANSI volume label that was not written by HPSS.
System Action: Indication of the existence of the foreign label is returned to the client.
Administrator Action: None.

MOVR0246 Close of device <device ID> failed

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to close a device failed.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0247 Block size mismatch on device <device ID>: metadata <metadata block size>, label <label block size>

Source Files Generating Error Message: mvr_disk.c
Problem Description: The block size specified in device metadata does not match the block size contained in the media label (disk only).
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the device configuration metadata is correct.

MOVR0248 Start block mismatch on device <device ID>: metadata <metadata block>, label <label block>

Source Files Generating Error Message: mvr_disk.c
Problem Description: The disk media label specifies a non-zero starting block number.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the device configuration metadata is correct.

MOVR0249 Block count mismatch on device <device ID>: metadata <block count>, label <block count>

Source Files Generating Error Message: mvr_disk.c

Problem Description: The block count specified in device metadata does not match the block count contained in the media label (disk only).
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Verify that the device configuration metadata is correct.

MOVR0250 Error building volume label for device <device ID>

Source Files Generating Error Message: mvr_disk.c
Problem Description: An attempt to build a media volume label for a disk failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0251 Could not obtain an IPI-3 transfer descriptor

Source Files Generating Error Message: mvr_clientif.c, mvr_ipi3.c
Problem Description: An attempt to obtain a handle for an IPI-3 transfer failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0252 Error initiating IPI-3 data read

Source Files Generating Error Message: mvr_clientif.c, mvr_ipi3.c
Problem Description: An attempt to receive data via IPI-3 failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0253 Error initiating IPI-3 data write

Source Files Generating Error Message: mvr_clientif.c, mvr_ipi3.c
Problem Description: An attempt to send data via IPI-3 failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0254 Error initiating IPI-3 read for device <device ID>, start <starting block>, count <number of blocks>

Source Files Generating Error Message: mvr_ipi3.c
Problem Description: An attempt to initiate a read from an IPI-3 device failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0255 Error initiating IPI-3 write for device <device ID>, start <starting block>, count <number of blocks>

Source Files Generating Error Message: mvr_ipi3.c
Problem Description: An attempt to initiate a write to an IPI-3 device failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0256 Error canceling IPI-3 I/O for device <device ID>

Source Files Generating Error Message: mvr_ipi3.c
Problem Description: An attempt to cancel an outstanding I/O request on an IPI-3 device failed.
System Action: None.
Administrator Action: None.

MOVR0257 Error waiting for IPI-3 I/O completion for device <device ID>

Source Files Generating Error Message: mvr_ipi3.c
Problem Description: An error was encountered while performing an I/O operation on an IPI-3 device.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0258 IPI-3 reference id mismatch for device <device ID>: expected <expected length>, got <actual length>

Source Files Generating Error Message: mvr_ipi3.c
Problem Description: The IPI-3 reference ID for a completed operation did not match the expected value.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0259 Error performing passive handshake

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to perform a passive side Mover protocol handshake failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine whether the transfer was aborted.

MOVR0260 Invalid mover protocol control address type: <specified type>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An address type was specified that is not supported for Mover protocol control communications. The only currently supported address type for Mover protocol communications is TCP/IP.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0261 Invalid mover protocol data address type: <specified type>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An address type was specified in a Mover protocol message that is not supported. Currently supported address types are TCP/IP, IPI-3 and Shared Memory.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0262 Could not send mover protocol initiator message, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to send a Mover protocol initiator message to the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0263 Could not receive mover protocol initiator message, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to receive a Mover protocol initiator message from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0264 Could not send mover protocol completion message, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c

Problem Description: An attempt to send a Mover protocol completion message to the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0265 Could not receive mover protocol completion message, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to receive a Mover protocol completion message from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0266 Could not send mover protocol IP address, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to send a Mover protocol TCP/IP address to the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0267 Could not receive mover protocol IP address, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to receive a Mover protocol TCP/IP address from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0268 Could not send mover protocol IPI-3 address, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to send a Mover protocol IPI-3 address to the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0269 Could not receive mover protocol IPI-3 address, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c

Problem Description: An attempt to send a Mover protocol IPI-3 address from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0270 Mover protocol address type mismatch: message <type>, address <type>

Source Files Generating Error Message: mvr_prot.c
Problem Description: The address types specified in a Mover protocol initiator message and the following address message do not match.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0271 Attempt to get socket address (getsockname) failed

Source Files Generating Error Message: mvr_misc.c
Problem Description: An attempt to determine the local addressing information for a socket failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0272 Error performing initiator socket send at offset <transfer offset>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to send data via TCP/IP as the transfer initiator failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0273 Error performing initiator socket receive at offset <transfer offset>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to receive data via TCP/IP as the transfer initiator failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0274 Error during IPI-3 data transfer

Source Files Generating Error Message: mvr_clientif.c, mvr_ipi3.c
Problem Description: An attempt to send data via IPI-3 failed.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0275 Error sending socket initiator data at offset <transfer offset>, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to send data via TCP/IP as the transfer initiator failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0276 Error receiving socket initiator data at offset <transfer offset>, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An attempt to send data via TCP/IP as the transfer initiator failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0277 Wait for slave I/O completion failed, name <client name>, TID <transfer ID>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An error was encountered during the slave side transfer of data via IPI-3.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends to determine the cause of the failure.

MOVR0278 SAN 3rd Party I/O cancel initiated for device <device>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: The initiator was signaled to cancel the request.
System Action: None.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0279 Could not set socket options

Source Files Generating Error Message: various
Problem Description: An attempt to set options on a socket failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0280 Could not initialize socket

Source Files Generating Error Message: various
Problem Description: An attempt to create a TCP/IP endpoint failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine underlying cause of the error - a preceding message will describe specific failure.

MOVR0281 Control address not provided with initiator request

Source Files Generating Error Message: mvr_read.c, mvr_prot.c
Problem Description: A passive side Mover requested to be the transfer responder, but did not provide a control address in the IOD.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0282 Passive length <specified length> greater than active <length>

Source Files Generating Error Message: mvr_prot.c
Problem Description: The passive side of transfer responded to the active side initiator messages with a length greater than that provided by the active side Mover.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0283 Selecting on write descriptor failed, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_clientif.c, mvr_prot.c
Problem Description: An attempt to select on a file descriptor (associated with the specified client address) for writing failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0284 Selecting on read descriptor failed, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_clientif.c, mvr_prot.c
Problem Description: An attempt to select on a file descriptor (associated with the specified client address) for reading failed.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0285 Select on descriptor lists failed

Source Files Generating Error Message: mvr_clientif.c, mvr_prot.c
Problem Description: An attempt to select on a list of file descriptors failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0286 Metadata transaction failed: <file name> (line <line number>)

Source Files Generating Error Message: various
Problem Description: A metadata transaction failure occurred in the specified location.
System Action: The current metadata transaction fails.
Administrator Action: Determine why the transaction was aborted.

MOVR0287 hpss_InitServer failed: <error message>

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to perform the HPSS common server initialization failed.
System Action: The Mover terminates execution.
Administrator Action: Verify that the Mover's configuration metadata is correct.

MOVR0288 Invalid volume type: <specified type>

Source Files Generating Error Message: various
Problem Description: The volume flags specified in a device address indicate an invalid volume format type. The currently supported types are HPSS and UniTree.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0289 Wrong block on UniTree tape: got <actual block>, expected <expected block>

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: While reading a UniTree formatted tape, the Mover read a block other than the block that was expected.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the device/medium.

MOVR0290 Invalid security token received from host <IP address>, port <port number>

Source Files Generating Error Message: mvr_lstntsk.c

Problem Description: After a new connection to the Mover was established, an invalid security token was passed from the Mover client.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0291 Invalid device type, device <device ID>

Source Files Generating Error Message: mvr_initdev.c
Problem Description: The Mover detected a device configuration entry that contained an invalid device type.
System Action: None.
Administrator Action: Verify that the device configuration metadata is correct.

MOVR0292 Could not receive mover protocol shared memory address, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: An attempt to receive a Mover protocol shared memory address from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0293 Could not send mover protocol shared memory address, address <IP address>, port <port>

Source Files Generating Error Message: mvr_read.c mvr_write.c
Problem Description: An attempt to send a Mover protocol shared memory address to the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0294 Could not receive passive completion

Source Files Generating Error Message: mvr_read.c mvr_write.c
Problem Description: An attempt to receive a completion message by a passive side Mover failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0295 Could not receive active completion

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: An attempt to receive a completion message by a active side Mover failed.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0296 Error sending SAN Device Address

Source Files Generating Error Message: mrv_san3pio.c
Problem Description: An error occurred while sending the SAN addressing info to the initiator.
System Action: None.
Administrator Action: None.

MOVR0297 Error receiving SAN Device Address

Source Files Generating Error Message: mrv_san3pio.c
Problem Description: An error occurred receiving the SAN addressing info from the initiator.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0298 Shared memory request out of bounds

Source Files Generating Error Message: mvr_clientif.c
Problem Description: A request specified using shared memory for the data transfer mechanism and the specified offset and length would be beyond the boundaries of the shared memory segment.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0299 Start block mismatch on SAN dev <device name>, vol <volume ID>: addr <address>, label <starting block>

Source Files Generating Error Message: mrv_san3pio.c
Problem Description: A SAN3P address message with an invalid starting block was received.
System Action: The current SAN3P request fails with an error.
Administrator Action: Determine the state of the SAN volume named by the <device path> and determine the state of the Mover that sent the address message with the invalid starting block.

MOVR0300 Invalid device ID: <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to create a device specified the generic Mover device identifier (0).

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0301 Invalid device type: <type>

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to create a device specified an invalid device type.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0302 Invalid device media blocksize: <block size>

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to create a device specified an invalid device media block size.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0303 Invalid device flags: <flags value>

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to create a device specified an invalid value for the device specific flags.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0304 Device uuid does not match mover uuid

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to create a device specified a Mover identifier that does not match the identifier of the current Mover.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine the source of the request, and the cause of the invalid request.

MOVR0305 Could not create device metadata: <error message>

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to create device configuration metadata failed.

System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if DB2 is running. If so, internal Mover error - report to the HPSS support representative.

MOVR0306 Could not delete device metadata: <error message>

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to delete device configuration metadata failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine if DB2 is running. If so, internal Mover error - report to the HPSS support representative.

MOVR0307 Select on socket timed out

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An attempt to select on a socket did not complete successfully within the specified time out period.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0308 DD-2 position mismatch, dev <device ID>: expected <partition>:<section>:<offset>, found <partition>:<section>:<offset>

Source Files Generating Error Message: mvr_tape.c
Problem Description: The position returned from a position query request issued after changing the tape position did not match the target position.
System Action: The current positioning information is reset and attempt is made to retry the positioning operation.
Administrator Action: Perform problem determination on the device/medium.

MOVR0309 Error receiving SAN3P completion response

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: An attempt to receive a Mover protocol completion message from the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Determine whether the transfer was aborted.

MOVR0310 Error sending SAN3P completion response

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: An attempt to send a Mover protocol completion message to the specified client address failed.
System Action: The current request is aborted and an error indication is returned to the client.

Administrator Action: Determine whether the transfer was aborted.

MOVR0311 Invalid port range: start <starting port>, end <ending port>

Source Files Generating Error Message: mvr_misc.c
Problem Description: The values specified for the start and end of the port range to be used by the Mover when making TCP/IP connections are invalid.
System Action: The Mover will not initialize.
Administrator Action: Correct the port range values in the Mover specific configuration are correct.

MOVR0312 Exhausted local connect port range

Source Files Generating Error Message: mvr_misc.c
Problem Description: The Mover attempted to use the entire configure port range when making a TCP/IP connection, but failed.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Perform problem determination on the TCP/IP resources to determine the cause of the error.

MOVR0313 Mover buffer overrun: offset <buffer offset>, length <transfer length>, size <buffer size>

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: The Mover detected an internal bookkeeping error, that would have caused a non-deterministic transfer error.
System Action: The current request is aborted and an error indication is returned to the client.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0314 Read request failed: <error code>

Source Files Generating Error Message: mvr_read.c
Problem Description: A Mover read request returned with an unsuccessful return code.
System Action: None, request has already completed - this message is generated as a WARNING alarm to allow a visual notification to operators/administrators that a request has failed.
Administrator Action: Determine cause of failure - this message can be triggered by normal user behavior (e.g., interrupting an in progress transfer so that the Mover fails in its attempt to send data to the client) - and take actions appropriate to that cause, if necessary.

MOVR0315 Write request failed: <error code>

Source Files Generating Error Message: mvr_write.c

Problem Description: A Mover write request returned with an unsuccessful return code.
System Action: None, request has already completed - this message is generated as a WARNING alarm to allow a visual notification to operators/administrators that a request has failed.
Administrator Action: Determine cause of failure - this message can be triggered by normal user behavior (e.g., interrupting an in progress transfer so that the Mover fails in its attempt to send receive data from the client) - and take actions appropriate to that cause, if necessary.

MOVR0316 Passive side type mismatch: passive <type>, active <type>

Source Files Generating Error Message: mvr_prot.c
Problem Description: A reply from the passive side of a transfer (either an HPSS client or another Mover) attempt to use a different transfer mechanism than that specified by the active side Mover).
System Action: The current request is aborted and an error indication returned to the client.
Administrator Action: If error was generated during a transfer between HPSS components (i.e., HPSSMover and HPSS Mover or PFTP/NFS clients or when data transfer handled internally to HPSS Client API Library), this is an internal error - contact the HPSS support representative; if this transfer was between an HPSS Mover and user code using the Mover Protocol, no action required due to programming error.

MOVR0317 Device <device ID> start offset <disk offset> not a multiple of block size <disk block size>

Source Files Generating Error Message: mvr_initdev.c
Problem Description: The starting disk offset configured for the specified device is not a multiple of the media block size specified for that same device.
System Action: The Mover generates the alarm message, and aborts its initialization process.
Administrator Action: Correct the device configuration and restart the Mover.

MOVR0318 Modifying device shared use flag not supported

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt was made to change the SHARED_USE flag of a device, which is not allowed (whether a device allows multiple concurrent Mover tasks to access it can only be set in the device configuration metadata).
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: To modify the device’s SHARED_USE flag, shutdown the Mover controlling the device and the PVL, then update the device configuration to reflect the desired change and restart the servers.

MOVR0319 System configuration request (sysconf) failed

Source Files Generating Error Message: mvr_read.c, mvr_write.c

Problem Description: An attempt to query an operating system parameter failed. In particular, the Mover attempts to query the system's memory page size (to page align its data buffers).
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Perform operating system specific problem determination to discover the cause of the failure.

MOVR0320 Send notification to Mover TCP parent process failed

Source Files Generating Error Message: mvr_admif.c
Problem Description: An attempt to send notification of a managed object change from the Mover Request process to the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0321 TCP Process device get attributes failed, device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to query device attribute values from the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0322 TCP Process device set attributes failed, device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to set device attribute values to the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0323 TCP Process device create failed, device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to create a device to the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0324 TCP Process device delete failed, device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to delete a device to the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0325 TCP Process Mover get attributes failed

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to query the Mover managed object attribute values from the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0326 TCP Process Mover set attributes failed

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to set the Mover managed object attribute values to the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0327 TCP Process Server get attributes failed

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to query the Server managed object attribute values from the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0328 TCP Process Server set attributes failed

Source Files Generating Error Message: mvr_admif.c
Problem Description: A request to set the Server managed object attribute values to the Mover TCP parent process failed.
System Action: The Mover rejects the request and returns an error indication to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0329 Send notification information request failed

Source Files Generating Error Message: mvr_admif.c, mvr_misc.c
Problem Description: An attempt to send a notification request failed.
System Action: The notification is lost, current request may be rejected (if communication of this notification was required for processing of the request).
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0330 Receive notification information request failed

Source Files Generating Error Message: Various
Problem Description: An attempt to receive a notification request failed.
System Action: The notification is lost, current request may be rejected (if communication of this notification was required for processing of the request).
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0331 String scan (sscanf) failed on string <string value>

Source Files Generating Error Message: mvr_admmain.c
Problem Description: An attempt to parse a string (via sscanf()) failed. Currently this indicates that the Mover TCP parent process control address could not be determined by the Mover Request process.
System Action: The alarm is generated, and the Mover initialization is halted.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0332 Mover client security initialization failed

Source Files Generating Error Message: mvr_admmain.c, mvr_parent.c
Problem Description: An attempt to initialize the Mover security service in either the Mover parent process or Mover Request process failed.
System Action: The alarm is generated, and the Mover initialization is halted.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0333 Mover context establishment failed with host <host name>

Source Files Generating Error Message: mvr_admmain.c, mvr_parent.c
Problem Description: An attempt to establish the Mover security context between the Mover parent process and the Mover TCP parent process failed.
System Action: The alarm is generated and the Mover initialization is halted.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0334 Attempt to get Mover log policy failed

Source Files Generating Error Message: mvr_admmain.c, mvr_admif.c
Problem Description: An attempt to read the Mover’s logging policy failed.

System Action: The alarm is generated and the Mover initialization is halted. If detected during a request to reinitialize the Mover, the request is rejected and an error indication returned to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0335 Send log client/policy information failed

Source Files Generating Error Message: mvr_admmain.c, mvr_admif.c
Problem Description: An attempt to send the Mover's logging policy to the Mover TCP parent process failed.
System Action: The alarm is generated and the Mover initialization is halted. If detected during a request to reinitialize the Mover, the request is rejected and an error indication returned to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0336 Block size mismatch on SAN dev <device name>, vol <volume ID>: addr <block size>, label <label block size>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: A failure occurred because of a mismatch between the configured device block size and the block size specified by the SAN3P disk label for this device.
System Action: The alarm is generated, the request is rejected and an error indication returned to the caller.
Administrator Action: Verify that the SAN3P device label has not been corrupted.

MOVR0337 Could not create listen port

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An attempt to create a TCP/IP listen port failed.
System Action: The alarm is generated and the Mover execution is terminated.
Administrator Action: Perform problem determination on the Mover node to determine cause of the failure.

MOVR0338 Could not send data, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An attempt to send listen port information from the Mover TCP parent process to the Mover parent process failed.
System Action: The alarm is generated and the Mover execution is terminated.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0339 Could not receive data, address <client IP address>, port <client port>

Source Files Generating Error Message: mvr_parent.c

Problem Description: An attempt to receive listen port information from the Mover TCP parent process by the Mover parent process failed.
System Action: The alarm is generated and the Mover execution is terminated.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0340 Invalid object class in notification request: <object class id>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: A notification information message contained an invalid object class.
System Action: The request is rejected, and an error indication is returned to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0341 Could not convert <address string> to IP address

Source Files Generating Error Message: mvr_misc.c
Problem Description: The Mover Request process could not convert the address returned by the Mover TCP parent process to a valid IP address.
System Action: The Mover execution is terminated.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0342 Could not send Mover shared memory information

Source Files Generating Error Message: mvr_parent.c
Problem Description: The Mover parent process could not send the Mover shared memory image to the Mover TCP parent.
System Action: The Mover execution is terminated.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0343 Invalid TCP/IP port <port ID> received from remote Mover process

Source Files Generating Error Message: mvr_parent.c
Problem Description: The Mover parent process detected an invalid IP port number returned by the Mover TCP parent.
System Action: The Mover execution is terminated.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0344 Receive of log client/policy information failed

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An attempt to receive the Mover’s logging policy information by the Mover TCP parent failed.

System Action: The Mover execution is terminated if the error is detected during the Mover initialization. If detected during a reinitialization request, the request is rejected.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0345 Could not set blocksize for Ampex drive, blocksize <request block size>

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to set the blocksize for an Ampex cartridge failed.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Verify that the block size specified is valid (if necessary, modify the storage class configuration to alter this value); if the value is valid, perform problem determination on the drive.

MOVR0346 Could not query blocksize for Ampex drive

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to query the blocksize for an Ampex cartridge failed.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0347 Could not query position for Ampex drive

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to query the current position of an Ampex cartridge failed.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0348 Unexpected Ampex drive query position valid bits: <returned value>

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to query the current position of an Ampex cartridge returned unexpected information.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive. Report error to the HPSS support representative.

MOVR0349 Could not set position for Ampex drive

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to set the current position of an Ampex cartridge failed.

System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0350 Could not query label for Ampex drive

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to query the label of an Ampex cartridge failed.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0352 Could not unload cartridge from Ampex drive

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: An attempt to unload an Ampex cartridge failed.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0353 Tape device configured with shared use enabled

Source Files Generating Error Message: mvr_initdev.c
Problem Description: An tape device is configured to allow access by multiple concurrent Mover tasks.
System Action: Mover execution is terminated.
Administrator Action: Reset the SHARED_USE flag on the tape device.

MOVR0354 Could not perform open initialization, dev <device ID> (<device name>)

Source Files Generating Error Message: mvr_tape.c
Problem Description: Device open initialization failed for an Ampex drive.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0355 Could not set unbuffered tape marks on Ampex DST drive

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: Could not set unbuffered tape mark mode on an Ampex drive.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0356 Could not get DST drive status

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: Could not query status of an Ampex drive.
System Action: The request is rejected and an error indication is returned to the caller.

Administrator Action: Perform problem determination on the drive.

MOVR0357 DST result: valid <valid flags>,class <returned class>,msicode <returned code>,msrcode <returned code>,msrstat <returned status>

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: This message (logged at the DEBUG level) contains additional debugging information returned from an Ampex drive. This message will accompany another message that describes the operation and failure code.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive .

MOVR0358 Could not get data left in DST drive buffer for dev <device ID>, vol <volume ID>

Source Files Generating Error Message: mvr_dstfuncs.c
Problem Description: Could not query the amount of data remaining in the Ampex drive buffer.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0359 Non-ANSI labeled SAN dev <device name>, vol <volume ID>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: A failure occurred because a non ANSI label was found on the specified SAN3P device.
System Action: The alarm is generated, the request is rejected and an error indication returned to the caller.
Administrator Action: Verify that the SAN3P device label has not been corrupted.

MOVR0360 Could not initialize asynchronous I/O services

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: Could not perform asynchronous I/O initialization processing.
System Action: The current Mover task exits, the connection to the caller will be closed.
Administrator Action: Perform problem determination on the operating system to determine the cause of not being able to initialize asynchronous I/O.

MOVR0361 Attempt to overwrite disk label detected, dev <device ID>

Source Files Generating Error Message: mvr_asyncio.c, mvr_ipi3.c
Problem Description: The Mover detected an attempt to overwrite the volume label on a disk device during a normal I/O operation.
System Action: The request is rejected and an error indication is returned to the caller.

Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0362 Attempt to write before disk label detected, dev <device ID>

Source Files Generating Error Message: mvr_asyncio.c, mvr_ipi3.c
Problem Description: The Mover detected an attempt to write before the configured starting disk offset the volume label on a disk device during a normal I/O operation.
System Action: The request is rejected, and an error indication is returned to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0363 Attempt to read disk label for user I/O detected, dev <device ID>

Source Files Generating Error Message: mvr_asyncio.c, mvr_ipi3.c
Problem Description: The Mover detected an attempt to read.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0364 Attempt to read before disk label detected, dev <device ID>

Source Files Generating Error Message: mvr_asyncio.c, mvr_ipi3.c
Problem Description: The Mover detected an attempt to read before the configured starting disk offset.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Internal Mover error. Report error to the HPSS support representative.

MOVR0365 Clock skew too great with Mover host<host name>

Source Files Generating Error Message: mvr_admmain.c, mvr_parent.c
Problem Description: The difference between the clocks on the node running the Mover Request process and the node running the Mover TCP processes is greater than the maximum allowed (currently 5 minutes).
System Action: The Mover execution is terminated.
Administrator Action: Adjust the clock on one or both nodes so that they are within the allowable variance.

MOVR0366 Encryption key mismatch on Mover host <host name>

Source Files Generating Error Message: mvr_admmain.c, mvr_parent.c
Problem Description: The encryption key stored on the node running the Mover TCP processes does not match the encryption key in the Mover’s type specific configuration.
System Action: The Mover execution is terminated.

Administrator Action: Ensure that both encryption key values are the same.

MOVR0367 Zero block size detected in tape positioning request

Source Files Generating Error Message: mvr_tape.c
Problem Description: The Mover detected an attempt to position a tape volume within a tape section that included a zero block size value.
System Action: The request is rejected (as the Mover cannot complete a tape block positioning request if it does not know the size of the block) and an error indication is returned to the caller.
Administrator Action: Internal HPSS error. Report error to the HPSS support representative.

MOVR0368 Request for locked or disabled device: id <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: The Mover received a request to perform an operation on a device that is either administratively locked or has been operationally disabled (possibly due to I/O errors on the device).
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Internal HPSS error. Report error to the HPSS support representative.

MOVR0369 Setting detached thread state failed

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: A call to pthread_attr_setdetachstate() failed.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Internal HPSS error. Report error to the HPSS support representative.

MOVR0370 LFT not currently supported by mover

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: The Mover was not built with support for GPFS local file transfers.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Verify that the Mover should be capable of supporting GPFS/ local file transfers and that the Mover TCP executable being used supports these transfers (e.g., *hpss_mvr_gpfs*)l.

MOVR0371 Open of LFT file (<file path>) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not open the specified file for a GPFS/local file transfer.

System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Verify that the Mover should be able to open the specified file for the requested access. If so, contact the HPSS support representative.

MOVR0372 Close of LFT file (<file path>) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not close the specified file for a GPFS/local file transfer.
System Action: None.
Administrator Action: Internal HPSS error. Report error to the HPSS support representative.

MOVR0373 Read from LFT file (<file path>) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not read data from the specified file for a GPFS/local file transfer.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Verify that the file can be read external to HPSS. If so, contact the HPSS support representative.

MOVR0374 Write to LFT file (<file path>) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not write data to the specified file for a GPFS/local file transfer.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Verify that the file can be written external to HPSS. If so, contact the HPSS support representative.

MOVR0375 Lseek in LFT file (<file path>) failed

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not set the read/write pointer in the specified file for a GPFS/local file transfer.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Verify that the file can be accessed external to HPSS. If so, contact the HPSS support representative.

MOVR0376 Local File Path unix file(<file path>) could not be opened

Source Files Generating Error Message: mvr_misc.c
Problem Description: The Mover could not open the local path configuration file used to control GPFS/local file transfers.

System Action: The Mover's internal control structures for GPFS/local file transfers are not built, causing all such transfers to fail.
Administrator Action: Verify that the file can be read external to HPSS. If so, contact the HPSS support representative.

MOVR0377 Local File Path unix file(<file path>) read error (<error code>)

Source Files Generating Error Message: mvr_misc.c
Problem Description: The Mover could not read an entry from the local path configuration file used to control GPFS/local file transfers.
System Action: The Mover's internal control structures for GPFS/local file transfers will potentially be incomplete, possibly causing some transfers to fail.
Administrator Action: Verify that the file can be read external to HPSS. If so, contact the HPSS support representative.

MOVR0378 Local File Path unix file(<file path>) has bad format

Source Files Generating Error Message: mvr_misc.c
Problem Description: The Mover could not parse an entry from the local path configuration file used to control GPFS/local file transfers.
System Action: The Mover's internal control structures for GPFS/local file transfers will potentially be incomplete, possibly causing some transfers to fail.
Administrator Action: Verify that the entries in the local path configuration file are formatted correctly. If so, contact the HPSS support representative.

MOVR0379 Path (<file path name>) not a mover local file path

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The file pathname passed to the Mover for a GPFS/local file transfer did not match any of the path prefixes contained in the local path configuration file.
System Action: The request is rejected and an error indication is returned to the caller.
Administrator Action: Determine whether a prefix matching this pathname should be added to the local path configuration file.

MOVR0380 Could not send request descriptor table

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: The Mover could not send the Mover's request table from a remote Mover process to the Mover parent process.
System Action: The request to query the Mover's request information fails and an error indication is returned to the caller.
Administrator Action: Verify that there are no connectivity problems between the two machines over which the Mover is distributed. If no problems are detected, contact the HPSS support representative.

MOVR0381 Could not receive request descriptor table

Source Files Generating Error Message: mvr_admrequest.c
Problem Description: The Mover could not receive the request table from a remote Mover process.
System Action: The request to query the Mover's request information fails and an error indication is returned to the caller.
Administrator Action: Verify that there are no connectivity problems between the two machines over which the Mover is distributed. If no problems are detected, contact the HPSS support representative.

MOVR0382 Initiator error reading SAN3P data. Offset = <offset>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: The Mover could not read the next portion of data in a SAN3P transfer.
System Action: The current SAN3P request fails with an error.
Administrator Action: This can be caused by either a failure reading a SAN-attached disk or a communications problem with the SAN3P client. Determine if the disk is experiencing problems and if the SAN3P client is behaving properly.

MOVR0384 Realtime monitoring initialization failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: The Mover could not perform initialization required to support realtime monitoring.
System Action: The Mover terminates execution.
Administrator Action: Verify that the Mover configuration is correct.

MOVR0385 Realtime monitoring shutdown processing failed

Source Files Generating Error Message: mvr_admmain.c
Problem Description: The Mover could not perform processing to shutdown the realtime monitoring capability during Mover shutdown.
System Action: None.
Administrator Action: None.

MOVR0386 Connection failed to Unix domain socket <socket name>

Source Files Generating Error Message: various.
Problem Description: The Mover could not perform a connection to a Unix domain socket.
System Action: An internal Mover communication request fails.
Administrator Action: Internal Mover error. Contact the HPSS support representative.

MOVR0387 Waiting on descriptor for IPI-3 transfer failed, name <client name>, TID <transfer ID>

Source Files Generating Error Message: mvr_clientif.c

Problem Description: An error occurred while waiting for a transfer descriptor to become ready for an HPSS transfer.
System Action: The current request fails and an error indication is returned to the caller.
Administrator Action: Determine whether the transfer was aborted.

MOVR0388 Could not query device state, dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while trying to obtain tape drive status information.
System Action: The request it rejected and an error indication is returned to the client.
Administrator Action: Perform problem determination on the drive.

MOVR0389 Backward space record on device <device ID> failed, count = <space count>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while trying to space backward the specified number of tape blocks.
System Action: The request it rejected and an error indication is returned to the client.
Administrator Action: Perform problem determination on the drive.

MOVR0390 Could not send pdata header, address <IP address>, port <port>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: An error occurred while trying to send a parallel data header to the client to request the transfer of data.
System Action: The current request fails and an error indication is returned to the caller.
Administrator Action: Determine if the client aborted the transfer. If not, perform problem determination on both ends of the transfer to determine the cause of the failure.

MOVR0391 Error opening SCSI device <device ID> (<device name>) from <calling function>(): <additional SCSI layer message>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while opening a SCSI tape device for pass through processing.
System Action: The current request fails and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive and report to the HPSS support representative.

MOVR0392 Error closing SCSI device <device ID> (<device name>) from <calling function>(): <additional SCSI layer message>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while closing a SCSI tape device used for pass through processing.
System Action: This error indication is logged.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0393 Error reserving device <device ID>, SCSI status <status string>, sense <SCSI sense>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while reserving a SCSI tape device for exclusive use.
System Action: The current request fails and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive, determine if drive is being used by another application and report to the HPSS support representative.

MOVR0394 Error releasing device <device ID>, SCSI status <status string>, sense <SCSI sense>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while releasing an exclusive reservation on a SCSI tape device.
System Action: This error indication is logged.
Administrator Action: Perform problem determination on the drive, determine if drive is being used by another application and report to the HPSS support representative.

MOVR0395 Error trying to stat device <device ID> (<device name>)

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: An error occurred while obtaining status for the specified disk device.
System Action: This error indication is logged.
Administrator Action: Check the device name in the configuration to ensure that it refers to an existing device.

MOVR0396 Error writing volume label, device , SCSI status <status string>, sense <SCSI sense>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while writing a tape label to an on cartridge memory chip. This can only happen with GY8240 Sony tape drives.
System Action: The current import request fails and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0397 Error reading volume label, device <device ID>, SCSI status <status string>, sense <SCSI sense>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred while reading a tape label from an on cartridge memory chip. This can only happen with GY8240 Sony tape drives.
System Action: The current request fails and an error indication is returned to the caller.
Administrator Action: Perform problem determination on the drive.

MOVR0398 Could not set drive/driver to use variable block sizes, dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to set a tape device to use variable block size failed. This error can only occur on Linux platforms.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Verify that the drive and driver are capable of supporting variable block sizes.

MOVR0399 Could not set drive/driver to SCSI-2 mode, dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An attempt to set a tape device to use SCSI-2 mode failed. This error can only occur on Linux platforms.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Verify that the drive and driver are capable of supporting SCSI-2 mode.

MOVR0400 Direct block positioning is not valid for this operation

Source Files Generating Error Message: mvr_devattr.c, mvr_devspec.c, mvr_write.c
Problem Description: An invalid attempt to set the tape position with a logical block address.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Internal Mover error. Report to the HPSS support.

MOVR0401 Inquiry failed for device <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: SCSI inquiry failed for the device.
System Action: Logical block position will be disabled.
Administrator Action: Perform problem determination on the device.

MOVR0402 Mode sense failed for device <device ID>

Source Files Generating Error Message: mvr_tape.c

Problem Description: Could not get SCSI configuration mode page for the device.
System Action: Logical block position will be disabled.
Administrator Action: Perform problem determination on the device.

MOVR0403 Device does not support logical block identifiers, dev <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: The device configuration indicated that it should use logical block positioning, but the device does not support that function.
System Action: Logical block position will be disabled.
Administrator Action: Disable logical block positioning on the HPSS device configuration window.

MOVR0404 Invalid absolute address for direct block positioning

Source Files Generating Error Message: mvr_tape.c
Problem Description: A request was made to position a tape directly to the requested absolute address but the absolute address was not a logical block address.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0405 Invalid absolute address type

Source Files Generating Error Message: mvr_tape.c
Problem Description: An invalid logical block address was passed to the Mover.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0406 Tape file verification error: dev <device ID>, vol <volume ID>, pos <section>:<section offset>, bis <blocks in section>, xfer <bytes moved>/<transfer length>

Source Files Generating Error Message: mvr_asyncio.c
Problem Description: A tape read encountered an end of tape section but the number of blocks in the section doesn’t match that of a full section. If this is not the last section for the transfer, then this error is log. This situation could potentially be caused by a positioning error.
System Action: The device is marked as suspect.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0407 Error obtaining SAN3P device <device ID> [<device uuid>]: <SAN3P library error message>

Source Files Generating Error Message: mvr_disk.c

Problem Description: An error occurred trying to get the device name for the specified SAN3P device.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Perform problem determination on the device and connectivity. Verify that the device UUID is found in the /var/tmp/hpss_san3p.0.ids file. If it is not remove the file and reissue the request.

MOVR0408 Device <device ID> currently exists in device cache

Source Files Generating Error Message: mvr_admif.c
Problem Description: An error occurred creating a new Mover device because the request was for a device identifier for an existing device.
System Action: The create request will fail.
Administrator Action: Ensure that the no other devices exist for the device identifier specified in the create. If no duplication is found recycle the Mover to allow it to re-read the current device configuration information.

MOVR0409 Non character device <device ID>(<device name>) encountered, type <device mode>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: A non-character device name was encountered for one of the Mover devices. Character devices are required on all platforms, with the exception of Linux. This is because all data needs to be written to media at the completion of each I/O request. On Linux, the O_DIRECT flag is used with block devices to ensure that this happens.
System Action: This warning messages is logged.
Administrator Action: The specified device name should be changed to a character device.

MOVR0410 Invalid IP address family type(s) [<address 1 family>, <address 2 family>]

Source Files Generating Error Message: mvr_clientif.c
Problem Description: A non-IPv4 IP address was encountered trying to compare socket addresses.
System Action: The socket that correspond to the address will not be used for data or control transmissions.
Administrator Action: Determine if a non-IPv4 interface has been enabled. Otherwise, it might be an internal Mover error. Report to the HPSS support representative

MOVR0411 Error opening SAN Device <device name>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: An error occurred trying to open the specified SAN3P disk device.
System Action: The current request is aborted and an error indication is returned to client.

Administrator Action: Perform problem determination on the device.

MOVR0412 Error on <error message> for SAN Device <device name>, Offset <device offset>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: A generic SAN3P disk I/O error occurred.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Perform problem determination on the device.

MOVR0413 Positioning error on <device name> for SAN Device, Offset <device offset>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: An error occurred trying to position the specified SAN3P disk device.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Determine if the offset looks correct given the size of the physical device. Perform problem determination on the device.

MOVR0414 Error reading SAN Device <device name>, Length <data length>, Offset <device offset>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: An error occurred trying to read from the specified SAN3P disk device.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Perform problem determination on the device.

MOVR0415 Error writing SAN Device <device name>, Length <data length>, Offset <device offset>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: An error occurred trying to write to the specified SAN3P disk device.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Perform problem determination on the device.

MOVR0416 Attempt to get name for address (getnameinfo) <host name> failed: <error message>

Source Files Generating Error Message: mvr_parent.c
Problem Description: An error occurred trying to get a numeric host name for the specified IP address.
System Action: The Mover will fail to start.

Administrator Action: Ensure that name resolution is working correctly for the remote mover interfaces.

MOVR0417 Attempt to get address for name (getaddrinfo) <IP address> failed: <error message>

Source Files Generating Error Message: mvr_misc.c
Problem Description: An error occurred trying to get IP address information for the specified name.
System Action: The Mover will be unable to send notifications to SSM causing lost manage object updates.
Administrator Action: Ensure that name resolution is working correctly for the mover interfaces.

MOVR0418 Error invalid data address id <specified identifier>, max id <maximum identifier>

Source Files Generating Error Message: mvr_clientif.c
Problem Description: A sanity check error occurred trying to track the interface usage.
System Action: This error indication is logged.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0419 Error data address inuse count underflow

Source Files Generating Error Message: mvr_clientif.c
Problem Description: Sanity check error occurred trying to track the interface usage.
System Action: This error indication is logged.
Administrator Action: Internal Mover error. Report to the HPSS support representative.

MOVR0420 Error on READ_POSITION for device <device ID>, SCSI status <status string>, sense <SCSI sense>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred issuing a SCSI READ POSITION command to the specified device.
System Action: The current request is aborted and an error indication is returned to client.
Administrator Action: Perform problem determination on the device.

MOVR0421 Error on LOCATE to <locate key> for device <device ID>, SCSI status <status string>, sense <SCSI status>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred issuing a SCSI LOCATE command to the specified device.

System Action: An attempt will be made to position the device using relative operations. If this also fails, the current request is aborted and an error indication is returned to client.
Administrator Action: Perform problem determination on the device.

MOVR0422 Error reading configuration page for device <device ID>, SCSI status <status string>, sense <SCSI status>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred trying to read the SCSI device configuration mode page.
System Action: No LBA support is assumed and this error indication is logged
Administrator Action: Perform problem determination on the device.

MOVR0423 Attempt to get port failed: <reason message>

Source Files Generating Error Message: mvr_admmain.c, mvr_clientif.c, mvr_lstntsk.c & mvr_misc.c
Problem Description: An error occurred trying to get the port associated with a network endpoint.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Determine if error was caused by system network problem. If not, internal Mover error - report to the HPSS support representative.

MOVR0424 Attempt to set port failed: <reason message>

Source Files Generating Error Message: mvr_admmain.c, mvr_clientif.c, mvr_lstntsk.c, mvr_prot.c
Problem Description: An error occurred trying to set the port associated with a network endpoint.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Determine if error was caused by system network problem. If not, internal Mover error - report to the HPSS support representative.

MOVR0425 Error locate support is required for SAMFS volumes, device <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred trying to position a SAMFS tape for reading either because the specified logical block address is invalid of the drive has locate support disable.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Enable locate support for the specified device. If locate support is already enabled for the device, report the problem to the HPSS support representative.

MOVR0426 Error positioning SAMFS volume, device <device ID>

Source Files Generating Error Message: mvr_tape.c
Problem Description: An error occurred trying to position a SAMFS tape for reading.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Perform problem determination on the device and report the problem to the HPSS support representative.

MOVR0427 Could not verify 'ustar' header, <error detail>

Source Files Generating Error Message: mvr_read.c
Problem Description: An error occurred trying to read the 'tar' header from a SAMFS tape.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Perform problem determination on the device and report the problem to the HPSS support representative.

MOVR0429 Error advancing lba, device <device ID>, volume <volume ID>, lba <logical block>, sec <tape section>, off <tape section offset>

Source Files Generating Error Message: mvr_device.c
Problem Description: An error occurred trying to calculate a logical block address while reading a SAMFS tape.
System Action: The current request is aborted and an error indication is returned to the client, or the Mover terminates execution.
Administrator Action: Internal Mover error - report to the HPSS support representative.

MOVR0430 Disk size mismatch on device <device ID>: start <starting offset>, bytes <configured bytes>, size <actual device size>

Source File Generating Error Message: mvr_device.c
Problem Description: The configured size of the specified device exceeds the actual size.
System Action: Import of the disk volume fails.
Administrator Action: Check to ensure that the proper size was used to configure the device.

MOVR0431 Error unknown disk label format on device <device ID>: format '<format field>'

Source File Generating Error Message: mvr_disk.c
Problem Description: An invalid label format identifier was encountered.
System Action: Varies.
Administrator Action: Check the configuration of the specified device and report the issue to the HPSS support representative.

MOVR0432 Disk device <device ID> configured with non-zero starting offset <offset>

Source Files Generating Error Message: mvr_lstntsk.c
Problem Description: A non-SAN3p disk was found with a non-zero starting offset value.
System Action: The message is informative only. The system will continue to function normally.
Administrator Action: Contact the support representative about procedures to resolve the issue.

MOVR0433 Mover failed to set stack size for local mover

Source File Generating Error Message: mvr_parent.c
Problem Description: The system call to set the process stack size failed.
System Action: The Mover process will fail to start.
Administrator Action: Determine if the AIX system limits allows for a stack size of at least 1MB.

MOVR0434 Unexpected results checking for unwritten tape for device <device ID>, sense <SCSI sense>

Source File Generating Error Message: mvr_tape.c
Problem Description: The system call fails while trying to determine if a prior tape read has failed because the tape was never written.
System Action: Varies.
Administrator Action: Perform device diagnostic on the specified device.

MOVR0435 Error invalid block size on device <device ID>: blocksize <block size>

Source File Generating Error Message: mvr_disk.c
Problem Description: The media block size was found to be a non-power of two value or a value less that 512 bytes.
System Action: Import of the disk volume fails.
Administrator Action: Adjust the block size configuration for the specified device.

MOVR0436 Error unknown disk label format on SAN dev <SAN3p device ID>, vol <volume ID>: format '<format field>'

Source File Generating Error Message: mvr_san3pio.c
Problem Description: An invalid label format identifier was encountered on a SAN3p volume.
System Action: The corresponding SAN3p I/O operation fails.
Administrator Action: Check the configuration of the specified device and report the issue to the HPSS support representative.

MOVR1001 Device GetAttributes request for device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to query the attributes of a device managed object.
System Action: None.

Administrator Action: None.

MOVR1002 Device SetAttributes request for device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to alter the attributes of a device managed object.
System Action: None.
Administrator Action: None.

MOVR1003 Server GetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to query the attributes of the server managed object.
System Action: None.
Administrator Action: None.

MOVR1004 Server SetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to alter the attributes of the server managed object.
System Action: None.
Administrator Action: None.

MOVR1005 Mover GetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to query the attributes of the Mover managed object.
System Action: None.
Administrator Action: None.

MOVR1006 Mover SetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to alter the attributes of the Mover managed object.
System Action: None.
Administrator Action: None.

MOVR1007 DeviceGetAttr_IOD request for device <device ID>

Source Files Generating Error Message: mvr_devattr.c
Problem Description: The Mover received a IOD request to query the attributes of a device managed object.
System Action: None.
Administrator Action: None.

MOVR1008 DeviceSetAttr_IOD request for device <device ID>

Source Files Generating Error Message: mvr_devattr.c
Problem Description: The Mover received a IOD request to alter the attributes of a device managed object.
System Action: None.
Administrator Action: None.

MOVR1009 DeviceSpec load request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to load a removable media volume for a device.
System Action: None.
Administrator Action: None.

MOVR1010 DeviceSpec unload request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to unload a removable media volume from a device.
System Action: None.
Administrator Action: None.

MOVR1011 DeviceSpec flush request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to flush data previously written to the storage medium.
System Action: None.
Administrator Action: None.

MOVR1012 DeviceSpec write tapemark request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to write a tape mark.
System Action: None.
Administrator Action: None.

MOVR1013 DeviceSpec loaddisplay request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to send a message to a device’s display area.
System Action: None.
Administrator Action: None.

MOVR1014 DeviceSpec readlabel request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c

Problem Description: The Mover received a request to read the volume label from a device.
System Action: None.
Administrator Action: None.

MOVR1015 DeviceSpec writelabel request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to write the volume label to a device.
System Action: None.
Administrator Action: None.

MOVR1016 DeviceSpec request, NULL information structure

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a device specific request that did not contain any request specific information.
System Action: None.
Administrator Action: None.

MOVR1017 DeviceSpec request, invalid subfunction <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a device specific request specified and invalid device specific function.
System Action: None.
Administrator Action: None.

MOVR1018 Read request

Source Files Generating Error Message: mvr_read.c
Problem Description: The Mover received a request to read data.
System Action: None.
Administrator Action: None.

MOVR1019 Write request

Source Files Generating Error Message: mvr_write.c
Problem Description: The Mover received a request to write data.
System Action: None.
Administrator Action: None.

MOVR1020 Exiting Device GetAttributes request, device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a request to query device managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1021 Exiting Device SetAttributes request, device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a request to alter device managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1022 Exiting Server GetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a request to query server managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1023 Exiting Server SetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a request to alter server managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1024 Exiting Mover GetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a request to query Mover managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1025 Exiting Mover SetAttributes request

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a request to alter Mover managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1026 Exiting DeviceGetAttr_IOD request, device <device ID>

Source Files Generating Error Message: mvr_devattr.c
Problem Description: The Mover is exiting a request to query device managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1027 Exiting DeviceSetAttr_IOD request, device <device ID>

Source Files Generating Error Message: mvr_devattr.c
Problem Description: The Mover is exiting a request to alter device managed object attributes.
System Action: None.
Administrator Action: None.

MOVR1028 Exiting DeviceSpec request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device specific request.
System Action: None.
Administrator Action: None.

MOVR1029 Exiting load request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device specific load request.
System Action: None.
Administrator Action: None.

MOVR1030 Exiting unload request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device specific unload request.
System Action: None.
Administrator Action: None.

MOVR1031 Exiting flush request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device specific flush request.
System Action: None.
Administrator Action: None.

MOVR1032 Exiting writetm request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device specific write tape mark request.
System Action: None.
Administrator Action: None.

MOVR1033 Exiting loaddisplay request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device specific load display request.
System Action: None.
Administrator Action: None.

MOVR1034 Exiting readlabel request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device read label request.
System Action: None.
Administrator Action: None.

MOVR1035 Exiting writelabel request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a device write label request.
System Action: None.
Administrator Action: None.

MOVR1036 Exiting Read request, <bytes moved> bytes

Source Files Generating Error Message: mvr_read.c
Problem Description: The Mover is exiting a read request.
System Action: None.
Administrator Action: None.

MOVR1037 Exiting Write request, <bytes moved> bytes

Source Files Generating Error Message: mvr_write.c
Problem Description: The Mover is exiting a write request.
System Action: None.
Administrator Action: None.

MOVR1038 DeviceSpec clear request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to zero a part of a disk device.
System Action: None.
Administrator Action: None.

MOVR1039 Exiting clear request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a clear request.
System Action: None.
Administrator Action: None.

MOVR1040 SAN3P I/O: dev <device name>, blkoff <block offset>, buf <buffer pointer>, off <transfer offset>, len <data length>, moved <bytes moved>, ops <i/o operations required>

Source Files Generating Error Message: mvr_san3pio.c
Problem Description: The Mover performed a SAN3P disk I/O.
System Action: None.
Administrator Action: None.

MOVR1041 Create device request for device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to create a device.
System Action: None.
Administrator Action: None.

MOVR1042 Exiting Create device request for device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a create device request.
System Action: None.
Administrator Action: None.

MOVR1043 Delete device request for device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a request to delete a device.
System Action: None.
Administrator Action: None.

MOVR1044 Exiting Delete device request for device <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is exiting a delete device request.
System Action: None.
Administrator Action: None.

MOVR1045 Issue absolute position <position> for <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover issued an absolute position for the device.
System Action: None.
Administrator Action: None.

MOVR1046 Issue rewind for <device ID>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover issued a rewind for the device.
System Action: None.
Administrator Action: None.

MOVR1047 Valid Security context from host <host>, port <port>

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover received a valid security context..
System Action: None.
Administrator Action: None.

MOVR1048 Positioning device <device ID>, <from section>/<from section offset> -> <to section>/<to section offset> absaddr= <locate key>/<[LBA|COOKIE]>/ <[SECTION|DIRECT]>

Source Files Generating Error Message: mvr_tape.c
Problem Description: This trace message indicates the beginning of a tape device position operation.
System Action: None.
Administrator Action: None.

MOVR1049 Completed positioning, device <device ID>, secs <elapsed seconds>, <section>/ <section offset> absaddr=<locate key>

Source Files Generating Error Message: mvr_tape.c
Problem Description: This trace message indicates the the completion of a tape device positioning operation. Any required absolute positioning overhead is included in the elapsed seconds.
System Action: None.
Administrator Action: None.

MOVR1050 Completed absolute position, device <device ID>, secs <elapsed seconds>, absaddr= <locate key>

Source Files Generating Error Message: mvr_tape.c
Problem Description: This trace message indicates the the completion of a tape device absolute positioning operation.
System Action: None.
Administrator Action: None.

MOVR1051 Access to SAN group <group ID> devices not enabled

Source Files Generating Error Message: mvr_read.c, mvr_write.c
Problem Description: Indicates that SAN3P transfers are disabled because the indicated group identifier is not a configured group for this mover.
System Action: An IP transport will be used to move the data.
Administrator Action: Check the /var/hpss/etc/hpss_san3p.conf file on the mover machine for configuration for the specified group identifier.

MOVR1052 Request aborted due to EOM, address <IP address>, port <port>

Source Files Generating Error Message: mvr_prot.c
Problem Description: Passive I/O was aborted per request via a mover protocol message.
System Action: None.
Administrator Action: None.

MOVR1053 READ_POSITION results, device <device ID>, pos error=<positioning error>, warning=<EOM indicator>, blk=<current location>, buf=<bytes in device buffer>

Source Files Generating Error Message: mvr_tape.c
Problem Description: Reports the result of a SCSI READ POSITION command.
System Action: None.
Administrator Action: None.

MOVR1054 Verified SAMFS ustar header for <file name>, device=<device ID>, vol=<volume ID>, absaddr=<logical block>, off=<logical block offset>

Source Files Generating Error Message: mvr_read.c
Problem Description: Reports the result of a successful header verification for a SAMFS tape archive member.
System Action: None.
Administrator Action: None.

MOVR1055 Advancing lba for device <device ID>, from <logical block> to <logical block>, bytes <advanced bytes>

Source Files Generating Error Message: mvr_tape.c
Problem Description: Reports the result from advancing a logical block by the specified number of bytes.
System Action: None.
Administrator Action: None.

MOVR1056 DeviceSpec get size request for device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover received a request to obtain the size of a disk device.
System Action: None.
Administrator Action: None.

MOVR1057 Exiting get size request, device <device ID>

Source Files Generating Error Message: mvr_devspec.c
Problem Description: The Mover is exiting a request to obtain the size of a disk device.
System Action: None.
Administrator Action: None.

MOVR1058 Tape never written for device <device ID>

Source File Generating Error Message: mvr_tape.c
Problem Description: The Mover received a request to read the label from a tape that has never been written.
System Action: None.
Administrator Action: None.

MOVR2001 End of media on device <device ID>, volume <volume ID>, section <section>, offset <section offset>

Source Files Generating Error Message: mvr_asyncio.c, mvr_tape.c
Problem Description: A write to tape failed, an EOM indication will be returned.
System Action: None.
Administrator Action: None.

MOVR2002 Mover terminating

Source Files Generating Error Message: various
Problem Description: The Mover is terminating execution.
System Action: None.
Administrator Action: None.

MOVR2003 Mover reinitializing

Source Files Generating Error Message: mvr_admif.c
Problem Description: The Mover is performing reinitialization.
System Action: None.
Administrator Action: None.

MOVR2004 Disk device <device ID> configured with non-zero starting offset <starting offset>

Source File Generating Error Message: mvr_lstntsk.c
Problem Description: The Mover has encountered a disk device with a non-zero starting offset. There have been configuration problems where disks devices were overlapped and to avoid this risk it is recommended that the situation be rectified.
System Action: None.
Administrator Action: Contact the HPSS support representative for assistance with reconfiguration of the disk device.

MOVR2005 Mover received signal <signal number>

Source Files Generating Error Message: various
Problem Description: The Mover received a signal.
System Action: The Mover will terminate execution upon receipt of either SIGINT or SIGTERM.
Administrator Action: Determine the source of the signal.

MOVR2006 Mover initialized

Source Files Generating Error Message: mvr_admmain.c
Problem Description: The Mover has been initialized.
System Action: None.
Administrator Action: None.

MOVR2007 Disabling device <device ID> due to write error

Source Files Generating Error Message: mvr_tape.c
Problem Description: The Mover has disabled the specified tape device due to receiving an error during a write request. Note that the Mover will disable the device

if the error is detected in the first tape section (before or in the act of writing the first tape mark), which could be caused by a bad tape volume - however this action prevents a bad tape drive from causing a number of tape volumes from being marked at end-of-media (EOM).
System Action: The Mover marks the device as disabled, and will notify the PVL that the device has been disabled when it unloads the tape from the drive.
Administrator Action: Perform problem determination procedures to determine if the error was caused by a bad tape volume or by the drive.

Chapter 14. Migration / Purge Server Error Messages (MPSR Series)

MPSR0001 **System call failed: <error detail>.**

Problem Description: An operating system function call returned an error status.
System Action: Usually aborts the Migration/Purge Server.
Administrator Action: Look at system call error; fix the problem; restart MPS server.

MPSR0003 **Address of connect context error.**

Problem Description: The call to hpss_EnterConnection returned an error status.
System Action: Returns HPSS_EBADCONN to the calling routine.
Administrator Action: Examine HPSS logs to determine problem. Contact HPSS support if needed.

MPSR0004 **Invalid type passed to mps_SSMMPSSClassNotify (<#>).**

Problem Description: Invalid type passed to mps_SSMMPSSCLassNotify. The valid types are 0, 1, and 2.
System Action: Aborts Migration/Purge Server.
Administrator Action: Consult the HPSS support team.

MPSR0005 **Disk migration failure (SClassId <ID>, HierId <ID>, SubSysId <ID>).**

Problem Description: core_MigrateFile returned an error status.
System Action: For both disk and tape migration, MPS retries the core_MigrateFile call according to the error limit specified in the Core API Failures field on the MPS configuration. If the configured number of consecutive calls fails during a disk migration run, MPS will skip to the next hierarchy. This number of consecutive failures during a tape migration run leads MPS to abort the run.
Administrator Action: Make sure there is sufficient free space in the target storage class. For disk migration, verify that none of the source volumes are locked. Check for a media failure in either the source or target storage classes. Check for network problems. Check the log to locate the problem and consult with the HPSS support team.

MPSR0006 **Invalid migration policy runtime interval '<#>' - will use '1000000' instead (SClassId <ID>, SubSysId <ID>, PolicyId <ID>).**

Problem Description: The runtime interval in the specified migration policy is out of range.
System Action: Use 1,000,000 minutes instead of the specified value.
Administrator Action: Check and repair the migration policy, then restart MPS.

MPSR0007 Error locking mutex.

Problem Description: pthread_mutex_lock returned an error status.
System Action: Restart MPS and contact the HPSS support team.
Administrator Action: Check the mutex locking and possible programming error; correct the problem and restart the Migration/Purge Server.

MPSR0008 Error unlocking mutex.

Problem Description: pthread_mutex_lock returned an error status.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check the mutex locking and possible programming error; correct the problem and restart the Migration/Purge Server.

MPSR0009 Entered MPS API.

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0010 Error creating AutoTranHandle (DB <name>).

Problem Description: MPS cannot obtain a database handle.
System Action: Aborts the MPS.
Administrator Action: Check that the database is running. Check the database and system configurations. Check the maximum number of database handles. Contact support.

MPSR0011 Error freeing AutoTranHandle.

Problem Description: MPS cannot free a database handle.
System Action: Aborts the MPS.
Administrator Action: Check that the database is running. Check the database and system configurations. Contact support.

MPSR0012 MPS initialize connection error.

Problem Description: Migration/Purge Server cannot connect to the Core Server or SSM.
System Action: None, informational.
Administrator Action: Verify that Core and SSM are configured and running.

MPSR0013 Metadata read error: class of service.

Problem Description: Migration/Purge Server cannot read successfully a particular Class of Service or a Hierarchy from metadata.
System Action: Aborts Migration/Purge Server if it is just starting up. Do nothing except log the message if the problem occurs after the startup is completed.
Administrator Action: Verify and correct the Class of Server and Hierarchy configuration.

MPSR0014 Invalid combination of type and notification passed(<#> - <#>).

Problem Description: Bad combination of the RunType and NotifyType found in mps_SSMMPSSClassNotify routine. This is a programming error.
System Action: Aborts Migration/Purge Server.
Administrator Action: Contact the HPSS support team.

MPSR0015 Error closing cursor.

Problem Description: MPS cannot free a database cursor.
System Action: Aborts the MPS.
Administrator Action: Check that the database is running. Check the database and system configurations. Contact support.

MPSR0016 Failure in hpss_InitServer (<error code>).

Problem Description: hpss_InitServer returned an error status.
System Action: The tape migration run will abort.
Administrator Action: Verify server and system configuration, restart MPS.

MPSR0018 Server shutdown complete.

Problem Description: MPS has been shutdown through SSM or via a signal.
System Action: The MPS process will exit and will not be eligible for restart by the startup daemon.
Administrator Action: None.

MPSR0019 Metadata read error: bitfile descriptor.

Problem Description: Can’t read bitfile descriptor record from metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2; correct the problem and restart Migration/Purge Server.

MPSR0020 Metadata read error: bitfile disk map (SClassId <ID>).

Problem Description: Can’t read Bitfile Disk Map Allocation records from metadata file.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2; correct the problem and restart Migration/Purge Server.

MPSR0021 Metadata read error: checkpoint info (SClassId <ID>).

Problem Description: Can’t read MPS checkpoint records from metadata file.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2; correct the problem and restart Migration/Purge Server.

MPSR0022 Server halt complete.

Problem Description: MPS has been halted through SSM or via a signal.
System Action: The MPS process will exit and will not be eligible for restart by the startup daemon.
Administrator Action: None.

MPSR0023 Metadata read error: Storage-Maps-by-Space (SClassId <ID>).

Problem Description: Failed to read Storage-Maps-by-Space record from metadata.
System Action: Aborts Migration/Purger Server.
Administrator Action: Check DB2; correct the problem and restart Migration Purge Server.

MPSR0024 Metadata read error: migration policy (PolicyId <ID> SubSysId <ID>).

Problem Description: Can’t read the migration policy metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2 and migration policy table; correct the problem and restart Migration/Purge Server.

MPSR0025 Metadata read error: purge policy (PolicyId <ID>, SubSysId <ID>).

Problem Description: Can’t read the purge policy metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2 and purge policy table; correct the problem and restart Migration/Purge Server.

MPSR0026 Metadata read error: storage class (SClassId <ID>).

Problem Description: Can’t read storage class metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2 and storage class configuration table; correct the problem and restart Migration/Purge Server.

MPSR0027 Metadata read error: Storage Segments-by-VV.

Problem Description: Failed to read storage segments for a particular virtual volume.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check DB2; correct the problem and restart Migration/Purge Server.

MPSR0028 Invalid notification type passed (<#>).

Problem Description: Invalid NotifyType passed to mps_SSMMPSSClassNotify. This is a programming error.
System Action: Aborts Migration/Purge Server.
Administrator Action: Restart MPS and contact the HPSS support team.

MPSR0029 Storage class type not defined in metadata (SClassId <ID>, Type <#>).

Problem Description: The type of the storage class is not DISK, nor TAPE.
System Action: Aborts Migration/Purge Server.
Administrator Action: Restart MPS and contact the HPSS support team.

MPSR0030 Metadata write error: Checkpoint info (SClassId <ID>).

Problem Description: Failed to write to MPS checkpoint file.
System Action: None, MPS will continue to function.
Administrator Action: Check DB2 and the checkpoint table.

MPSR0031 Bitfile rewritten while copies in progress (SClassId <ID>, HierId <ID>, SourceLevel <#>, TargetLevel <#>).

Problem Description: MPS has detected that a file has been rewritten while it was being migrated. This is not a problem, but rather a condition which, if it is occurring frequently, will result in inefficient use of system resources. MPS will have to migrate this file again.
System Action: None.
Administrator Action: Revisit the parameters in the migration policy. Files in this class of service may be remaining active longer than expected and it may be desirable to increase the last read and/or las update intervals.

MPSR0032 Bitfile rewritten to new hierarchy during migration run (SClassId <ID>, OldHierId <ID>, SourceLevel <#>, TargetLevel <#>).

Problem Description: MPS has detected that a file has been rewritten to a new class of service while it was being migrated. This is not a problem, but rather a condition which, if it is occurring frequently, MPS will have to migrate this file again.
System Action: None.
Administrator Action: Revisit the parameters in the migration policy. Files in this class of service may be remaining active longer than expected and it may be desirable to increase the last read and/or last update intervals.

MPSR0033 Error in mm_Initialize.

Problem Description: MPS cannot initialize the metadata library.
System Action: The MPS exits during startup.
Administrator Action: Check that the database is running. Check the database and system configurations. Contact support.

MPSR0035 Failure in pthread_cond_init.

Problem Description: Failed to initialize a mutex condition variable.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check HPSS logs for details; fix problem; restart Migration/Purge Server.

MPSR0036 Failure in pthread_cond_wait.

Problem Description: Failed to wait on a mutex condition variable.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check HPSS logs for details; fix problem; restart Migration/ Purge Server.

MPSR0037 Failure in pthread_create.

Problem Description: Failed to create a thread object and thread.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check MPS thread pool limit. Check HPSS logs for details; fix problem; restart Migration/ Purge Server.

MPSR0038 Failure in pthread_detach.

Problem Description: Failed to mark a thread object for deletion.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check HPSS logs for details; fix problem; restart Migration/ Purge Server.

MPSR0039 Failure in pthread_mutex_init.

Problem Description: Failed to initialize a mutex.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check HPSS logs for details; fix problem; restart Migration/ Purge Server.

MPSR0040 MPS register initialization error.

Problem Description: Can’t register Migration/Purge Server interface.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check HPSS logs for details and HPSS configuration; fix the problem; restart Migration/Purge Server.

MPSR0041 Bitfile open exclusively during migration run (SClassId <ID>, HierId <ID>, SourceLevel <#>, TargetLevel <#>).

Problem Description: MPS has detected that a file is being held open exclusively during a migration run. This is not a problem but rather a condition which will prevent this bitfile from being migrated.
System Action: None.
Administrator Action: Revisit the parameters in the migration policy. Files in the class of service may be remaining active longer than expected and it may be desirable to increase the last read and /or last update intervals.

MPSR0042 Bitfile deleted during migration run (SClassId <ID>, HierId <ID>, SourceLevel <#>, TargetLevel <#>).

Problem Description: MPS has detected that a file was deleted during a migration run. This is not a problem, but rather a condition which, if it is occurring frequently, will result in inefficient use of system resources.
System Action: None.
Administrator Action: Revisit the parameters in the migration policy. Files in this class of service may be remaining active longer than expected and it may be desirable to increase the last read and or last update intervals.

MPSR0043 SSM mps_ServerSet reinit not supported.

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0044 Tape migration start (SClassId <ID>, SubSysId <ID>).

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0045 Unable to end session with Core.

Problem Description: The call to core_EndSession failed; could be caused by a bad connection, or RPC runtime problems or a bad session handle passed by the mps_Tape.c.
System Action: None.
Administrator Action: Check that the Core is running. Check HPSS logs for RPC runtime errors.

MPSR0046 Unable to open session with Core.

Problem Description: The call to core_BeginSession failed; could be caused by a bad connection, or RPC runtime problems or Server memory exhausted.
System Action: Aborts the current tape migration run and go back to WAITING state.
Administrator Action: Check that the Core is running. Check HPSS logs for RPC runtime errors.

MPSR0047 Disk purge failure (SClassId <ID>, SubSysId <ID>).

Problem Description: The call to core_PurgeFile returned an error status.
System Action: For disk purge, MPS retries the core_PurgeFile call according to the error limit specified in the Core API Failures field on the MPS configuration. If the configured number of consecutive calls fail during a disk purge run, MPS will abort the run.
Administrator Action: Check that Core is running. Check for network problems. Check the log to locate the problem and consult with the HPSS support team.

MPSR0048 **Incorrect number of copies made (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>, Copies <#>, PathName <Fileset Name>:<Path Name>).**

Problem Description: An internal check has failed regarding the number of copies which disk migration has made for a bitfile.
System Action: Aborts Migration/Purge Server.
Administrator Action: Contact the HPSS customer support team.

MPSR0049 **Server startup complete.**

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0050 **Tape migration error (SClassId <ID>, SubSysId <ID>).**

Problem Description: The Migration/Purge Server aborts the current tape migration run. There must be some other messages that described the real problem logged before this one.
System Action: For tape migration, MPS retries the core_MigrateFile call according to the error limit specified in the Core API Failures field on the MPS configuration. If the configured number of consecutive calls fail curing a disk purge run, MPS will abort the run.
Administrator Action: Make sure there is sufficient free space in the target storage class. Check for a media failure in either the source or target storage classes. Check for network problems. Check the log to locate the problem and consult with the HPSS support team.

MPSR0051 **Tape migration end (SClassId <ID>, SubSysId <ID>, <#> bytes migrated, <#> moved laterally, <#> extra).**

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0053 **Tape file migration could not get VV Attributes (SubSysId <ID>, ObjectId <ID>, ServerId <ID>).**

Problem Description: Tape file migration was unable to get the specified virtual volume's attributes (this failure comes from core_GetStorageMapAttrs). In this case, the virtual volume is specified by SOID (ObjectId & ServerId).
System Action: Aborts the migration run.
Administrator Action: Verify that the Core Server is running. Resolve any server connection issues the system may be having. Contact HPSS Customer Support.

MPSR0054 **Tape file migration could not set VV Attributes (SubSysId <ID>, Volume <Name>).**

Problem Description: Tape file migration was unable to set the specified virtual volume's attributes.
System Action: Aborts the migration run.
Administrator Action: Verify that the Core Server is running. Resolve any server no connection issues the system may be having. Contact HPSS Customer Support.

MPSR0055 Lost connection to server: <ServerName>.

Problem Description: A server to which MPS connects is down.
System Action: None.
Administrator Action: Restart the server.

MPSR0056 Cannot connect to server: <ServerName>.

Problem Description: MPS cannot connect to a server of which it is a client.
System Action: None.
Administrator Action: Restart the server to which the MPS cannot connect.

MPSR0057 Maximum storage classes exceeded (Count <#>).

Problem Description: The total number of storage classes defined in metadata is more than the number allowed in hpss_limits.idl.
System Action: Ignores those storage classes that are defined behind the limit.
Administrator Action: Report this problem to HPSS team.

MPSR0058 Tape migration could not get VV Attributes (SubSysId <ID>, ObjectId <ID>, ServerId <ID>).

Problem Description: Tape volume migration was unable to get the specified virtual volume's attributes (this failure comes from core_GetVVAttrs). In this case, the virtual volume is specified by SOID (ObjectId & ServerId).
System Action: Aborts the migration run.
Administrator Action: Verify that the Core Server is running. Resolve any server connection issues the system may be having. Contact HPSS Customer Support.

MPSR0059 Memory allocation failed (size <#>).

Problem Description: There isn't enough memory for Migration/Purge Server to allocate memory.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check the system and allocate more memory for Migration/Purge Server; restart Migration/Purge Server.

MPSR0060 Metadata read error: hierarchy (HierId <ID>).

Problem Description: MPS cannot read a particular hierarchy from metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Verify the MPS and hierarchy configurations, verify the hierarchy metadata file exists and that it has the correct ACL. Finally, verify that DB2 is running.

MPSR0061 Metadata read error: all storage classes.

Problem Description: Migration/Purge isn't able to read the storage class metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check the storage class table; fix the problem; restart Migration/Purge Server.

MPSR0062 Reread migration policy (SClassId <ID>, PolicyId <ID>, SubSysId <ID>).

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0063 Disk migration start (SClassId <ID>, SubSysId <ID>).

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0064 Disk migration end (SClassId <ID>, SubSysId <ID>, Files <#>, Bytes <#>, Errors <#>).

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0065 Disk purge start (SClassId <ID>, SubSysId <ID>).

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0066 Disk purge end (SClassId <ID>, SubSysId <ID>, Files <#>, Bytes <#>, <#> of <#> Locks Expired, Errors <#>).

Problem Description: None, informational.
System Action: None.
Administrator Action: None.

MPSR0067 Hierarchy not found (HierId = <ID>).

Problem Description: MPS has been unable to locate a metadata record in its cache for a hierarchy referenced in another metadata record. MPS has discovered that it is running with an inconsistent set of class of service, hierarchy, and storage class metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check configuration, restart MPS and contact the HPSS customer support team.

MPSR0068 Class of service not found (COSId = <ID>).

Problem Description: MPS has been unable to locate a metadata record in its cache for a class of service referenced in another metadata record. This is an internal MPS error. MPS has discovered that it is running with an inconsistent set of hierarchy, class of service, and storage class metadata.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check configuration; restart Migration/Purge Server.

MPSR0069 Storage class not found in class of service (COSId = <ID>, SClassId = <ID>).

Problem Description: A storage class has been found which is not referenced by any class of service.
System Action: None, informational.
Administrator Action: Check class of service and hierarchy configurations.

MPSR0070 Storage class not found in hierarchy (HierId = <ID>, SClassId = <ID>).

Problem Description: MPS has been unable to locate a metadata record for a given storage class within a hierarchy where it thinks it should be.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check configuration, restart MPS and contact the HPSS customer support team.

MPSR0072 Reread purge policy (SClassId <ID>, PolicyId <ID>, SubSysId <ID>).

Problem Description: None; informational.
System Action: None.
Administrator Action: None.

MPSR0074 hpss_SECAudit failed.

Problem Description: The call to hsec_Audit returned an error status.
System Action: Log message and returns HPSS_EPERM to the calling routine.
Administrator Action: Check HPSS logs for detailed info; fix the problem.

MPSR0075 Initialize caller auth vector failed.

Problem Description: Can’t Initialize caller auth vector.
System Action: Aborts Migration/Purge Server.
Administrator Action: Verify and fix the security setups for HPSS; restart Migration/Purge Server.

MPSR0076 Storage class not found in any hierarchy (SClassId = <ID>).

Problem Description: MPS has been unable to locate a metadata record for a given storage class within any active hierarchy it knows of.
System Action: Aborts Migration/Purge Server.
Administrator Action: Check configuration, restart MPS and contact the HPSS customer support team.

MPSR0077 **Disk migration skipping bitfile because virtual volume condition is 'down' (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>, PathName <Fileset Name>:<Path Name>).**

Problem Description: Disk migration cannot migrate the specified bitfile because the disk volume on which the bitfile resides is locked.
System Action: Disk migration skips the bitfile and proceeds to the next. This condition does not count against the MPS's Core API error limit for the migration run.
Administrator Action: Unlock the disk volume, if so desired.

MPSR0078 **Failure in hpss_RPCUnregisterService.**

Problem Description: Can't unregister Migration/Purge interface or connection manager services before aborting the Migration/Purge server.
System Action: None.
Administrator Action: Check logs for detailed errors. Contact support if needed.

MPSR0079 **Tape migration skipping volume because virtual volume condition is 'down' (SClassId <ID>, ObjectId <ID>, ServerId <ID>).**

Problem Description: Tape migration cannot process the specified EOM virtual volume because it is locked.
System Action: The virtual volume is skipped.
Administrator Action: Unlock the virtual volume, if so desired.

MPSR0080 **There is no storage class specified for this MPS.**

Problem Description: There is no storage classes specified for this Migration/Purge Server.
System Action: Terminates the Migration/Purge Server.
Administrator Action: If this isn't intentional, fix the problem and restart Migration/Purge Server.

MPSR0081 **Caller authorization failed.**

Problem Description: The Caller isn't authorized to make the API calls.
System Action: Returns error status to caller.
Administrator Action: Verify the ACL; fix the problem if this isn't intentional.

MPSR0082 **Reconnected to server: <Server Name>.**

Problem Description: MPS has successfully reconnected to a server of which it is a client.
System Action: None.
Administrator Action: None.

MPSR0083 **Storage class warning threshold exceeded (SClassId <ID>, SubSysId <ID>).**

Problem Description: The warning threshold of a particular storage class exceeded the value specified in the storage class configuration.
System Action: None.
Administrator Action: Review the allocation of storage space for the storage class to determine whether additional space can be allocated. If the storage class is configured to support migration/purge, review the migration/purge policy to determine whether they can be tuned to free up more space sooner. A force migration/purge may be used to free up eligible space immediately.

MPSR0085 Storage class critical threshold exceeded (SClassId <ID>, SubSysId <ID>).

Problem Description: The critical threshold of a particular storage class exceeded the value specified in the storage class configuration.
System Action: None.
Administrator Action: Review the allocation of storage space for the storage class to determine whether additional space can be allocated. If the storage class is configured to support migration/purge, review the migration/purge policy to determine whether they can be tuned to free up more space sooner. A force migration/purge may be used to free up eligible space immediately.

MPSR0086 Migration record found for nonexistent file.

Problem Description: A migration record was found for a bitfile which no longer exists. This is an internal HPSS error.
System Action: None.
Administrator Action: Contact the HPSS customer support team.

MPSR0087 Purge record found for nonexistent file.

Problem Description: A purge record was found for a bitfile which no longer exists. This is an internal HPSS error.
System Action: None.
Administrator Action: Contact the HPSS customer support team.

MPSR0089 Failure in pthread_mutex_trylock.

Problem Description: A call to pthread_mutex_trylock failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify HPSS Customer Support if the problem persists.

MPSR0090 Failure in pthread_join.

Problem Description: A call to pthread_join failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0091 Failure in pthread_mutex_destroy.

Problem Description: A call to pthread_mutex_destroy failed.
System Action: Aborts Migration/Purge Server.

Administrator Action: Notify the HPSS development team if problem persists.

MPSR0092 Failure in pthread_cond_timedwait.

Problem Description: A call to pthread_cond_timedwait failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0093 Failure in pthread_cond_broadcast.

Problem Description: A call to pthread_cond_broadcast failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0094 Failure in pthread_cond_destroy.

Problem Description: A call to pthread_cond_destroy failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0095 Failure in pthread_cond_signal.

Problem Description: A call to pthread_cond_signal failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0096 Failure in pthread_get_expiration.

Problem Description: A call to pthread_get_expiration_np failed.
System Action: Aborts Migration/Purge Server.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0097 Error deleting migration record.

Problem Description: An error occurred while deleting a migration record.
System Action: None.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0098 Error deleting purge record.

Problem Description: An error occurred while deleting a purge record.
System Action: None.
Administrator Action: Notify the HPSS development team if problem persists.

MPSR0099 Storage class critical threshold cleared (SClassId <ID>, SubSysId <ID>).

Problem Description: A storage class critical threshold condition as been cleared.
System Action: Clears Migration/Purge Server’s status if no other problems exist.
Administrator Action: None.

MPSR0100 Storage class warning threshold cleared (SClassId <ID>, SubSysId <ID>).

Problem Description: A storage class warning threshold condition has been cleared.
System Action: Clears Migration/Purge Server's status if no other problems exist.
Administrator Action: None.

MPSR0101 Tape lateral move error (SClassId <ID>, SubSysId <ID>).

Problem Description: core_MoveSegment returned an error status.
System Action: During tape migration, MPS retries the call according to the error limit specified in the Core API Failures field on the MPS configuration. If the configured number of consecutive calls fail during a tape migration run, the run is aborted.
Administrator Action: Make sure there is sufficient free space in the storage class for which the lateral move failed. Check for a media or network failure. Check the log to locate the problem and consult with the HPSS support team.

MPSR0102 Underflow error.

Problem Description: MPS has encountered an underflow error.
System Action: None, but migration or purge may not move the correct number of bytes.
Administrator Action: Restart MPS. Report this problem to the HPSS team.

MPSR0103 Division by zero error.

Problem Description: MPS has encountered a division by zero error.
System Action: None, but migration or purge may not move the correct number of bytes.
Administrator Action: Restart MPS. Report this problem to the HPSS team.

MPSR0104 Time has gone backwards by a small amount. Migration/purge will run as normal.

Problem Description: MPS observes a small discrepancy between the system clock and a migration checkpoint. The MPS assumes that the host on which it is running has just booted and has not yet synchronized its system clock with an NTP server. This is an informational message.
System Action: Migration continues as normal, as though the discrepancy does not exist.
Administrator Action: None.

MPSR0105 Tape file migration cleanup of virtual volume condition failed.

Problem Description: Cleanup of locked virtual volumes from a prior MPS run failed
System Action: Log message.
Administrator Action: Check HPSS logs to determine exact cause of error. If any maps are left in a locked condition, they may have to be reset manually.

MPSR0106 Metadata read error: migration record (SClassId <ID>).

Problem Description: MPS cannot read from the migration record table.
System Action: Migration run is aborted.
Administrator Action: Check migration record table; restart MPS.

MPSR0107 Metadata read error: purge record (SClassId <ID>): <MMLIB error text>.

Problem Description: MPS cannot read from the purge record table.
System Action: Purge run aborts.
Administrator Action: If this error message repeats with high frequency, check the purge record table and restart MPS.

MPSR0108 Tape migration calling core_GetTapeVolumeAttrs.

Problem Description: Tape migration is calling core_GetVVAttrs.
System Action: None, informational.
Administrator Action: None.

MPSR0109 Tape migration core_GetTapeVolumeAttrs complete .

Problem Description: Tape migration has returned from core_GetVVAttrs.
System Action: None, informational.
Administrator Action: None.

MPSR0110 Tape file migration skipping volume which has become active (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>, TotalNumReads <#>, Volume <VolName>).

Problem Description: Tape file migration has detected that its source volume has become active during a migration. In an effort to avoid conflicting with a user's access to this volume, it will be skipped. The volume will be reconsidered for migration during the next run.
System Action: Volume is skipped for migration until the next run.
Administrator Action: If this is happening frequently, consider increasing the migration runtime interval. Otherwise, this situation is benign. If user activity is consistently denying migration from a set of tape volumes, consider altering the Max Active File Delay in the tape migration policy.

MPSR0111 Could not make local connection to Core Server.

Problem Description: MPS could not connect to Core Server.
System Action: Aborts the migration run.
Administrator Action: Verify that the Core Server is configured and running.

MPSR0113 Metadata read error: threshold policy (SClassId <ID>, SubSysId <ID>).

Problem Description: A threshold policy specified by a storage class cannot be read from metadata.
System Action: Aborts Migration/Purge Server

Administrator Action: Check the storage class configuration. Check DB2. Contact the HPSS support team. Restart MPS.

MPSR0114 Configuration error: no default migration policy (PolicyId <ID>, SClassId <ID>).

Problem Description: The default migration policy, specified for a storage class, cannot be read from metadata.
System Action: Aborts Migration/Purge server.
Administrator Action: Verify the migration policy file name in the HPSS configuration. Check DB2. Correct the configuration problem. Restart MPS.

MPSR0115 Configuration error: no default purge policy (PolicyId <ID>, SClassId <ID>).

Problem Description: The default purge policy which is specified for a storage class cannot be read from metadata.
System Action: Aborts Migration/Purge server.
Administrator Action: Verify the purge policy file name in the HPSS configuration. Check DB2. Correct the configuration problem. Restart MPS.

MPSR0116 Migration building candidate list (SClassId <ID>, HierId <ID>, SubSysId <ID>).

Problem Description: Disk migrating has begun building a list of migration candidates.
System Action: None.
Administrator Action: None this is an information message only.

MPSR0117 Migration candidate list complete (SClassId <ID>, HierId <ID>, FamilyId <ID>, SubSysId <ID>, Candidates <#>).

Problem Description: Disk migration has finished building a list of migration candidates
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0118 Disk migration creating threads (SClassId <ID>, HierId <ID>, SubSysId <ID>, Threads <#>).

Problem Description: Disk migration is creating the migration threads
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0119 Disk migration threads complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, Threads <#>).

Problem Description: All of the disk migration threads are complete.
System Action: None, informational.
Administrator Action: None.

MPSR0120 **Migration thread calling core_OpenFile (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>).**

Problem Description: Disk migration is calling core_OpenFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0121 **Migration thread core_OpenFile complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>).**

Problem Description: Disk migration has returned from core_OpenFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0122 **Migration thread calling core_MigrateFile (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>).**

Problem Description: Disk migration is calling core_MigrateFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0123 **Migration thread core_MigrateFile complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>).**

Problem Description: Disk migration has returned from core_MigrateFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0124 **Migration thread calling core_CloseFile (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>).**

Problem Description: Disk migration is calling core_CloseFile
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0125 **Migration thread core_CloseFile complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>).**

Problem Description: Disk migration has returned from core_CloseFile
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0126 **Disk purge building candidate list (SClassId <ID>, SubSysId <ID>).**

Problem Description: Disk purge has begun building a list of purge candidates.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0127 Disk purge candidate list complete (SClassId <ID>, SubSysId <ID>, Candidates <#>).

Problem Description: Disk purge has finished building a list of purge candidates.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0128 Disk purge calling core_OpenFile (SClassId <ID>, SubSysId <ID>).

Problem Description: Disk purge is calling core_OpenFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0129 Disk purge core_OpenFile complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Disk purge has returned from core_OpenFile
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0130 Disk purge calling core_PurgeFile (SClassId <ID>, SubSysId <ID>).

Problem Description: Disk purge is calling core_PurgeFile
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0131 Disk purge core_PurgeFile complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Disk purge has returned from core_PurgeFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0132 Disk purge calling core_CloseFile (SClassId <ID>, SubSysId <ID>).

Problem Description: Disk purge is calling core_CloseFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0133 Disk purge core_CloseFile complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Disk purge has returned from core_CloseFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0134 Tape migration selecting a source VV (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration is selecting a source VV.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0135 Tape migration source VV selection complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration has finished selecting a source VV.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0136 Tape migration calling core_OpenFile (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration is calling core_openFile
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0137 Tape migration core_OpenFile complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration has returned from core_OpenFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0138 Tape migration calling core_MigrateFile (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration is calling core_MigrateFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0139 Tape migration core_MigrateFile complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration has returned from core_MigrateFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0140 Tape migration calling core_CloseFile (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration is calling core_CloseFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0141 Tape migration core_CloseFile complete (SClassId <ID>, SubSysId <ID>)

Problem Description: Tape migration has returned from core_CloseFile.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0142 Tape migration calling core_MoveSegment (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration is calling core_MoveSegment
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0143 Tape migration core_MoveSegment complete (SClassId <ID>, SubSysId <ID>).

Problem Description: Tape migration has returned from core_MoveSegment.
System Action: None.

Administrator Action: None, this is an informational message only.

MPSR0144 Tape migration building candidate list (SubSysId <ID>)

Problem Description: Tape migration has begun building a list of segments on the selected VV.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0145 Tape migration candidate list complete (SubSysId <ID>, Segments <#>)

Problem Description: Tape migration has finished building a list of segments on the selected VV.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0146 Server self-aborting due to previous error.

Problem Description: MPS is aborting itself due to an error.
System Action: The MPS process exits.
Administrator Action: This should always be accompanied by at least one other MPS error message, describing the problem. Use that message to diagnose and solve the problem

MPSR0147 COS in bitfile descriptor does not point to same hierarchy as migration record (BfDesc.COSId = <ID>, COS[<ID>].HierId = <ID>, MigRec.HierId = <ID>).

Problem Description: Disk migration has encountered a situation where the bitfile descriptor and the migration record for a given bitfile are inconsistent
System Action: Aborts Migration/Purge server.
Administrator Action: This is an internal HPSS error. Contact the HPSS customer support team.

MPSR0148 Tape file migration start (SClassId <ID>, SubSysId <ID>).

Problem Description: A tape file migration run is beginning.
System Action: A tape file migration run starts.
Administrator Action: None, this is an informational message only.

MPSR0149 Tape file migration end (SClassId <ID>, SubSysId <ID>, Files <#>, Bytes <#>, Volumes <#>, Active <#>, Down <#>, Errors <#>).

Problem Description: A tape file migration run is ending.
System Action: A tape file migration run ends.
Administrator Action: None, this is an informational message only.

MPSR0150 Tape file migration failure (SClassId <ID>, HierId <ID>, SubSysId <ID>).

Problem Description: An error occurred during a tape file migration run.

System Action: After the number of Core Server API errors specified in the MPS configuration, the migration run is aborted.
Administrator Action: Use accompanying error messages to diagnose the problem.

MPSR0151 **Tape file migration could not get file extended attributes (SClassId <ID>, HierId <ID>, SubSysId <ID>).**

Problem Description: An error occurred a the call to core_BitfileGetXAttrs.
System Action: After the number of Core Server API errors specified in the MPS configuration, the migration run is aborted.
Administrator Action: Use accompanying error messages to diagnose the problem.

MPSR0152 **Tape file migration skipping volume because virtual volume condition is 'down' (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>, Volume <Name>).**

Problem Description: Tape file migration is skipping the specified tape volume because it is locked.
System Action: The locked tape volume is skipped.
Administrator Action: Unlock the tape volume, if so desired.

MPSR0153 **Tape file migration building volume list (SClassId <ID>, HierId <ID>, SubSysId <ID>).**

Problem Description: Tape file migration has begun building a list of tape VVs.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0154 **Tape file migration volume list complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, Volumes %d, Files %d).**

Problem Description: Tape file migration has finished building a list of tape VVs.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0155 **Tape file migration building candidate list (SClassId <ID>, HierId <ID>, SubSysId <ID>).**

Problem Description: Tape file migration has begun building a list of migration candidates.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0156 **Tape file migration candidate list complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, Files <#>).**

Problem Description: Tape file migration has finished building a list of migration candidates.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0157 Tape file migration calling core_BitfileGetXAttrs (SubSysId <ID>).

Problem Description: Tape file migration has called core_BitfileGetXAttrs to determine the home VV on which a migration candidate resides.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0158 Tape file migration core_BitfileGetXAttrs complete (SubSysId <ID>).

Problem Description: Tape file migration has returned from core_BitfileGetXAttrs.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0159 Tape file migration creating thread (SClassId <ID>, HierId <ID>, SubSysId <ID>, Thread <#>).

Problem Description: Tape file migration has created a migration thread for a VV.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0160 Tape file migration thread complete (SClassId <ID>, HierId <ID>, SubSysId <ID>, Thread <#>).

Problem Description: A tape file migration thread has completed.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0161 Tape file migration calling core_GetTapeVolumeAttrs.

Problem Description: Tape migration calling core_GetTapeVolumeAttrs to get attributes of a virtual volume.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0162 Tape file migration core_GetTapeVolumeAttrs complete.

Problem Description: Call to core_GetTapeVolumeAttrs complete.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0163 Tape file migration calling core_SetTapeVolumeAttrs.

Problem Description: Tape migration calling core_SetTapeVolumeAttrs to set attributes of a virtual volume.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0164 Tape file migration core_SetTapeVolumeAttrs complete.

Problem Description: Call to core_SetTapeVolumeAttrs complete.
System Action: None.
Administrator Action: None, this is an informational message only.

MPSR0166 Tape file migration competing with user read (SClassId <ID>, HierId <ID>, SubSysId <ID>, SourceLevel <#>, TargetLevel <#>, TotalNumReads <#>, Volume <Name>).

Problem Description: A user is attempting to read data from a tape that is being used for tape migration.
System Action: Tape migration on this tape may be abandoned temporarily.
Administrator Action: None, this is an informational message only.

MPSR0167 I failed to start a batch session with the Core Server. You will experience degraded migration performance (SClassId <ID>, HierId <ID>, SubSysId <ID>).

Problem Description: The server failed to start a batch session with the CoreServer.
System Action: In the case of disk migration, migration will continue, but in single file mode. In the case of tape file migration, migration will likely fail.
Administrator Action: Examine HPSS logs to determine exact cause of error. Contact IBM HPS Support if needed.

MPSR0168 I failed to end a batch session with the Core Server. Unless this occurs repeatedly, you may safely ignore this error (SClassId <ID>, HierId <ID>, SubSysId).

Problem Description: The server failed to end a batch session that it had previously constructed with the Core Server.
System Action: None.
Administrator Action: Ignore isolated cases of this error. If the error occurs repeatedly and frequently, examine HPSS logs to determine the exact cause of the error.

MPSR0169 MMLIB text: <error text>.

Problem Description: Detailed information from DB2 on metadata operation failure.
System Action: None.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the database failure. Contact support if needed.

MPSR0170 Disk migration continues for Storage Class <ID> (SubSysId <ID>).

Problem Description: The current migration from disk continues to run. This occurs every runtime interval until the migration finishes.
System Action: New candidate files for migration are discovered by the MPS.
Administrator Action: None, this is an informational message only.

MPSR0171 Invalid state passed to disk migration PrepareNotification aggregator (SClassId <ID>, SubSysId <ID>).

Problem Description: A call to the mps_PrepareNotification information aggregator has been made incorrectly.
System Action: None.
Administrator Action: Contact HPSS support.

MPSR0172 Cannot find Hierarchy <ID> in aggregator list (SubSysId <ID>).

Problem Description: The storage hierarchy could not be found in one of the server's internal hierarchy lists.
System Action: The server may abort itself.
Administrator Action: Restart the server, if necessary, and contact HPSS support.

MPSR0173 Invalid storage class ID (SClassId = <ID>).

Problem Description: No Storage Class ID has been passed into the disk migration aggregator. This is a sanity check and should not occur unless inadequate local code modifications have been made.
System Action: None.
Administrator Action: Contact HPSS support.

MPSR0174 Invalid storage class index (SClassIdx = <ID>).

Problem Description: An invalid storage class index has been passed into the disk migration aggregator. This is a sanity check and should not occur unless inadequate local code modifications have been made.
System Action: None.
Administrator Action: Contact HPSS support.

MPSR0175 Migration thread calling core_MigrateBatch (SClassId <#>, HierId<#>, SubSysId <#>, SourceLevel <#>, TargetLevel <#>).

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0176 Migration thread core_MigrateBatch complete (SClassId <#>, HierId<#>, SubSysId <#>, SourceLevel <#>, TargetLevel <#>).

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0177 A subordinate batch migration thread has an invalid session ID (SessionID = <ID>).

Problem Description: A subordinate batch migration thread has found that it has no session ID. This situation cannot occur under normal circumstances and likely indicates a software bug.
System Action: The server will abort.
Administrator Action: Restart the server and contact HPSS support.

MPSR0178 Reached a list boundary unexpectedly: <list name>.

Problem Description: An internal data structure is an unexpected size. This indicates a software bug.
System Action: None.
Administrator Action: Contact HPSS support.

MPSR0179 Metadata read error: bitfile owner of tape segment (SClassId <ID>).

Problem Description: The system could not retrieve the bitfile ID associated with a certain tape segment.
System Action: The system continues onward, ignoring the problematic tape segment.
Administrator Action: If the problem occurs on a frequent or continual basis, contact HPSS support.

MPSR0180 Metadata read error: no bitfile associated with storage segment on tape volume <Name> (SClassId <ID>).

Problem Description: There is no bitfile ID associated with a certain tape segment. This likely indicates a metadata inconsistency.
System Action: The system continues onward, ignoring the problematic tape segment.
Administrator Action: Contact HPSS support.

MPSR0181 Unable to migrate a file in a batch: migrating as a single file instead.

Problem Description: The server has run across a file that either is not a valid batch migration candidate or has experienced too many batch migration errors.
System Action: The server will migrate the file as a single file rather than as part of a batch.
Administrator Action: None.

MPSR0182 <#> out of <#> batch migration candidates must be migrated as single files (SClassId <#>, HierId <#>, SubSysId <#>, SourceLevel <#>, TargetLevel <#>).

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0183 Unexpected negative value: <variable name> = <value>

Problem Description: The server has run across a variable that should never contain a negative value and, yet, does. This likely indicates a software bug.

System Action: The server will reset its state to a valid and known configuration.
Administrator Action: If the problem occurs frequently, contact HPSS support.

MPSR0184 Cannot find Family <ID> in list (SubSysId <ID>).

Problem Description: A family could not be found in the disk migration's file family list.
System Action: The server will self-heal and continue onward.
Administrator Action: Contact HPSS support.

MPSR0185 Please be patient: shutdown delayed by running migrations, waiting until migrations finish.

Problem Description: The server has been told to shut itself down while migrations are currently running.
System Action: The server will tell all the running migrations to stop, wait for them to stop, and then shut itself down.
Administrator Action: Wait patiently. If it is imperative for the MPS to stop immediately, please use the SSM GUI Force Halt button.

MPSR0186 Unable to migrate a file in a batch: will try again later in a new batch.

Problem Description: The server has run across a file that, temporarily, cannot be migrated as part of a batch.
System Action: The server will set the file aside and try again later to migrate the file as part of a batch.
Administrator Action: None.

MPSR0188 Unexpected error code: <error code>. Please contact your HPSS Support Representative.

Problem Description: An unexpected error code was received.
System Action: None.
Administrator Action: Contact IBM HPSS Support.

MPSR0189 Hierarchy <ID #> in COS <ID #> is constructed incorrectly. Please contact IBM HPSS Support. (NextLevel = <Storage Class ID> not equal to TargetLevel = <Storage Class ID>)

Problem Description: The hierarchy is constructed such that the target migration level is not the next level in the hierarchy. The rules for tape migration state that migration may not skip levels in the hierarchy.
System Action: The migration aborts.
Administrator Action: Please ensure that no files have been migrated using the hierarchy. If files have been migrated, contact IBM HPSS Support immediately.
In addition, reconstruct the hierarchy so that, as displayed by the SSM GUI, the specified migration target level is located directly below its source level.

MPSR0190 There are more families migrating than allowed by the migration policy. (SClassId = <Storage Class ID>)

Problem Description: As the MPS is going about the task of refreshing its internal candidate lists, it has noticed that there are migrations running for more families than allowed by the migration policy.
System Action: The MPS will only refresh the candidate lists for as many families as are allowed by the migration policy.
Administrator Action: The source of this situation is likely a bug. Please contact IBM HPSS Support.

MPSR0191 Refreshing currently running migrations. (SClassId <Storage Class ID>, SubSysId <Subsystem ID>)

Problem Description: This is an informational message and does not indicate a problem.
System Action: The MPS is refreshing its internal candidate lists.
Administrator Action: N/A

MPSR0192 Finished refreshing currently running migrations. (SClassId <Storage Class ID>, SubSysId <Subsystem ID>)

Problem Description: This is an informational message and does not indicate a problem.
System Action: The MPS has finished refreshing its internal candidate lists.
Administrator Action: N/A

MPSR0193 MPS Force Migrate (<Thread ID>): The first line of the input file should be a positive integer representing the number of migration streams to use.

Problem Description: The first line of the MPS Force Migrate input file is not a positive integer.
System Action: The Force Migrate attempt will abort.
Administrator Action: As the first line in the MPS Force Migrate input file, enter the number of migration streams to use for the MPS Force Migrate session.

MPSR0194 MPS Force Migrate (<Thread ID>): Bitfile ID #<Line Number> could not be converted to binary from text.

Problem Description: The MPS Force Migrate input file contains a malformed Bitfile ID.
System Action: The input file’s line containing the bad Bitfile ID will be skipped.
Administrator Action: Examine and correct the bitfile ID on the specified line number of the input file. The bitfile ID should be in DB2 hex format.

MPSR0195 MPS Force Migrate (<Thread ID>): Bitfile ID #<Line Number> looks to be too long. It should only be 64 hex characters long.

Problem Description: The MPS Force Migrate input file contains a malformed Bitfile ID.

System Action: The input file's line containing the bad Bitfile ID will be skipped.
Administrator Action: Examine and correct the Bitfile ID on the specified line number of the input file. The bitfile ID should be in DB2 hex format.

MPSR0196 **MPS Force Migrate (<Thread ID>): I am unable to open bitfile <Line Number> in the input file. I'll skip it.**

Problem Description: The MPS could not read the specified metadata for the Bitfile ID on the specified line number of the MPS Force Migrate input file.
System Action: The Force Migrate attempt will abort.
Administrator Action: Determine the cause for the metadata read failure. If necessary, contact your IBM HPSS Support representative in order to repair the metadata. Otherwise, remove the offending bitfile ID from the input file.

MPSR0197 **MPS Force Migrate (<Thread ID>): I couldn't read the <Metadata Type> metadata for bitfile <Line Number> in the input file.**

Problem Description: The MPS could not read the specified metadata for the Bitfile ID on the specified line number of the MPS Force Migrate input file.
System Action: The Force Migrate attempt will abort.
Administrator Action: Determine the cause for the metadata read failure. If necessary, contact your IBM HPSS Support representative in order to repair the metadata. Otherwise, remove the offending bitfile ID from the input file.

MPSR0198 **MPS Force Migrate (<Thread ID>): Finished.**

Problem Description: This is an informational message.q
System Action: None.
Administrator Action: None.

MPSR0199 **MPS Force Migrate (<Thread ID>): I couldn't find any bitfile IDs in the input file.**

Problem Description: The MPS could not find any bitfile IDs in the MPS Force Migrate input file.
System Action: The Force Migrate attempt will abort.
Administrator Action: Ensure that the input file contains at least one bitfile ID.

MPSR0200 **MPS Force Migrate (<Thread ID>): I found <#> file(s) to force migrate.**

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0201 **MPS Force Migrate (<Thread ID>): <#> of <#> files <migrated | staged>.**

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0202 **MPS Force Migrate (<Thread ID>): I only staged <#> files before running out of space. I'll migrate just these files.**

Problem Description: The top level disk storage class ran out of free space while the MPS was staging files to it.
System Action: The MPS will only migrate the files it has thus far staged. It will neither attempt to migrate more files nor attempt to find more files in the input that are already in the top storage level.
Administrator Action: Free up space in the appropriate storage class or stop submitting tape-only data to the MPS force migrate until the storage class has free space.

MPSR0203 **Tape file migration migrating from active volume (SClassId <ID>, SubSysId <ID>, Volume <VolName>).**

Problem Description: The MPS has chosen to migrate from a tape volume that a user is reading or writing. This occurs when there are one or more files on the tape volume that are old enough to have crossed the migration policy's Max Active File Delay threshold.
System Action: HPSS will interleave the user and migration requests for the tape.
Administrator Action: If this occurs frequently, consider adjusting the appropriate tape migration policys' Last Read Interval, Last Update Interval, and/or Max Active File Delay.

MPSR0204 **MPS Force Migrate (<Thread ID>): Staging files to disk. This may take awhile.**

Problem Description: This is an informational message.
System Action: The MPS will attempt to stage all bitfiles in the input to the top level of the hierarchy.
Administrator Action: None.

MPSR0205 **MPS Force Migrate (<Thread ID>): Starting.**

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0206 **MPS Force Migrate (<Thread ID>): Stopping because stop file exists.**

Problem Description: This is an informational message.
System Action: None.
Administrator Action: None.

MPSR0207 **Time has gone backwards by a large amount (<#> s). Migration/purge will suspend until the system clock and server are repaired.**

Problem Description: The MPS has observed a large discrepancy (greater than five minutes) between the system clock and an MPS checkpoint.
System Action: All migration and purge will remain suspended until the problem is repaired.

Administrator Action: If the system clock is incorrect, fix the system clock. Otherwise, empty the MPS checkpoint table. Mark the MPS repaired.

MPSR0208 **The system clock still appears to be incorrect (<#> s). Migration/purge remain suspended.**

Problem Description: The MPS has been marked as repaired after noticing a large discrepancy between the system clock and a migration checkpoint. Yet, the discrepancy remains.
System Action: All migration and purge will remain suspended until the problem is repaired.
Administrator Action: If the system clock is incorrect, fix the system clock. Otherwise, empty the MPS checkpoint table. Then mark the MPS repaired.

MPSR0209 **The HPSS environment is configured for too <few | many> purge threads: <#>. The <minimum | maximum> is <#>. Continuing with <#> purge thread(s) per storage class.**

Problem Description: The number of purge threads per storage class can be customized via the HPSS_MPS_PURGE_PARALLELISM environment variable. This message is output when an HPSS sets the environment variable to an invalid value: less than one or more than ten.
System Action: If HPSS_MPS_PURGE_PARALLELISM is set to significantly more than ten, the MPS falls back to the default number of purge threads per storage class: two. If the environment variable is set to slightly more than the maximum, the MPS falls back to ten purge threads per storage class. If the variable’s value is set to zero or less, then the MPS uses the minimum number of purge threads per storage class: one.
Administrator Action: Set the HPSS_MPS_PURGE_PARALLELISM environment variable to a value in the range [1,10] and restart the MPS.

MPSR0210 **Received unexpected error from the logging subsystem: <error code> (<function name> : line <#>)**

Problem Description: The HPSS Logging subsystem is malfunctioning and returning errors. This log message, which appears in syslog, is the MPS' effort to advertise the problems it has encountered while attempting to send log entries to the HPSS Logging subsystem.
System Action: None.
Administrator Action: Diagnose and repair the problem(s) in the HPSS Logging subsystem.

MPSR0211 **Ending <activity> early because MMLIB has been shut down.**

Problem Description: The MPS is ending the specified metadata activity early because MMLIB had been shut down.
System Action: The MPS is probably shuting down.
Administrator Action: None if the intention is to shutdown; otherwise, contact HPSS Support.

MPSR0212 Exited MPS API.

Problem Description: None. Informational message indicating that the specified MPS API is exiting.
System Action: None.
Administrator Action: None.

MPSR0213 Metadata read error: force migrate.

Problem Description: There was a metadata error reading the force migrate table.
System Action: MPS will quit processing force migration records for this thread or may not be able to update a particular record.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the database failure. Contact support if needed.

MPSR0214 MPS Force Migrate: Unable to read the bitfile associated storage metadata. Skipping it. (Thread <ID>, Requestor <#>, BFID (<Bitfile ID>): <Fileset Name>:<Path Name>)

Problem Description: The MPS is unable to read the bitfile metadata for the specified bitfile. The force migration record is updated with the error. The MPS will skip this bitfile and continue onto the next.
System Action: The MPS will skip this bitfile and continue forward.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the database failure. After fixing the problem, rerun the tool associated with the Requestor (e.g., recover).

MPSR0215 Metadata write error: Force Migrate info.

Problem Description: There was a metadata error updating a force migrate record.
System Action: The MPS will continue.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the database failure. Contact support if needed. After fixing the problem, rerun the tool associated with the Requestor (e.g., recover).

MPSR0216 MPS Force Migrate: Unable to open the bitfile. Skipping it. (Thread <ID>, Requestor <#>, BFID (<Bitfile ID>): <Fileset Name>:<Path Name>)"

Problem Description: The MPS is unable to open the specified bitfile. The force migration record is updated with the error. The MPS will skip this bitfile and continue onto the next.
System Action: The MPS will skip this bitfile and continue forward.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the failure. After fixing the problem, rerun the tool associated with the Requestor (e.g., recover). It could be that the file was already open by some other application when the MPS attempted to open it.

MPSR0217 MPS Force Migrate: <#> files have been staged. Continuing to stage files. (Thread <ID>)

Problem Description: None. Informational progress message.
System Action: None.
Administrator Action: None.

MPSR0218 **MPS Force Migrate: Due to <condition>, skipping BFID (<Bitfile ID>): <Fileset Name>:<Path Name> (Thread <ID>, Requestor <#>, FM State <#>)**

Problem Description: The MPS is unable to progress on the specified bitfile due to some condition. The force migration record is updated with the error. The MPS will skip this bitfile and continue onto the next.
System Action: The MPS will skip this bitfile and continue forward.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the failure. After fixing the problem, rerun the tool associated with the Requestor (e.g., recover).

MPSR0219 **MPS Force Migrate: Unable to get the Bitfile extended attributes. Skipping it. (SClassId <ID>, HierId <ID>, SubSysId <ID>, Thread <ID>, Requestor <#>, BFID (<Bitfile ID>): <Fileset Name>:<Path Name>)**

Problem Description: The MPS is unable to to get the extended attributes for the specified bitfile. The force migration record is updated with the error. The MPS will skip this bitfile and continue onto the next.
System Action: The MPS will skip this bitfile and continue forward.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the failure. After fixing the problem, rerun the tool associated with the Requestor (e.g., recover).

MPSR0220 **MPS Force Migrate: Starting. (Thread <ID>)**

Problem Description: None. Informational progress message. A Force Migration thread has started.
System Action: None.
Administrator Action: None.

MPSR0221 **MPS Force Migrate: Staged only <#> files before running out of space. Initiating force migration on just these files. (HierID <ID>, Thread <ID>)**

Problem Description: The MPS wasn’t able to stage all the force migration candidates before running out of space at the top storage level of the hierarchy. The MPS will continue forward with force migrating the candidates that it was able to stage.
System Action: The MPS will not be able to stage any more files to the top storage level until space is made available.
Administrator Action: Consider adding more resources to the top storage level.

MPSR0222 **MPS Force Migrate: Unable to start force migration. Please check supporting logs for more details. (Thread <ID>)**

Problem Description: The MPS is unable to initiate the force migration.

System Action: The MPS can't perform the request.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the failure. After fixing the problem, rerun the tool associated with the Requestor (e.g., recover).

MPSR0223 **MPS Force Migrate: This file is already at destination level 0 thus migration is not needed. (Thread <ID>, Requestor <#>, BFID (<Bitfile ID>): <Fileset Name>:<Path Name>)**

Problem Description: None. Informational progress message. Staging the specified bitfile got it to it's destination level and thus it doesn't need to be migrated.
System Action: The MPS will continue forward skipping migrating this bitfile.
Administrator Action: None.

MPSR0224 **MPS Force Migrate: Finished a batch. <#> candidates migrated. (Thread <ID>)**

Problem Description: None. Informational progress message.
System Action: None.
Administrator Action: None.

MPSR0225 **MPS Force Migrate (disk): <#> of <#> files migrated. (SClassId <ID>, HierId <ID>, SubSysId <ID>, Errors <#>, Thread <ID>)**

Problem Description: None. Informational progress message.
System Action: None.
Administrator Action: None.

MPSR0226 **MPS Force Migrate (tape): <#> of <#> files migrated. (SClassId <ID>, HierId <ID>, SubSysId <ID>, Errors <#>, Thread <ID>)**

Problem Description: None. Informational progress message.
System Action: None.
Administrator Action: None.

MPSR0227 **MPS Force Migrate: Received request to cancel active force migration. (Thread <ID>, RequestId <ID>, OrigVVID <ID>, SrcVVID <ID>)**

Problem Description: None. Informational message.
System Action: The MPS will quiese the force migration thread associated with the Original (retired/damaged) VVID and Source (stage from) VVID. (Note: The Source VVID may be NULL indicating any Source VVID). This means that the MPS will stop as soon as it can; it will wait until the current "in flight" items are complete and won't stage or migrate new candidates associated with the force migration thread.
Administrator Action: This action was probably due to an HPSS administrator stopping a recover; verify recover progress and possibly restart later.

MPSR0228 **MPS Force Migrate: Canceled force migration request during <step>. (Thread <ID>, RequestId <ID>, OrigVVID <ID>, SrcVVID <ID>)**

Problem Description: None. Informational message.

System Action: The MPS will quiese the force migration thread associated with the Original (retired/damaged) VVID and Source (stage from) VVID. (Note: The Source VVID may be NULL indicating any Source VVID). This means that the MPS will stop as soon as it can; it will wait until the current "in flight" items are complete and won't stage or migrate new candidates associated with the force migration thread.
Administrator Action: This action was probably due to an HPSS administrator stopping a recover; verify recover progress and possibly restart later.

MPSR0229 **MPS Force Migrate: Canceling force migration request during <step>. (Thread <ID>, RequestId <ID>, OrigVVID <ID>, SrcVVID <ID>)**

Problem Description: None. Informational message.
System Action: The MPS will quiese the force migration thread associated with the Original (retired/damaged) VVID and Source (stage from) VVID. (Note: The Source VVID may be NULL indicating any Source VVID). This means that the MPS will stop as soon as it can; it will wait until the current "in flight" items are complete and won't stage or migrate new candidates associated with the force migration thread.
Administrator Action: This action was probably due to an HPSS administrator stopping a recover; verify recover progress and possibly restart later.

MPSR0230 **Invalid argument.**

Problem Description: An MPS function was called with invalid arguments.
System Action: The MPS may stop progressing on a particular request.
Administrator Action: Use information in message along with other HPSS log messages to diagnose the failure.

MPSR0231 **MPS Force Migrate: Thread <ID> was found in the FM Thread List, but it wasn't running; removing from thread list.**

Problem Description: Internal problem. An MPS force migration thread ID was found in the MPS's list of force migration (FM) threads, however it couldn't find an associated running thread.
System Action: None.
Administrator Action: Monitor for other occurrences; report to HPSS customer support.

MPSR0232 **MPS Force Migrate: Unable to purge unlock <#> force migration candidates. Consider running the HPSS plu utility. (Thread <ID>)**

Problem Description: The force migration thread was unable to purge unlock a number of force migration candidates.
System Action: Files may remain purged locked.
Administrator Action: Consider running the HPSS plu utility to unlock any purge locked files that the administrator believes should no longer be locked. It could be that the file was deleted during the force migrate / recover process and thus the MPS was unable to purge unlock the file. Note: some operations require the file to be purge locked (e.g force migration and recover), so make sure those operations are complete or are in a retry state.

MPSR0233 **MPS Force Migrate: Unable to purge lock the bitfile. (Thread <ID>, Requestor <#>, BFID (<Bitfile ID>): <Fileset Name>:<Path Name>)**

Problem Description: The force migration thread was unable to purge lock a force migration candidate.
System Action: Files can't be force migrated until they are purged locked. If the MPS can't purge lock 25 bitfiles within a force migration batch, then it will stop trying and cancel the current force migration (e.g recover) request.
Administrator Action: Consider running the HPSS plu utility to see any purge locked files that the administrator believes should no longer be locked. Note: some operations require the file to be purge locked, so make sure those operations are complete before retrying the recover or other force migration operation.

MPSR0234 *MPS Force Migrate: Reached a limit of </> purge lock failures for this batch of force migration candidates. Canceling this force migration. Please check supporting logs for more details. (Thread <ID>, Requestor </>)

Problem Description: The force migration thread was unable to purge lock a number of force migration candidates resulting in hitting a limit. This limit gives the administrator a chance to figure out why so many files are locked and thus unable to force migrate (e.g. to recover).
System Action: Files can't be force migrated until they are purged locked. If the MPS can't purge lock 25 bitfiles within a force migration batch, then it will stop trying and cancel the current force migration (e.g recover) request.
Administrator Action: Consider running the HPSS plu utility to see any purge locked files that the administrator believes should no longer be locked. Note: some operations require the file to be purge locked, so make sure those operations are complete before retrying the recover or other force migration operation.

MPSR0235 **MPS Force Migrate: Thread <ID> was not found in the FM Thread List because it was empty.**

Problem Description: Internal problem. An MPS force migration thread ID was not found in the MPS's list of force migration (FM) threads because the list is empty.
System Action: None.
Administrator Action: Monitor for other occurrences; report to HPSS customer support.

MPSR0236 **Disk migration failure (SClassId <ID>, HierId <ID>, SubSysId <ID>, Force Migrate).**

Problem Description: core_MigrateFile returned an error status during a force migrate operation. Force Migrate is used for recover.
System Action: For both disk and tape file force migration, MPS retries the core_MigrateFile call according to the error limit specified in the Core API Failures field on the MPS configuration. If the configured number of consecutive calls fails during a disk migration run, MPS will skip to the next hierarchy. This number of consecutive failures during a tape migration run leads MPS to abort the run.

Administrator Action: Make sure there is sufficient free space in the target storage class. For disk migration, verify that none of the source volumes are locked. Check for a media failure in either the source or target storage classes. Check for network problems. Check the log to locate the problem and consult with the HPSS support team.

MPSR0237 **Tape file migration failure (SClassId <ID>, HierId <ID>, SubSysId <ID>, Force Migrate).**

Problem Description: An error occurred during a tape file force migrate run. Force Migrate is used for recover.
System Action: After the number of Core Server API errors specified in the MPS configuration, the migration run is aborted.
Administrator Action: Use accompanying error messages to diagnose the problem.

Chapter 15. Physical Volume Library Error Messages (PVLS Series)

PVLS0001 **Entering.**

Source Files Generating Error Message: pvl_api.c, pvl_log.c, pvl_util.c.
Problem Description: The PVL is tracing the execution of a specific request. The name of the routine that is being entered will be part of the message text. This is not an error condition.
System Action: None.
Administrator Action: None.

PVLS0002 **Exiting.**

Source Files Generating Error Message: pvl_api.c, pvl_log.c.
Problem Description: The PVL is tracing the execution of a specific request. The name of the routine that is being exited will be part of the message text. This is not necessarily an error condition, but an error code may be displayed along with the message.
System Action: None.
Administrator Action: None.

PVLS0003 **Calling.**

Source Files Generating Error Message: pvl_client.c, pvl_mvr.c, pvl_pvr.c.
Problem Description: The PVL is tracing the execution of an upcoming specific request. The name of the routine that is being called will be part of the message text. This is not an error condition.
System Action: None.
Administrator Action: None.

PVLS0004 **Returned.**

Source Files Generating Error Message: pvl.c, pvl_activity.c, pvl_admin.c, pvl_checkin_checkout.c, pvl_client.c, pvl_import.c, pvl_job.c, pvl_mm.c, pvl_mount.c, pvl_mvr.c, pvl_poll.c, pvl_pvr.c, pvl_util.c.
Problem Description: A function called internally by the PVL recording subroutine call return values..
System Action: None - Informational only.
Administrator Action: None.

PVLS0005 **Job cancelled, client notify failed.**

Source Files Generating Error Message: pvl_client.c.
Problem Description: The PVL was unable to notify its client of a mount. JobID is the internal PVL jobid associated with the canceled job.

System Action: The client's mount job is aborted.
Administrator Action: Check HPSS log for an indication of why the PVL was unable to contact its client.

PVLS0006 Connection opened.

Source Files Generating Error Message: pvl_api.c.
Problem Description: A client to the PVL opened its connection to the PVL.
System Action: None.
Administrator Action: None, informational.

PVLS0007 Connection closed.

Source Files Generating Error Message: pvl_api.c.
Problem Description: A client to the PVL closed its connection to the PVL.
System Action: None.
Administrator Action: None, informational.

PVLS0008 Dismount reason: client request.

Source Files Generating Error Message: pvl_activity.c, pvl_dismount.c, pvl_import.c, pvl_pvr.c.
Problem Description: The PVL is dismounting a cartridge as per client request.
System Action: The cartridge will be put away.
Administrator Action: None, accounting information only.

PVLS0009 Dismount reason: label written.

Source Files Generating Error Message: pvl_import.c.
Problem Description: The PVL is dismounting a cartridge after a label has been written.
System Action: The cartridge will be put away.
Administrator Action: Informational only, note that an actual label was written.

PVLS0010 Dismount reason: no request ready.

Source Files Generating Error Message: pvl_mount.c, pvl_pvr.c.
Problem Description: The PVL is dismounting a cartridge from a drive because the cartridge is not considered active.
System Action: The cartridge will be put away.
Administrator Action: If this error continues, investigate the source of the mount request.

PVLS0011 Dismount reason: no request pending.

Source Files Generating Error Message: pvl_mount.c, pvl_pvr.c.
Problem Description: The PVL is dismounting a cartridge from a drive because there is no request pending for that cartridge.
System Action: The cartridge will be put away.

Administrator Action: If this error continues, investigate the source of the unaccounted for mounted cartridges. It may be due to an application other than HPSS or failing dismounts.

PVLS0012 PVL Initialized.

Source Files Generating Error Message: pvl.c.
Problem Description: The PVL is initialized and up.
System Action: None.
Administrator Action: None, informational.

PVLS0013 PVL Shutdown.

Source Files Generating Error Message: pvl.c, pvl_pvr.c, pvl_util.c.
Problem Description: The PVL is shutting itself down.
System Action: The PVL will terminate itself as gracefully as possible.
Administrator Action: If shutdown reason is unknown, investigate reason for termination in log.

PVLS0015 malloc failed.

Source Files Generating Error Message: pvl_admin.c, pvl_malloc.c, pvl_pvr.c.
Problem Description: The PVL was unable to get additional space for an internal structure.
System Action: Varies depending on the reason for the requested space.
Administrator Action: Check to see if the PVL has grown too large to gather more space. Not being able to get malloc space is very serious. Consider restarting the PVL. Investigate other servers and system resources for system wide conditions.

PVLS0016 Job deleted on restart, inconsistent.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated when an inconsistency in the state of a restarting job is detected.
System Action: The job with an inconsistent state is aborted.
Administrator Action: None.

PVLS0017 Job deleted on restart, non-MOUNT.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated to trace when recovering a partial import, export, move or re-label job.
System Action: The job with partial import aborted and the cartridge ejected. The job with partial export is backed out if possible. The job with partial move is undetermined. The job with the partial re-label is retried.
Administrator Action: Operation may need to be retried.

PVLS0018 Job deleted on restart, not committed.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated to trace when recovering an uncommitted job.
System Action: The job that is uncommitted is aborted.
Administrator Action: None.

PVLS0019 Job deleted on restart, synchronous mount.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated to trace when recovering an synchronous mount job.
System Action: The job is aborted.
Administrator Action: None.

PVLS0021 PVR config data missing, will not contact PVR.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: A failure occurred while trying to get information about a PVR out of metadata configuration files.
System Action: The PVL will continue working without any connection to the PVR in question.
Administrator Action: Check that PVL configuration files are set up properly in regard to PVR connections. Check that the PVR specific metadata exists for all PVR servers in the generic server metadata. Once corrected, the PVL will have to be restarted to affect a connection with the PVR in question.

PVLS0022 SIGNAL.

Source Files Generating Error Message: pvl.c.
Problem Description: The PVL handled a signal.
System Action: None.
Administrator Action: None, informational.

PVLS0023 job deleted on restart, Drive Queue inconsistent.

Source Files Generating Error Message: pvl_job.c.
Problem Description: An attempt to rebuild the PVL’s drive queue as it was coming up has failed.
System Action: The PVL deletes offending job and attempts to continue.
Administrator Action: None.

PVLS0024 Count of jobs recovered on restart.

Source Files Generating Error Message: pvl_job.c.
Problem Description: A count of the number of jobs recovered after a restart of the PVL.

System Action: None.
Administrator Action: None, informational.

PVLS0025 Count of jobs deleted on restart.

Source Files Generating Error Message: pvl_job.c.
Problem Description: A count of the number of jobs deleted after a restart of the PVL.
System Action: None.
Administrator Action: None, informational.

PVLS0026 Number of drives changed. Total Drive Count in PVL:

Source Files Generating Error Message: pvl_admin.c, pvl_pvr.c.
Problem Description: Upon initialization, drive creation and drive deletion, the PVL reports the number of drives in the system.
System Action: On startup(pvl_pvr.c), drive creation(pvl_admin.c) and drive deletion(pvl_admin.c) the newly calculated count of drives will be used to update metadata.
Administrator Action: For the create and delete drive cases, check metadata logs for any errors. Check PVL configuration file for consistency. For the startup case, no action is required.

PVLS0027 Drive in use.

Source Files Generating Error Message: pvl_admin.c, pvl_mount.c.
Problem Description: The PVR returned a mount completed on a drive the PVL believes has a cartridge mounted or in the process of being dismounted(pvl_mount.c). Return an error to PVR which will cause the cartridge to be mounted in another drive. Also will be returned when attempting to set attributes of a busy drive(pvl_admin.c).
System Action: System Action: The cartridge will be put away.
Administrator Action: None.

PVLS0028 Job recovered, mounting.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated when a mount wasn't completed (e.g. Cart Wait, Drive Wait, Mount Wait) and will be recovered.
System Action: The job will be resumed.
Administrator Action: None.

PVLS0029 Job recovered, mounted.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated for jobs in which the mount was completed (e.g. Mounted, In Use) and will be recovered.
System Action: The job will be recovered.

Administrator Action: None.

PVLS0030 Job recovered, dismounting.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated when a dismount or abort wasn't completed and will be recovered.
System Action: The job will be retried.
Administrator Action: None.

PVLS0031 Dismount reason: restart, no request pending.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Upon restart of the PVL, it tries to restart jobs that were in progress when the PVL went down. This message is generated when the PVL is dismounting a cartridge for which no request was pending.
System Action: PVL will cancel the job.
Administrator Action: Operation may need to be retried.

PVLS0033 Dismount reason: mounted on wrong drive.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The PVL is dismounting a cartridge from a drive because it was requested on a specific drive other than the one on which it was mounted.
System Action: The cartridge will be put away.
Administrator Action: This condition can occur if a drive is marked as "Locked" in the PVL, but not actually taken off-line in the robot. In this case the robot may still mount a tape to the drive and tell the PVL, but the PVL will not accept the mount. The administrator should ensure that the drive state in the PVL matches the actual state of the drive in the robot. This condition can also occur if HPSS is sharing a robot with other tape software. In this case, the PVR configuration option which indicates that "The Client Selects Drives" must be set or the PVR may mount a tape in one of the robot's drives that is being used by other tape software. After toggling the option in the PVR configuration, the PVL and PVR must be restarted.

PVLS0035 Drive assigned.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: Informational log telling the association between drive and volume.
System Action: None.
Administrator Action: None, informational.

PVLS0037 Gave up dismount after many tries.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The PVL was unable to contact a PVR and gave up after many retries.

System Action: The request is aborted. This occurs only on dismount requests.
Administrator Action: Check the state of the PVR controlling the specified drive.

PVLS0038 **Dismount reason: mount failed.**

Source Files Generating Error Message: pvl_import.c, pvl_mount.c, pvl_poll.c.
Problem Description: The PVL is dismounting a cartridge from a drive because the job failed to mount all the cartridges it requested.
System Action: The cartridge will be put away.
Administrator Action: None.

PVLS0039 **Dismount reason: wrong volume on drive.**

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The PVL is dismounting a cartridge from a drive because the internal label on the cartridge does not match the cartridge ID which the PVR supplied to the PVL.
System Action: The cartridge will be put away.
Administrator Action: Inspect cartridge for internal/external label mismatch.

PVLS0040 **Dismount reason: unlabeled.**

Source Files Generating Error Message: pvl_mount.c, pvl_poll.c.
Problem Description: The PVL is dismounting a cartridge from a drive because an unlabeled tape was mounted in the drive and there is no pending import.
System Action: The cartridge will be put away.
Administrator Action: This will normally occur when a blank cartridge is manually placed in a drive. It is possible for this error to occur when attempting to import tapes using operator mounted drives. In this case the PVL will not accept the tape unless the PVR’s configuration option is set to specify that "The PVR Does Not Notify The Client When a Tape is Mounted." If the option is toggled, the PVL and PVR must be restarted.

PVLS0041 **Dismount reason: foreign label.**

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The PVL is dismounting a cartridge from a drive because it contains a non-HPSS label (such as a standard ANSI label), and the volume is not identified as a foreign volume OR the cartridge contains an HPSS label and the volume is identified as a foreign volume.
System Action: The cartridge will be put away.
Administrator Action: If this occurs mounting a tape that is part of the HPSS system, the tape or drive may be failing. If the intent is to import a pre-labeled tape the import request must correctly identify it as either HPSS or foreign. If the error occurs while trying to import a scratch tape, then it is likely that the tape was not fully degaussed or has some user data on it. If this is the case, the tape must be manually erased before HPSS will overwrite it during an import. It is not necessary to erase all data on the tape, simply mount it in a drive that is not part of the HPSS system

and write two tape marks at the beginning of the tape. Then retry the HPSS import operation.

PVLS0042 Dismount reason: non-labeled.

Source Files Generating Error Message: pvl_import.c, pvl_mount.c, pvl_poll.c.
Problem Description: The PVL is dismounting a cartridge from a drive because the tape has data on it and no internal label.
System Action: The cartridge will be put away.
Administrator Action: If the intent is to import it as a scratch tape, the tape must be manually erased before HPSS will overwrite it during an import. It is not necessary to erase all data on the tape, simply mount it in a drive that is not part of the HPSS system and write two tape marks at the beginning of the tape. Then retry the HPSS import operation.

PVLS0043 Dismount reason: wrong PVR.

Source Files Generating Error Message: pvl_import.c.
Problem Description: The PVL is dismounting a cartridge from a drive because it was mounted on a drive controlled by the wrong PVR.
System Action: The cartridge will be put away.
Administrator Action: If this is an import operation the operator must specify the correct PVR, or mount the volume on a drive in the intended PVR.

PVLS0044 Cache Overflow.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: The PVL ran out of space in its array of cached messages to deliver to its clients.
System Action: A background thread attempts to deliver queued messages to PVL clients. When the queue of messages is full, the PVL will wait 1 minute for the background thread to clear the queue. In the meantime, any new messages will be discarded until space is cleared in the message queue.
Administrator Action: Check the status of PVL clients SSM and Core server. Often this error occurs when communication between the SSM and PVL breaks down. If the error continues, consider recycling the SSM.

PVLS0045 Fixed Volume Mounted.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: Informational log that a fixed media drive (e.g. disk) has been found. This trace message is logged during initialization for enabled drives or when a drive is later enabled.
System Action: None.
Administrator Action: None, informational.

PVLS0047 Internal Error.

Source Files Generating Error Message: pvl_activity.c, pvl_admin.c, pvl_checkin_checkout.c, pvl_dismount.c, pvl_import.c, pvl_job.c, pvl_mount.c, pvl_pvr.c, pvl_util.c.
Problem Description: An internal table or structure is inconsistent or damaged.
System Action: None.
Administrator Action: Check logs for errors. Check PVL and PVR configuration files for consistency.

PVLS0048 Client attempted to mount a volume it does not have allocated.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: Attempted an operation on a cartridge that is not allocated to the client.
System Action: The operation request will fail.
Administrator Action: Check logs for errors. Check PVL, PVR, and CS/SS for consistency.

PVLS0049 Volume allocated to another client.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: Attempted a operation on a cartridge which is allocated to another client.
System Action: The operation request will fail.
Administrator Action: This error indicates a serious inconsistency between the PVL and CS/SS. If no data is on the volume in question, attempt to export the volume from the system, then re-import it.

PVLS0050 Cache Underflow.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: A message was not available to send to the SSM when expected.
System Action: None.
Administrator Action: None.

PVLS0051 No drives of this type in this PVR.

Source Files Generating Error Message: pvl_activity.c, pvl_mount.c.
Problem Description: The drive type for the requested operation is not available.
System Action: The client request will fail.
Administrator Action: Check the log for the drive type specified and compare that with the drives configured in the PVL.

PVLS0052 Invalid DriveOption and/or DriveCount.

Source Files Generating Error Message: pvl_admin.c, pvl_mount.c.
Problem Description: The mount drive list is bad (pvl_mount.c) or a problem occurred setting the attributes of a drive (pvl_admin.c): the administrator is attempting to modify the Mounted Volume attribute for a tape drive, the administrator

is attempting to modify the Mounted Volume attribute for a disk that is imported, the administrator is trying to change the PVR of a drive, the administrator is trying to change the Drive Type of a drive, the administrator is trying to change the Administrative State of a drive for which the PVL has been unable to notify the PVR and/or Mover about its creation or deletion, the administrator is trying to change the Drive Pool ID of a Disk drive, the administrator is trying to change the Drive Pool ID and the PVL had a problem, or the administrator is trying to change the Drive Flag.
System Action: Mount will fail (pvl_mount) or drive attribute won't change (pvl_admin.c).
Administrator Action: Check the PVL drive configuration. Some drive attributes can only be set upon creation, or can only be updated with the server is down, or are never settable.

PVLS0053 Job not found in queue.

Source Files Generating Error Message: pvl_admin.c, pvl_dismount.c, pvl_mount.c.
Problem Description: A job related to an operation (mount, dismount, set attributes) was not found.
System Action: Operation fails. Many times this error will occur when a SSM job screen has been brought up. The job completes while the job screen is still displayed, when the screen is dismissed an error occurs as the SSM queries for the non-existent job before dismissing the screen.
Administrator Action: None.

PVLS0054 Drive Type conflict.

Source Files Generating Error Message: pvl_import.c, pvl_mount.c.
Problem Description: The type of the volume does not match the drive type.
System Action: The client request will fail.
Administrator Action: Check the PVL drive configuration and compare to volume media types.

PVLS0055 Operation improper for this job type.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The requested operation is a multi-mount job but the job type does not reflect the correct state.
System Action: The client request will fail.
Administrator Action: If this recurs it may reflect an error in the client request or an internal PVL error.

PVLS0056 Operation invalid in this job state.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The requested operation is a multi-mount job but the job state does not reflect the correct state.
System Action: The client request will fail.

Administrator Action: If this recurs it may reflect an error in the client request or an internal PVL error.

PVLS0057 Operation requested by improper client.

Source Files Generating Error Message: pvl_admin.c, pvl_dismount.c, pvl_mount.c.
Problem Description: Client requesting current operation is not the client which initiated the operation.
System Action: The request fails.
Administrator Action: None.

PVLS0058 Invalid Drive ID.

Source Files Generating Error Message: pvl_admin.c, pvl_dismount.c, pvl_mount.c, pvl_poll.c.
Problem Description: The drive specified in the operation was not found.
System Action: The client request will fail.
Administrator Action: If error recurs, check the PVL drive configuration.

PVLS0059 Mounted on disabled drive.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The PVR has completed a mount on a drive which is no longer enabled. This can occur if a drive is disabled after the PVL has dispatched the currently active drive list to the PVR.
System Action: The PVL will return an error to the PVR and the PVR will mount the cartridge in another drive.
Administrator Action: None.

PVLS0060 Job recovery failed due to metadata inconsistency.

Source Files Generating Error Message: pvl_activity.c, pvl_job.c.
Problem Description: On restart, a job was not recovered due to activity/job inconsistency.
System Action: Job is removed and any resources held by job are released.
Administrator Action: None.

PVLS0061 No jobs found to recover.

Source Files Generating Error Message: pvl_job.c.
Problem Description: An informational trace log that on restart, no jobs were found to recover.
System Action: None.
Administrator Action: None, informational.

PVLS0062 Drive/Job metadata inconsistency.

Source Files Generating Error Message: pvl_activity.c, pvl_admin.c, pvl_pvr.c.

Problem Description: On restart while recovering activities, the drive table is inconsistent with information in the activity.
System Action: Job is removed and any resources held by job are released.
Administrator Action: None.

PVLS0063 PVR uuid Not located for specified object.

Source Files Generating Error Message: pvl_admin.c, pvl_import.c, pvl_mount.c, pvl_pvr.c.
Problem Description: An operation requested for a PVR which is not found in the PVL's PVR table.
System Action: The client request will fail.
Administrator Action: Check the PVL configuration. A new PVR may have been added, the PVL may have to be recycled in order for the new PVR to be included in the PVL's table.

PVLS0064 DriveList excludes all enabled drives.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The drive list specified by the client does not include an available(unlocked) drive.
System Action: The client request fails.
Administrator Action: Check the status of the drives in system.

PVLS0065 Volume not found in metadata.

Source Files Generating Error Message: pvl_checkin_checkout.c, pvl_import.c, pvl_mount.c.
Problem Description: The volume does not exist or a metadata read error occurred while attempting to access it.
System Action: The client request will fail.
Administrator Action: If error recurs, check metadata logs for errors.

PVLS0066 Cartridge already included in this job.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: A multi-mount job requested two mounts for the same cartridge (two sides on the same cartridge).
System Action: The client request will fail.
Administrator Action: None.

PVLS0067 Import cancelled due to mount failure.

Source Files Generating Error Message: pvl_import.c.
Problem Description: The mount failed while importing cartridge.
System Action: The import request fails.
Administrator Action: Check specific mount error message for mount failure reason.

PVLS0069 Import cartridge already exists.

Source Files Generating Error Message: pvl_import.c.
Problem Description: An import operation already is in progress for this cartridge.
System Action: The client request fails.
Administrator Action: If error recurs, check the jobs in the PVL for import status. Also check the log for the origin of the duplicate import requests.

PVLS0070 Volume not found in job.

Source Files Generating Error Message: pvl_dismount.c.
Problem Description: The client attempts to dismount a volume in a particular job but the volume does not exist in that job.
System Action: The client request fails.
Administrator Action: Check the PVL and CS/SS for consistency.

PVLS0071 Function not allowed for Generic object.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: An operation(mount,import,export,allocate volume, checkin/checkout) was requested for the generic object.
System Action: The client request fails.
Administrator Action: None.

PVLS0072 Not enough drives of this type (in this PVR) for this request.

Source Files Generating Error Message: pvl_job.c.
Problem Description: When a drive is made unavailable, the PVL will check existing jobs for a drive starvation condition.
System Action: If a job will end up in a drive starvation condition because the number of available drives is below the number that the job requires. The job is canceled.
Administrator Action: Determine if there are available drives which can be brought online(unlocked) to satisfy multi-volume jobs. Note - repack operations will require twice as many drives as the volume stripe width in its job.

PVLS0073 All drives of this type are disabled.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: All the drives for the requested operation are disabled.
System Action: The client request will fail.
Administrator Action: Determine if there are available drives which can be brought online(unlocked) to satisfy mount requests.

PVLS0074 Number of volumes changed.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: On restart, the total number of volumes in the PVL changed.
System Action: Sets the metadata to the new value and notifies SSM.
Administrator Action: None.

PVLS0075 Gave up pvr_MountCompleted after many tries.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: Unable to connect to the PVR in order to notify the server that a mount completed.
System Action: The mount process will continue without notifying the PVR.
Administrator Action: Check the state of the PVR, check log for general communication problems.

PVLS0076 Drive Queue Inconsistent, job removed from queue temporarily.

Source Files Generating Error Message: pvl_job.c, pvl_mount.c.
Problem Description: On restart, the job entry has a drive field which is inconsistent. Clear the field.
System Action: Will attempt to reconstruct the drive list at a later stage of job recovery.
Administrator Action: None.

PVLS0077 Move: Cartridge already in Destination PVR.

Source Files Generating Error Message: pvl_import.c.
Problem Description: Attempting to move a cartridge into a PVR it already resides in.
System Action: The client request will fail.
Administrator Action: None.

PVLS0078 Drive disabled.

Source Files Generating Error Message: pvl_admin.c, pvl_mount.c.
Problem Description: On restart if a drive is not enabled, log.
System Action: None.
Administrator Action: Informational only, verify that expected drives are disabled.

PVLS0079 Operation invalid on non-removable media.

Source Files Generating Error Message: pvl_admin.c, pvl_import.c, pvl_pvr.c.
Problem Description: Volume or Drive set attributes operation on invalid type.
System Action: The client request will fail.
Administrator Action: None.

PVLS0080 Drive already exists.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: Attempt to create a drive which already exists.
System Action: The client request will fail.
Administrator Action: Check the current drive configuration for duplicate info.

PVLS0081 MVR config data missing, will not contact MVR.

Source Files Generating Error Message: pvl_mm.c, pvl_pvr.c.

Problem Description: Unable to get mover server information from metadata.
System Action: PVL will be unable to communicate with mover.
Administrator Action: Check logs for metadata errors, may have to recycle PVL.

PVLS0082 Drive released.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: This in an informational trace log about a drive being released (i.e. the drive state is going to 'Free').
System Action: None.
Administrator Action: None, informational.

PVLS0083 Non-removable import failed - VolumeID not found.

Source Files Generating Error Message: pvl_import.c.
Problem Description: The non-removable import (usually disk) failed because the PVL doesn’t have a reference to it in it’s internal drive table.
System Action: The import request fails.
Administrator Action: The drive must first be created before it can be imported. The PVL provides an api to create a drive. Check the PVL drives metadata, PVL may have to be recycled.

PVLS0084 Function not allowed while volume is allocated.

Source Files Generating Error Message: pvl_import.c.
Problem Description: An operation (e.g. export, write label) was attempted on a volume not allocated to the client.
System Action: The operation fails.
Administrator Action: None.

PVLS0085 Dismount reason: label verified.

Source Files Generating Error Message: pvl_import.c.
Problem Description: label verified on import - informational.
System Action: The label is read and determined to be identical to its requested import label. No write i/o is carried out on the cartridge.
Administrator Action: Note - that a label is NOT written in this case. If you are using pre-labeled cartridges, they will not have an HPSS format label. In this case the label type will be recorded as "foreign" in HPSS metadata.

PVLS0086 Dismount reason: label types differ.

Source Files Generating Error Message: pvl_import.c, pvl_mount.c, pvl_poll.c.
Problem Description: The import is not type scratch or overwrite and the label read from cartridge does not match the import request.
System Action: The import request fails.
Administrator Action: If you’re sure there’s nothing valid on the cartridge, set the import type to scratch and retry the import. If a media density change is being made, set the import type to overwrite.

PVLS0087 **Unload Failed: Causes: Device reserved, mover down, hardware/communication. LOCKING the DRIVE will exit loop.**

Source Files Generating Error Message: pvl_mvr.c.
Problem Description: The PVL issued a device unload request to the mover and the call failed.
System Action: The dismount will pend until the call completes or until the drive Administrative State is Locked.
Administrator Action: Possible causes are: socket communication error, mover down, drive is busy. The drives administrative state can be locked which will result in the PVL job completing. The cartridge may remain in the drive and will have to be manually dismounted and inventoried before it is again available to the system.

PVLS0088 **Connection re-established.**

Source Files Generating Error Message: pvl_client.c.
Problem Description: A connection to the Core Server has been re-established.
System Action: Previously held callbacks to Core Server can resume.
Administrator Action: None.

PVLS0090 **Dismount of volume Deferred.**

Source Files Generating Error Message: pvl_activity.c.
Problem Description: Status message, delaying dismount of specified volume.
System Action: None, informational only.
Administrator Action: None.

PVLS0091 **Volume mounted(was Dismount Deferred).**

Source Files Generating Error Message: pvl_activity.c.
Problem Description: Status message, requested volume was already mounted(in deferred dismount state).
System Action: None.
Administrator Action: None.

PVLS0092 **Defer Dismounts in PVR.**

Source Files Generating Error Message: pvl_mm.c.
Problem Description: Status message, during initialization note that this PVR allows dismounts to be deferred.
System Action: None.
Administrator Action: None.

PVLS0093 **Do Not Defer Dismounts in PVR.**

Source Files Generating Error Message: pvl_mm.c.
Problem Description: Status message, during initialization note that this PVR does not allow dismounts to be deferred.
System Action: None.
Administrator Action: None.

PVLS0094 Dismounting Deferred Volume.

Source Files Generating Error Message: pvl_dismount.c, pvl_pvr.c, pvl_util.c.
Problem Description: Status message, physically dismounting a volume which was in deferred dismount state.
System Action: None.
Administrator Action: None.

PVLS0095 Job dismounted/deleted on restart, deferred dismount.

Source Files Generating Error Message: pvl_job.c.
Problem Description: Status message, on restart physically dismount cartridges in deferred dismount state.
System Action: None.
Administrator Action: None.

PVLS0097 Volume is busy in another job.

Source Files Generating Error Message: pvl_import.c.
Problem Description: A PVL job cannot import a volume because there is already another job working on importing the volume.
System Action: Importing the volume will fail (for all jobs except the first).
Administrator Action: None.

PVLS0098 Gave up Elevate: Drive Disabled.

Source Files Generating Error Message: pvl_mvr.c.
Problem Description: For some reason (probably hardware error) the PVL has not been able to elevate a cartridge from a drive. The PVL drive was locked via an administrator which allowed the PVL job to complete.
System Action: Job completes, drive is disabled.
Administrator Action: Depending on library type, the cartridge may or may not be dismounted. The administrator should investigate drive/cartridge status.

PVLS0099 Dismounted activity still in job:

Source Files Generating Error Message: pvl_util.c.
Problem Description: A debug message. An activity is dismounted but it still remains on the defer dismount queue.
System Action: None.
Administrator Action: Cancel the defer dismount job.

PVLS0100 Activity Released:

Source Files Generating Error Message: pvl_activity.c.
Problem Description: Debug message used to track activity release.
System Action: None.
Administrator Action: None.

PVLS0101 Shelf Tape in PVR.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: This message shows up during PVL initialization phase. It indicates the PVR support Shelf Tape feature.
System Action: None.
Administrator Action: None.

PVLS0102 Do Not Shelf Tape in PVR.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: This message shows up during PVL initialization phase. It indicates the PVR does not support Shelf Tape feature.
System Action: None.
Administrator Action: None.

PVLS0103 Recover shelf tape request.

Source Files Generating Error Message: pvl_job.c.
Problem Description: This is not an error. This message shows up when recycling the PVL process. It indicates there are pending Check In requests in the job queue.
System Action: None.
Administrator Action: None.

PVLS0105 Not enough drives unlocked or configured to satisfy job.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: There are not enough drives in the PVR to satisfy the mount request.
System Action: Mount request will fail.
Administrator Action: Configure PVL with additional drives in order to satisfy subsequent mount requests.

PVLS0106 Activity previously in mount pending is now dismount pending.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: Not an error case, it just notes(Event) that an activity which was in mount pending state before the PVL requested the PVR mount was found in dismount pending state after the PVR mounted the cartridge.
System Action: Cartridge is dismounted and activity released.
Administrator Action: This should be an infrequent case and is caused by canceling a job before the PVR mount completes.

PVLS0107 Mover has directed PVL to disable drive due to hardware considerations.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The PVL has directed the Mover to unload a drive and the Mover has returned a hardware error .
System Action: Drive is automatically disabled.

Administrator Action: Investigate the state of the drive. The cartridge may still be loaded. Manually unload drive or call for service.

PVLS0108 The PVR reports mounting a cartridge in a drive which the PVL records in use by another cartridge.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: This has occurred during a communication breakdown. The mount response from the PVR has been delayed and polling is turned on for the drive. While the PVR sleeps and then reconnects, the poller detects the cartridge, completes the mount, i/o completes, cartridge dismounts and a new cartridge is mounted.
System Action: If the PVL does not have a job for the PVR reported mount, dismount the cartridge. If the PVL does have a job, attempt to clear a drive of the same type by dismounting a cartridge in deferred dismount and reissuing the PVR mount.
Administrator Action: Monitor the situation. If a problem continues, check communication pathways. You may have to mount problem cartridge through library specific utilities. Consider increasing the polling interval.

PVLS0109 The activity associated with the PVR cartridge mount does not exist in the PVL.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: This has occurred during a communication breakdown. The mount response from the PVR has been delayed and polling is turned on for the drive. While the PVR sleeps and then reconnects, the poller detects the cartridge, completes the mount, i/o completes, cartridge dismounts and a new cartridge is mounted.
System Action: .If the PVL does not have a job for the PVR reported mount, dismount the cartridge. If the PVL does have a job, attempt to clear a drive of the same type by dismounting a cartridge in deferred dismount and reissuing the PVR mount.
Administrator Action: Monitor the situation. If a problem continues, check communication pathways. You may have to mount problem cartridge through library specific utilities.

PVLS0110 Dismount failed: PVR returned error. LOCKING the DRIVE will exit the dismount loop.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The PVR has returned an error from the Dismount Cartridge call.
System Action: .The PVL will retry the dismount, increasing time between attempts in five second intervals up to a one minute maximum.
Administrator Action: If the dismount errors persist, locking the drive will exit the dismount loop. Inspect the drive/cartridge/library for errors.

PVLS0111 Dismount reason: SSM requested.

Source Files Generating Error Message: pvl_activity.c, pvl_dismount.c, pvl_pvr.c.
Problem Description: An administrative dismount via the SSM.

System Action: The cartridge is dismounted.
Administrator Action: None - informational accounting logging only.

PVLS0112 The number of PVR servers configured in metadata exceed PVL internal PVR table size. Terminating.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: The number of PVRs in the system has exceeded a PVL internal table size.
System Action: The PVL terminates.
Administrator Action: Advise software support or if source available, increase constant MAX_PVRSsize and recompile the PVL.

PVLS0113 Drive Disabled: Consecutive mount errors on drive has exceeded specified limit.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: The number of consecutive drive timeout errors for a specific drive has been exceeded. This number is PVR configured and applies to all drives managed by that PVR.
System Action: The drive is disabled.
Administrator Action: Investigate the cause of drive timeout errors. Possibly caused by library server software or drive failure.

PVLS0114 Drive Error Count Incremented due to mount timeout error.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: A mount failed due to a mount timeout error.
System Action: None.
Administrator Action: Investigate the cause of the mount timeout error. Possibly caused by library server software or drive failure.

PVLS0115 Attempt to decrement Available Drive Count less than 0.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: This is a Debug log that the PVL wasn’t able to decrement the Available Drives when Drive/Job metadata is discovered inconsistent (drive state is Free but has an activity) during job recovery.
System Action: PVL will mark the drive state as In Use, but won’t be able to decrement the AvailDrives
Administrator Action: See PVLS0062; this is additional information regarding that problem.

PVLS0116 Job’s activity list inconsistent during recovery phase.

Source Files Generating Error Message: pvl_job.c.
Problem Description: During restart job recovery a job/activity inconsistency detected.
System Action: job will not be recovered.
Administrator Action: None.

PVLS0117 Volume is NOT labeled. Either import again or export and import.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The import for this volume did not successfully complete the labeling of the cartridge.
System Action: This error occurs when attempting to allocate a volume. The allocation will fail.
Administrator Action: The volume should be imported again and the label written. Alternatively the volume may be exported and re-imported.

PVLS0118 All physical RAIT drives of this RAIT PVR are unavailable.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: All the RAIT drives for the requested operation are disabled.
System Action: The client request will fail.
Administrator Action: Determine if there are available drives which can be brought online(unlocked) to satisfy mount requests.

PVLS0119 RAIT Volume Group API error.

Source Files Generating Error Message: pvl_mount.c.
Problem Description: An invalid RAIT volume configuration was specified while creating a mount job.
System Action: The operation will fail.
Administrator Action: None.

PVLS0120 Number of RAIT physical drives in PVR =.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: Informational log about the number of RAID drives.
System Action: None.
Administrator Action: None, informational.

PVLS0121 Check config:

Source Files Generating Error Message: pvl.c.
Problem Description: The PVL has a configuration problem.
System Action: The PVL will not start if the configuration issue is severe.
Administrator Action: The error log will inform the administrator about the area with the configuration problem; the administrator should correct the issue. For example, the PVL's Security ACLs (stored in the AUTHZACL table) might have one or more invalid ACL entries; if the minimal entries aren't configured correctly, the PVL will not start up. Consult the *HPSS Management Guide* for additional information about configuring the PVL's Server Security ACLs.

PVLS0122 PVR is not ready yet. Request will suspend.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The PVR is not accepting requests from the PVL.
System Action: The PVR is in the process of starting and not yet accepting requests.

Administrator Action: Wait for a bit, if the error continues, investigate the PVR status.

PVLS0123 Dismount failed: PVR returned error.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: Dismount request to the STK PVR failed due to TRANSIT error.
System Action: The dismount job completes.
Administrator Action: Investigate the STK cartridge status. It may be stuck in drive or pass-thru port.

PVLS0125 Metadata read call successful but record count is zero.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: A PVR was not located in metadata.
System Action: PVL will not attempt to communicate with any PVR.
Administrator Action: Inspect metadata for PVR(s).

PVLS0126 An executable SSM was NOT found.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: An executable SSM was not located in metadata.
System Action: PVL will not attempt to communicate with a SSM.
Administrator Action: Inspect metadata for executable SSM.

PVLS0127 A NULL UUID detected.

Source Files Generating Error Message: pvl_admin.c, pvl_mm.c.
Problem Description: An executable SSM was found in metadata but its UUID is invalid.
System Action: PVL will not attempt to communicate with a SSM.
Administrator Action: Inspect executable SSM metadata configuration.

PVLS0128 mm_CreateAutoTranHandle call failed.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: The call to create an auto transaction failed.
System Action: Calling procedure fails.
Administrator Action: Investigate metadata server status.

PVLS0129 Metadata Select call failed.

Source Files Generating Error Message: pvl_mm.c, pvl_pvr.c.
Problem Description: Retrieve metadata call failed.
System Action: Calling procedure fails.
Administrator Action: Investigate metadata server status.

PVLS0130 Metadata Read Record call failed.

Source Files Generating Error Message: pvl_mm.c, pvl_pvr.c.
Problem Description: Retrieve metadata call failed.
System Action: Calling procedure fails.
Administrator Action: Investigate metadata server status.

PVLS0131 Transaction infrastructure failed and issued tran_ServerAbort.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: Transaction infrastructure failure.
System Action: PVL terminates.
Administrator Action: Investigate metadata server. Check status of all servers.

PVLS0132 PVL DEBUG:

Source Files Generating Error Message: pvl_checkin_checkout.c, pvl_pvr.c.
Problem Description: Supporting Debug log for other logs and activities.
System Action: None.
Administrator Action: Correlate these logs with other PVL logs; use for debugging PVL problems by turning on DEBUG in the PVL's log policy..

PVLS0133 Admin drive change:

Source Files Generating Error Message: pvl_admin.c.
Problem Description: Status(Event) message noting the locking/unlocking of a drive.
System Action: Drive scheduler accounts for drive status change.
Administrator Action: Determine is drive status change is expected result of administrative change.

PVLS0134 Client Cancels All Jobs.

Source Files Generating Error Message: pvl_dismount.c.
Problem Description: The PVL is cancelling all jobs for a given client.
System Action: None.
Administrator Action: None, informational. The Core Server will do this when connecting to the PVL for the first time; so upon Core Server (re)start.

PVLS0135 Cartridge exists in metadata with a different media type.

Source Files Generating Error Message: pvl_import.c.
Problem Description: An import attempted for an existing PVL volume in metadata, the media type of the existing volume and import request do not match. This may occur when attempting to move up to a higher density format with the same form factor(i.e. Same cartridge with higher density drive).
System Action: Operation fails.
Administrator Action: If moving to higher density drive, export the volume. Re-import the cartridge using the "Overwrite" import option.

PVLS0136 Transaction infrastructure received an error.

Source Files Generating Error Message: pvl_log.c.
Problem Description: The metadata library transaction infrastructure received an error.
System Action: None.
Administrator Action: Review logs for database problems.

PVLS0137 At least one volume in JOB failed to mount.

Source Files Generating Error Message: pvl_mount.c, pvl_pvr.c.
Problem Description: At least one volume in a mount job failed to mount. Report the specific volume name which failed to mount.
System Action: Operation fails.
Administrator Action: Using the volume name reported in the error log, Investigate the cause of failure by checking HPSS log and Library specific log entries.

PVLS0138 Communication error to PVR, volume shelf status unavailable.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL was unable to communicate with the PVR. Unable to retrieve shelf status.
System Action: Volume information is returned without shelf status included.
Administrator Action: Investigate the cause of communication failure with the PVR by checking HPSS log and PVR process status.

PVLS0139 Invalid Flag value.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: An invalid flag relating to shelf status was an input argument.
System Action: Operation fails.
Administrator Action: This error would denote a coding logic error. Advise support to contact development.

PVLS0140 PVL Shutdown pends while calls Active.

Source Files Generating Error Message: pvl.c, pvl_mm.c.
Problem Description: An informative event log that the PVL shutdown is waiting for active calls to complete before it can completely shutdown.
System Action: None.
Administrator Action: If the administrator gets tired of waiting, they can do a HALT.

PVLS0141 Disk read LABEL failed.

Source Files Generating Error Message: pvl_import.c
Problem Description: This message occurs when the PVL fails to read a disk label on import.
System Action: The disk volume import fails.
Administrator Action: Verify that the hardware can read a label from the disk volume and retry the import.

PVLS0142 Disk Volume LABEL Mismatch:

Source Files Generating Error Message: pvl_import.c.
Problem Description: The existing disk label doesn't match what HPSS has stored in metadata for a given disk volume.
System Action: For disk, the PVL won't overwrite a label unless the option is overwrite and the Volume Labels MATCH. The PVL will NOT overwrite an existing different label in ANY case. The PVL leaves it up to the administrator to remove disk labels outside of HPSS.
Administrator Action: Verify the disk label and correct if needed; disk labels need to be removed outside of HPSS.

PVLS0145 MVR is not ready yet. Request will suspend.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The PVL attempted to inform the associated mover about a newly created device/drive, but received an error that the Mover was not ready.
System Action: The PVL will continue to retry notifying the Mover about the new device/drive. The PVL will not allow this new device/drive to be used until the associated Mover and associated PVR (if needed) have successfully been notified about the new device/drive.
Administrator Action: Bring up the associated Mover. If it is already running, check for communication problems between the PVL and Mover.

PVLS0146 Tape Drive w/o associated PVR detected.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The PVL detected a Tape Drive that didn't have a PVR associated with it.
System Action: The PVL can't finish create/deleting this tape device/drive.
Administrator Action: Verify and correct the drive metadata to have a PVR associated with it.

PVLS0147 Running w/o MVR metadata for Drive.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The Mover device metadata is missing for a device/drive.
System Action: The PVL will stop initializing his internal drive list.
Administrator Action: Verify and correct the device/drive metadata. You may have to delete the device/drive and then re-created it.

PVLS0148 Disk volume must be exported before operation can occur.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL detected that a disk device/drive for which deletion is requested is unallocated, but the PVL Volume still exists. This isn't allowed.
System Action: The PVL won't allow disk delete until the volume is removed (CS resource deleted (unallocated) and the volume exported).
Administrator Action: Delete CS resources and export the volume.

PVLS0149 Mover reports Device Unknown.

Source Files Generating Error Message: pvl_pvr.c.
Problem Description: The PVL is attempting to notify the associated Mover about a device/drive deletion and the Mover doesn't know about the drive. This is not considered an error to the PVL; it could be that the Mover was (re)started during the device/drive deletion and thus found out about the deletion before the PVL was able to notify it.
System Action: None.
Administrator Action: None, informative.

PVLS0150 PVL Volume must be UNALLOCATED before operation can occur.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL detected that a disk device/drive for which deletion is requested is still allocated and the PVL Volume still exists. This isn't allowed.
System Action: The PVL won't allow disk delete until the volume is removed (CS resource deleted (unallocated) and the volume exported).
Administrator Action: Delete CS resources and export the volume.

PVLS0151 Attempting to delete a previously deleted or non-existent drive.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL detected that a device/drive that is requesting deletion doesn't exist.
System Action: The PVL won't delete the drive.
Administrator Action: Investigate why the client is deleting a device/drive that the PVL doesn't know about.

PVLS0152 Create Drive failed:

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL wasn't able to create the specified device/drive.
System Action: Requested device/drive won't be created.
Administrator Action: The PVL won't be able to create a device/drive when the client passed invalid data about the device/drive to be created (e.g. Device ID doesn't match the Drive ID, the Device or Drive ID is 0, the Device Media Type doesn't match the Drive Media Type, the Device Mover ID doesn't match the Drive Mover ID, the Device Type is unknown, the Device Flag is unknown), the Device Media Block Size is zero, a delete of the same device/drive is still pending, or when the device/drive metadata creation failed.

PVLS0153 Delete Drive failed:

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL wasn't able to delete the specified device/drive.
System Action: Requested device/drive won't be deleted.
Administrator Action: The PVL won't be able to delete a device/drive when a create of the same device/drive is still pending, the PVL is unable to determine the PVL

Volume status, there is still activity for the device/drive, or when the device/drive metadata deletion failed.

PVLS0154 Previous Drive Delete notification will be Aborted, Try Later.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL hasn't been able to notify the device/drive associated Mover and/or PVR about the deletion of a drive that is now being created. It will now abort that notification.
System Action: The PVL will abort notifying the Mover and/or PVR about the deletion of the drive that the administrator is now requesting to create; the creation will not occur.
Administrator Action: Retry the creation.

PVLS0155 Previous Drive Create/Delete notification will be Aborted, Try Later.

Source Files Generating Error Message: pvl_admin.c.
Problem Description: The PVL hasn't been able to notify the device/drive associated Mover and/or PVR about the creation of a drive that is now being deleted. It will now abort that notification.
System Action: The PVL will abort notifying the Mover and/or PVR about the creation of the drive that the administrator is now requesting to delete; the deletion will not occur.
Administrator Action: Retry the deletion.

PVLS0156 Drive Notify failed:

Source Files Generating Error Message: pvl_log.c.
Problem Description: The PVL was unable to notify the Mover and/or PVR associated with a device/drive about the creation or deletion of a device/drive. This log will give more details about the notification problem, how many times it will retry the notification, and when it abandons the notification.
System Action: The PVL will continue to try notify the Mover and/or PVR until a retry count is exhausted.
Administrator Action: Bring up and/or fix the associated Mover and/or PVR.

PVLS0157 Enforce Home Location in PVR.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: This message shows up during PVL initialization phase. It indicates the SCSI PVR supports the Enforce Home Location feature.
System Action: None.
Administrator Action: None.

PVLS0158 Do Not Enforce Home Location in PVR.

Source Files Generating Error Message: pvl_mm.c.
Problem Description: This message shows up during PVL initialization phase. It indicates the SCSI PVR does not support the Enforce Home Location feature.

System Action: None.
Administrator Action: None.

PVLS0159 Update Drive failed:

Source Files Generating Error Message: pvl_admin.c.
Problem Description: Updating drive configuration fails.
System Action: Update of the device and drive configuration metadata failed. There are many reasons the update cannot occur. Please refer to the HPSS Management Guide for more details about updating devices and drives.
Administrator Action: Check PVL drive and mover device operational and administrative states.

PVLS0160 PVL EVENT:

Source Files Generating Error Message: pvl.c, pvl_admin.c.
Problem Description: Informational message shown when validating PVL authorization vector and when adding a new PVR.
System Action: None, informational only.
Administrator Action: None.

PVLS0161 Existing volume metadata (PVR UUID) is out of sync with import information.

Source Files Generating Error Message: pvl_import.c
Problem Description: This message occurs when the PVR UUID of the existing volume metadata does not match the PVR UUID of the import/mount request. This situation can occur when during a previous import/mount, the cartridge metadata was already created but the import/mount failed.
System Action: The volume import fails.
Administrator Action: Export and re-import the volume that is the source of the error.

PVLS0162 Disk write LABEL failed.

Source Files Generating Error Message: pvl_import.c
Problem Description: This message occurs when the PVL fails to overwrite a disk label on import.
System Action: The disk volume import fails.
Administrator Action: Verify that the hardware can write a label to the disk volume and retry the import.

PVLS0163 Media type is not disk.

Source Files Generating Error Message: pvl_import.c
Problem Description: This message occurs when the media type being imported is expected to be a disk but is not actually a disk.
System Action: The import fails.
Administrator Action: Correct the import configuration and retry the import.

PVLS0164 Job cancelled.

Source Files Generating Error Message: pvl_import.c
Problem Description: This message occurs when an import, export, or move job was cancelled while that job was waiting to acquire cartridges.
System Action: The import, export, or move job is cancelled.
Administrator Action: None.

PVLS0165 PVL not accepting jobs.

Source Files Generating Error Message: pvl_import.c
Problem Description: This message occurs when an import, export, move, or write label operation is submitted to the PVL while the PVL is not unlocked.
System Action: The import, export, move, or write label operation fails.
Administrator Action: None.

Chapter 16. Physical Volume Repository Error Messages (PVRS Series)

PVRS0001 **Metadata manager error.**

Source Files Generating Error Message: pvr_cart.c, pvr_inject_eject.c.
Problem Description: PVR unable to communicate with metadata manager.
System Action: Transaction aborted.
Administrator Action: Check Metadata server status and logs for info.

PVRS0002 **Device error:**

Source Files Generating Error Message: pvr_checkin_checkout.c, pvr_dismount.c, pvr_inject_eject.c, pvr_mount.c.
Problem Description: The PVR has been notified by the PVL that an operation that the PVL had asked it to accomplish did not complete because of a device error.
System Action: The cartridge is placed in a pending operation state.
Administrator Action: Check HPSS and Operating System logs for information on failing device.

PVRS0004 **Entering pvr_Mount.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0005 **Exiting pvr_Mount.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0006 **Entering pvr_MountComplete.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0007 **Exiting pvr_MountComplete.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0008 Entering pvr_DismountCart.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0009 Exiting pvr_DismountCart.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0010 Entering pvr_DismountDrive.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0011 Exiting pvr_DismountDrive.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0012 Entering pvr_Inject.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0013 Exiting pvr_Inject.

Source Files Generating Error Message: pvr_api.c.

Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0014 Entering pvr_Eject.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0015 Exiting pvr_Eject.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0016 Entering pvr_Audit.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0017 Exiting pvr_Audit.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0018 Entering pvr_ServerGetAttrs.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0019 Exiting pvr_ServerGetAttrs.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.

System Action: None.
Administrator Action: None, informational.

PVRS0020 **Entering pvr_ServerSetAttrs.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0021 **Exiting pvr_ServerSetAttrs.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0022 **Entering pvr_PVRGetAttrs.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0023 **Exiting pvr_PVRGetAttrs.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0024 **Entering pvr_PVRSetAttrs.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0025 **Exiting pvr_PVRSetAttrs.**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0026 Entering pvr_CartridgeGetAttrs.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0027 Exiting pvr_CartridgeGetAttrs.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0028 Entering pvr_CartridgeSetAttrs.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0029 Exiting pvr_CartridgeSetAttrs.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0030 Entering pvr_ListAllCart.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0031 Exiting pvr_ListAllCart.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0032 Repository Cartridge Threshold Exceeded.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The number of cartridges in a PVR has exceeded a configuration threshold. A Threshold describing when to issue this alarm is configured into each PVR. It describes the maximum number of cartridges allowed in a PVR over which, an alarm will be generated.
System Action: Alarm generated as a warning when the threshold is exceeded. Alarm generated with no severity when the threshold is reset.
Administrator Action: Review the number of cartridges in the PVRs. Adjust inject and eject policies to stay within configured thresholds.

PVRS0034 Error notifying SSM of attribute change.

Source Files Generating Error Message: pvr_notify.c.
Problem Description: A PVR internal request to notify the SSM was received which was not a valid operation.
System Action: Log entry generated, no corrective action taken.
Administrator Action: None.

PVRS0035 Malloc returned NULL.

Source Files Generating Error Message: pvr_main.c, pvr_notify.c, pvr_pending_checkin.c, pvr_pending_mounts.c, pvr_util.c, AmlPvrUtil.c, device_Dismount.c, device_Eject.c, device_Inject.c, device_Mount.c, operator.c, scsi.c, stk.c.
Problem Description: In pvr_pending_mounts, a malloc used to get space to store a pending mount failed. In pvr_notify.c and operator.c a malloc to prepare thread arguments failed. In ampex.c, and stk.c a number of possible malloc failure points exist.
System Action: In pvr_pending_mounts the mount request is not sent to the SSM screen. In pvr_notify.c SSM notification is abandoned. In stk.c **System Action** depends on where in the code the malloc failed. In operator.c the ManageMount thread is not called.
Administrator Action: Check to see if the PVR has grown too large to gather more space. Not being able to get malloc space is very serious. Consider restarting the PVR. Check OS logs for systemwide error conditions.

PVRS0036 Entering pvr_ListPendingMounts.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0037 Exiting pvr_ListPendingMounts.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.

System Action: None.
Administrator Action: None, informational.

PVRS0038 The PVR has been initialized.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR is initialized and up.
System Action: None
Administrator Action: None, informational.

PVRS0039 The PVR has been shutdown.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR is terminating.
System Action: None.
Administrator Action: None, informational.

PVRS0040 Error starting or destroying a thread.

Source Files Generating Error Message: pvr_main.c, pvr_notify.c, pvr_pending_checkin.c, pvr_pending_mounts.c, pvr_util.c, AmlPvrUtil.c, device_Mount.c, operator.c, scsi.c, stk.c.
Problem Description: The PVR tried to fork a thread for a specific operation, but was unable to do so.
System Action: System Action varies from termination of the PVR, to loss of the SSM notify thread or mount waiting thread.
Administrator Action: The inability to create a thread indicates possible operating system problems or overuse. Once system problems are fixed, restart PVR to ensure consistency.

PVRS0041 Client connection opened.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A client to the PVR successfully opened a connection to the PVR.
System Action: None.
Administrator Action: None, informational.

PVRS0042 Client connection closed.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A client to the PVR closed its connection to the PVR.
System Action: None.
Administrator Action: None, informational.

PVRS0043 Ejecting cartridge.

Source Files Generating Error Message: pvr_log.c.
Problem Description: The PVR is ejecting a cartridge and logging specifics about that cartridge.

System Action: None - informational.
Administrator Action: None.

PVRS0045 PVR Shutdown

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR is shutting itself down.
System Action: The PVR will terminate itself as gracefully as possible.
Administrator Action: If shutdown reason is unknown, investigate reason for termination log. For example, the PVR might shutdown if the PVR Security ACLs are incorrectly configured.

PVRS0046 putenv function call failed during initialization.

Source Files Generating Error Message: stk.c.
Problem Description: The STK PVR got an error calling the 'putenv' system call to set the ACSAPI_SSI_SOCKET environment variable. This environment variable needs to be set if there will be multiple STK PVRs running on the same platform with associated multiple SSI and MINI_EL processes.
System Action: The PVR will exit.
Administrator Action: Examine the log for the errno associated with the putenv system call failure.

PVRS0047 PVR will be communicating to SSI over port.

Source Files Generating Error Message: stk.c.
Problem Description: The 'Alternate SSI Port' is set in the STK PVR configuration. The STK PVR is reporting that it will use the specified port for communicating to the SSI.
System Action: None.
Administrator Action: None, informational.

PVRS0048 Cartridge in move transit state, retry move.

Source Files Generating Error Message: pvr_main.c.
Problem Description: Upon startup of the PVR, the PVR reports each cartridge that was left in Mount Pending state. The administrator will need to retry the move operation on these cartridges.
System Action: Verify that the cartridges are in the destination library.
Administrator Action: Retry the move operation for each cartridge reporting this message.

PVRS0049 uuid_create_nil call failed.

Source Files Generating Error Message: pvr_inject_eject.c.
Problem Description: The PVR got a failure calling the HPSS uuid_create_nil library call.
System Action: None.
Administrator Action: Collect HPSS error log and contact HPSS Technical Support.

PVRS0050 The number of Drives assigned to this PVR:

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR is reporting the number of drives it knows about. This log appears whenever the PVR is (re)initialized. This will occur when drives are added or deleted in addition to PVR server startup.
System Action: None.
Administrator Action: None, informative.

PVRS0051 Drive busy in PVR, DriveTableInit postponed.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVL is attempting to reinitialize the PVR to delete a drive, but that drive is currently busy. The PVR logs the drive ID and returns HPSS_EBUSY to the PVL which will then retry the request. The PVL has already deleted the device/drive metadata; the PVR just needs to remove the drive from its internal drive list/cache
System Action: The request will be delayed. The PVL will continue trying to inform the PVR about the deletion. Once the drive isn’t busy, the PVR will delete it from its cache.
Administrator Action: Verify that the drive is locked and all jobs associated with the drive are complete.

PVRS0065 logMessage2:

Source Files Generating Error Message: pvr_all.c, pvr_inject_eject.c, pvr_util.c, pvr_checkin_checkout.c, pvr_main.c, stk.c, scsi.c.
Problem Description: Generally a debug log reporting supporting information for an Alarm or Event.
System Action: Supporting log information.
Administrator Action: Look for and obtain these HPSS logs in support of some other problem or event.

PVRS0066 Realloc returned NULL.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR got a failure from the 'realloc' system call.
System Action: The PVR will exit.
Administrator Action: Check HPSS logs for the errno value from this system call.

PVRS0093 Drive ID does NOT exist in DriveTable.

Source Files Generating Error Message: pvr_dismount.c, pvr_mount.c, stk.c.
Problem Description: The PVR was unable to get the drive address from the Drive ID. This generally occurs when the Drive ID was not found in the PVR’s internal drive table; it could also occur if the 'DriveIdToDriveAddr' function is incorrectly called.
System Action: The mount completion or the dismount may fail.
Administrator Action: Verify that the mount/dismount succeeds.

PVRS0141 Robot unable to find cartridge.

Source Files Generating Error Message: pvr_dismount.c, pvr_mount.c, device_Mount.c, scsi.c, stk.c.
Problem Description: Robotics failed to locate a requested cartridge.
System Action: Mount or dismount will fail.
Administrator Action: Investigate robotics for lost cartridge. Use robot specific utilities outside of HPSS to query cartridge location.

PVRS0142 STK unable to dismount cartridge due to audit, will retry.

Source Files Generating Error Message: stk.c.
Problem Description: An ongoing audit made dismounting a cartridge impossible.
System Action: Dismount will be retried.
Administrator Action: None.

PVRS0143 STK library unavailable.

Source Files Generating Error Message: stk.c.
Problem Description: The STK library is offline.
System Action: Requests in this library will fail.
Administrator Action: Investigate reason for offline library.

PVRS0144 STK drive offline.

Source Files Generating Error Message: stk.c.
Problem Description: The STK drive identified is offline.
System Action: Requests destined for this drive will not complete.
Administrator Action: Investigate reason for offline drive.

PVRS0145 STK LSM offline.

Source Files Generating Error Message: stk.c.
Problem Description: The LSM containing the identified drive is offline.
System Action: Requests destined for this LSM will not complete.
Administrator Action: Investigate reason for offline LSM.

PVRS0146 STK unable to eject cartridge(s).

Source Files Generating Error Message: stk.c.
Problem Description: An eject from an STK library failed for one of many possible reasons.
System Action: The eject request(s) fail.
Administrator Action: Investigate HPSS and ACSLS logs for details on failure.

PVRS0147 STK unable to eject cartridge(s), will retry.

Source Files Generating Error Message: stk.c.

Problem Description: An attempted eject from an STK library failed in a recoverable manner.
System Action: The eject is retried.
Administrator Action: Investigate HPSS and ACSLS logs for details on failure.

PVRS0148 STK library unavailable, will retry.

Source Files Generating Error Message: stk.c.
Problem Description: The STK library is offline.
System Action: The PVR believes the offline state of the library is temporary and will retry.
Administrator Action: None.

PVRS0149 STK drive offline, will retry.

Source Files Generating Error Message: stk.c.
Problem Description: The STK drive identified is offline.
System Action: The PVR believes the offline state of the drive is temporary and will retry the request. If possible the cartridge will be retried in a different drive.
Administrator Action: If the error message continues, investigate the hardware.

PVRS0150 STK LSM offline, will retry.

Source Files Generating Error Message: stk.c.
Problem Description: The STK LSM identified is offline.
System Action: The PVR believes the offline state of the LSM is temporary and will retry the request.
Administrator Action: None.

PVRS0151 STK CAP offline, will retry.

Source Files Generating Error Message: stk.c.
Problem Description: An STK CAP (Cartridge Access Port) is offline.
System Action: The PVR believes the offline state of the CAP is temporary and will retry the request.
Administrator Action: None.

PVRS0152 STK CAP offline.

Source Files Generating Error Message: stk.c.
Problem Description: An STK CAP (Cartridge Access Port) is offline.
System Action: The PVR aborts the request.
Administrator Action: Investigate logs and STK console logs for a reason for the CAP being offline.

PVRS0154 STK silo is full, operation failed.

Source Files Generating Error Message: stk.c.
Problem Description: A request to add cartridges to an STK LSM failed because it was full of cartridges.

System Action: The request fails.
Administrator Action: Examine site policies regarding the population of LSMs with cartridges.

PVRS0155 STK audit in progress, operation failed.

Source Files Generating Error Message: stk.c.
Problem Description: A request arrived during an STK audit, which couldn't be completed during the audit.
System Action: The request fails.
Administrator Action: Abort the audit or wait until it completes and retry.

PVRS0156 STK hardware defined in HPSS does not exist.

Source Files Generating Error Message: stk.c.
Problem Description: An invalid (non-existent) piece of hardware, or location in hardware was referenced by a request.
System Action: The request fails.
Administrator Action: Investigate PVR and STK configuration and hardware logs to determine the source and reason for invalid components or locations being referenced.

PVRS0157 STK detected duplicate cartridge label.

Source Files Generating Error Message: stk.c.
Problem Description: A cartridge label was read, and it was found to be a duplicate within the STK robotics.
System Action: The request fails and an alarm is generated.
Administrator Action: Investigate the labels on both cartridges claiming to be the one in question.

PVRS0158 STK software unable to communicate with LMU.

Source Files Generating Error Message: stk.c.
Problem Description: The PVR was unable to communicate with the STK Library Management Unit (LMU). The LMU receives and processes all requests for robotic movement for attached LSMs.
System Action: The request fails and an alarm is generated.
Administrator Action: The inability to communicate with an LMU means that no robotic actions can be requested of the STK hardware. This is a serious problem, and the LMU hardware and connections to the LMU should be looked at. This condition will occur if the STK SSI daemon is not running on the same machine as the HPSS PVR. It can also occur if ACSLS is not running, is a different level than the SSI daemon, or is running on a different machine than expected by the SSI. See the STK ACSLS Administration Guide for detailed instructions about properly configuring ACSLS and the SSI.

PVRS0159 STK found cartridge in unexpected location.

Source Files Generating Error Message: stk.c.

Problem Description: A cartridge was found in a location different than where STK's metadata described.
System Action: The request fails and an alarm is generated.
Administrator Action: Investigate to find out how cartridges are being misplaced (human movement of cartridges when an LSM is down is likely). Consider performing audits to ensure location consistency.

PVRS0160 STK cartridge has a missing or unreadable external label.

Source Files Generating Error Message: stk.c.
Problem Description: A cartridge was found with an unreadable external (paper label adhered to outside of cartridge).
System Action: The request fails and an alarm is generated.
Administrator Action: Make sure that robotic cameras are functioning correctly. If so, eject the cartridge in question and repair the label.

PVRS0161 STK cartridge in use or locked by non-HPSS application.

Source Files Generating Error Message: stk.c.
Problem Description: The cartridge in question is either not an HPSS cartridge, or is considered in-use by the STK robotics software.
System Action: Action varies, typically the request will fail. An alarm is always generated.
Administrator Action: Investigate the cartridge identified to see if it is a valid HPSS cartridge, and how it is being used currently.

PVRS0162 STK denied access to cartridge or command.

Source Files Generating Error Message: stk.c.
Problem Description: STK robotics software has refused a PVR request claiming that the PVR shouldn't have access to the cartridge or command issued.
System Action: The request will fail and an alarm is generated.
Administrator Action: STK console logs for details as to the reason for access denial.

PVRS0163 STK attempted to mount media in incompatible drive.

Source Files Generating Error Message: stk.c.
Problem Description: An attempt was made to mount a cartridge in a drive that can not handle its media type.
System Action: The request will fail and an alarm is generated.
Administrator Action: Investigate the configuration information for both the cartridge and drive in question.

PVRS0164 STK ACS offline or idle.

Source Files Generating Error Message: stk.c.
Problem Description: A request was made to an STK complex which is currently not taking requests.

System Action: The request will fail and an alarm is generated.
Administrator Action: Bring the ACS back online after investigating the reason that it was idled or taken offline.

PVRS0165 STK has no CAP with priority greater than 0 that is not in automatic enter mode.

Source Files Generating Error Message: stk.c.
Problem Description: A request was made which required a Cartridge Access Port (CAP). An appropriate CAP was not available.
System Action: The request will fail and an alarm is generated.
Administrator Action: Use the STK ACSLS console to configure CAPS accordingly.

PVRS0166 STK port is offline.

Source Files Generating Error Message: stk.c.
Problem Description: A request was made to an a library using a port that is offline.
System Action: The request will fail and an alarm is generated.
Administrator Action: Use the STK ACSLS console to investigate and configure the port correctly.

PVRS0167 STK gave unexpected return code.

Source Files Generating Error Message: stk.c.
Problem Description: The STK ACSLS software has responded to the STK PVR with an undocumented response that is not expected by the PVR.
System Action: The request will fail and an alarm is generated.
Administrator Action: Investigate STK ACSLS error logs for the source of the unexpected response.

PVRS0170 Unable to determine number of cartridges, using old value.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR failed in its attempt to access metadata to determine how many cartridges it managed.
System Action: The PVR will use the number of cartridges it last thought were in the library.
Administrator Action: Determine why PVR metadata is inaccessible.

PVRS0171 Number of cartridges changed since PVR was last started.

Source Files Generating Error Message: pvr_main.c.
Problem Description: When restarting, the PVR accessed metadata to determine the number of cartridges it managed and found that the number had changed since the PVR went down.
System Action: The PVR will use the new number of cartridges as reported by the PVRs metadata and will update configuration metadata to agree with the new number.

Administrator Action: It is suggested that operations modifying the number of cartridges in a PVR be accomplished when the PVR is up.

PVRS0174 Software error detected.

Source Files Generating Error Message: pvr_util.c, stk.c.
Problem Description: An error was detected in the specific robotic PVR during the set response or get response logic that handles responses traveling from PVR to subsystem (stk:ACSLS).
System Action: System Action varies, typically the current request fails.
Administrator Action: This error should never occur. If it does report to HPSS software support.

PVRS0175 STK drive in use or locked by non-HPSS application.

Source Files Generating Error Message: stk.c.
Problem Description: A request was made to the STK ACSLS software to use a drive which ACSLS believes is in use.
System Action: The request fails.
Administrator Action: Investigate ACSLS console logs.

PVRS0176 STK drive not currently mounted.

Source Files Generating Error Message: stk.c.
Problem Description: A dismount request was requested to a drive that ACSLS believes is dismounted.
System Action: The dismount request fails.
Administrator Action: Investigate ACSLS console and PVR logs to determine whether the PVR really thinks the drive is occupied. Physically inspect the drive for a cartridge.

PVRS0177 PVR Check Config:

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR has a configuration problem.
System Action: The PVR will not start if the configuration issue is severe.
Administrator Action: The error log will inform the administrator about the area with the configuration problem; the administrator should correct the issue. For example, the PVR's Security ACLs (stored in the AUTHZACL table) might have one or more invalid ACL entries; if the minimal entries aren't configured correctly, the PVR will not start up. Consult the *HPSS Management Guide* for additional information about configuring the PVR's Server Security ACLs.

PVRS0178 PVR Event:

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR has an non-error event that it wants to log.
System Action: None.
Administrator Action: None.

PVRS0223 Unable to update PVR Server Specific Configuration information.

Source Files Generating Error Message: pvr_checkin_checkout.c, pvr_inject_eject.c, pvr_pvr.c.
Problem Description: Unable to read or update metadata.
System Action: pvr_checkin_checkout.c: cartridge checkin fails because metadata update fails.
Administrator Action: Investigate metadata call failures. Check metadata server status and check logs.

PVRS0224 Unable to read Cartridge metadata.

Source Files Generating Error Message: pvr_all.c, pvr_cart.c, pvr_checkin_checkout.c, pvr_dismount.c, pvr_inject_eject.c, pvr_mount.c, stk.c.
Problem Description: Unable to read metadata.
System Action: Operations fail.
Administrator Action: Investigate metadata call failures. Check that metadata serve is up and check logs.

PVRS0225 Unable to update Cartridge metadata.

Source Files Generating Error Message: pvr_cart.c, pvr_checkin_checkout.c, pvr_dismount.c, pvr_inject_eject.c, pvr_mount.c.
Problem Description: Unable to edit metadata.
System Action: Operations fail.
Administrator Action: Investigate metadata call failures. Check that metadata server is up and check logs.

PVRS0226 Unable to create a new entry in Cartridge metadata.

Source Files Generating Error Message: pvr_inject_eject.c.
Problem Description: Unable to edit metadata.
System Action: Cartridge inject fails.
Administrator Action: Investigate metadata call failures. Check that metadata server is up and check logs.

PVRS0229 Client requested mount of a cartridge side that does not exist.

Source Files Generating Error Message: pvr_mount.c.
Problem Description: Client believes media has more sides than it does.
System Action: Mount fails.
Administrator Action: Export cartridge and re-import.

PVRS0230 The PVR was told that it mounted a cartridge which is not defined in metadata.

Source Files Generating Error Message: pvr_mount.c.
Problem Description: Volume mounted doesn’t exist in metadata.
System Action: Error logged.
Administrator Action: Physically check for the cartridge in drive. May have to manually dismount drive. Investigate logs to determine origin of mount request.

PVRS0231 The PVR was told that a cartridge was mounted, but was not told which drive.

Source Files Generating Error Message: pvr_mount.c.
Problem Description: Drive isn't known for the mount.
System Action: Continues, drive isn't displayed.
Administrator Action: Ignore, unless recurring.

PVRS0232 The PVR was unable to find the Drive.

Source Files Generating Error Message: pvr_pending_mounts.c, AmlPvrUtil.c, device_Dismount.c, device_Mount.c, scsi.c.
Problem Description: The PVR was unable to get the Drive ID from the Drive Address. This generally occurs when the Drive Address was not found in the PVR's internal drive table; it could also occur if the 'DriveAddrToDriveID' function is incorrectly called.
System Action: The mount request may not occur.
Administrator Action: Investigate HPSS logs; verify drive address.

PVRS0234 PVR signal handling thread encountered an error and is exiting.

Source Files Generating Error Message: pvr_main.c.
Problem Description: Signal handler thread is not running.
System Action: PVR continues but won't handle signals.
Administrator Action: None, unless recurring.

PVRS0239 Reissuing mount request that was pending when PVR was terminated.

Source Files Generating Error Message: pvr_main.c.
Problem Description: This cartridge has a mount pending. The PVR will reissue the mount request. This will put the cartridge back in the pending mount queue. It will also reissue Robotic and SSM commands to get the cartridge mounted.
System Action: PVR will attempt to reissue mount request.
Administrator Action: None, informational.

PVRS0240 Reissuing dismount request that was pending when PVR was terminated.

Source Files Generating Error Message: pvr_main.c.
Problem Description: This cartridge has a dismount pending. The PVR will reissue the dismount request.
System Action: PVR will reissue the dismount request.
Administrator Action: None, informational.

PVRS0241 Reissuing eject request that was pending when PVR was terminated.

Source Files Generating Error Message: pvr_main.c.
Problem Description: This cartridge has an eject pending. The PVR will reissue the eject request.
System Action: PVR will reissue the eject request.
Administrator Action: None, informational.

PVRS0242 **Could not initialize security services.**

Source Files Generating Error Message: pvr_main.c.
Problem Description: Security initialization failed.
System Action: PVR terminates.
Administrator Action: Check the local HPSS log for more information. Check status of other servers as this may be a systemic failure.

PVRS0243 **Unexpected abort from Metadata transaction.**

Source Files Generating Error Message: pvr_checkin_checkout.c, pvr_inject_eject.c, pvr_main.c.
Problem Description: Metadata transaction was aborted.
System Action: In some cases the aborted transaction is critical and the PVR will terminate. In other cases the transaction aborts and the operation fails but the PVR continues.
Administrator Action: Investigate logs for origin of transaction abort reason.

PVRS0244 **A cartridge was unexpectedly found mounted.**

Source Files Generating Error Message: pvr_mount.c.
Problem Description: Non-HPSS software mounted an HPSS cartridge.
System Action: None.
Administrator Action: None.

PVRS0245 **The PVR was asked to eject a cartridge that had already been removed from the robot.**

Source Files Generating Error Message: stk.c.
Problem Description: The cartridge is not in the library.
System Action: Eject continues.
Administrator Action: None.

PVRS0246 **Invalid Drive Address in STK PVR.**

Source Files Generating Error Message: stk.c.
Problem Description: Drive ID in the wrong format.
System Action: Operation will fail.
Administrator Action: Check metadata drive address.

PVRS0248 **Error loading drive information from metadata.**

Source Files Generating Error Message: pvr_main.c.
Problem Description: Didn’t get a full list of drives from the PVL for this PVR.
System Action: May continue in degraded mode.
Administrator Action: Investigate, the PVR may not be running with full set of drives known.

PVRS0249 **Mount failed, no drives in the robot are empty and online, or the robot is offline.**

Source Files Generating Error Message: AmlPvrUtil.c, device_Mount.c, scsi.c, stk.c.
Problem Description: No drives available for mount request. The PVL has sent down a request for a mount but there isn't a drive available. This shouldn't be a recurring error since the PVR should offline a drive which fails.
System Action: The mount request will suspend and be retried later.
Administrator Action: None, unless error is recurring. If recurring, check drive status. If a deferred dismount job exists, cancel it which should free up available drives.

PVRS0250 Unexpected software failure accessing mutex.

Source Files Generating Error Message: pvr_notify.c, pvr_util.c.
Problem Description: Failed to initialize HPSS mutex.
System Action: None.
Administrator Action: None.

PVRS0255 No drives are defined in Metadata for this PVR.

Source Files Generating Error Message: pvr_main.c.
Problem Description: Unable to read PVL drive list from metadata. No drives will be defined for this PVR.
System Action: None.
Administrator Action: Investigate metadata server status. PVR may have to be restarted.

PVRS0258 Cartridge mounted.

Source Files Generating Error Message: stk.c.
Problem Description: The PVR is reporting the mount of a cartridge in a drive address.
System Action: None.
Administrator Action: None, informational.

PVRS0259 Cartridge not readable in drive, will retry in another drive.

Source Files Generating Error Message: pvr_util.c.
Problem Description: The PVR thought the mount was a success but the PVL was unable to read the label. A second possibility is that the number of retries attempts has been reached and the operation fails.
System Action: The PVR will attempt to mount the cartridge in a different drive.
Administrator Action: Monitor cartridge, if this error continues in different drives, the cartridge may be damaged.

PVRS0260 Cartridge not readable in too many drives, mount failed.

Source Files Generating Error Message: pvr_mount.c, pvr_util.c.
Problem Description: The number of retries attempts has been reached and the operation fails.

System Action: Mount fails.
Administrator Action: If error recurring, investigate log to determine the drive which is causing the failure.

PVRS0262 The PVR detected a drive that is offline, informing PVL.

Source Files Generating Error Message: stk.c.
Problem Description: PVR advising PVL that a drive it thinks is online should be set to offline.
System Action: The PVL will lock the drive.
Administrator Action: Monitor, if multiple drives are locked it may be due to a library software problem.

PVRS0265 hpss_InitServer failed, PVR failed to initialize, terminating

Source Files Generating Error Message: scsi.c, scsi_private.c
Problem Description: PVR is reporting that it was unable to initialize due to some previous error.
System Action: The PVR will fail to start.
Administrator Action: Investigate previous error messages from the PVR.

PVRS0267 Repository Cartridge Threshold OK.

Source Files Generating Error Message: pvr_main.c.
Problem Description: The PVR is reporting that the cartridge threshold is now okay (i.e. within threshold limits).
System Action: None,
Administrator Action: None, informational.

PVRS0273 PVR unable to connect to SSM.

Source Files Generating Error Message: pvr_notify.c.
Problem Description: Connection to SSM is bad.
System Action: Connection restore is attempted.
Administrator Action: None, unless error recurring. Investigate logs and SSM status.

PVRS0274 PVR reestablished connection to SSM.

Source Files Generating Error Message: pvr_notify.c.
Problem Description: Successfully connected to SSM, previously disconnected.
System Action: None.
Administrator Action: None.

PVRS0275 PVR unable to connect to PVL.

Source Files Generating Error Message: pvr_util.c.
Problem Description: Unable to communicate with the PVL.
System Action: PVR will periodically attempt to reconnect to the PVL.
Administrator Action: Check PVL state, inspect logs for cause.

PVRS0276 PVR reestablished connection to PVL.

Source Files Generating Error Message: pvr_util.c.
Problem Description: Successfully connected to PVL, previously disconnected.
System Action: None.
Administrator Action: None.

PVRS0277 PVR request timed out, no response from robot.

Source Files Generating Error Message: stk.c.
Problem Description: Request sent to STK library, no response.
System Action: Mount will be retried.
Administrator Action: Investigate HPSS and robot specific logs for cause. Set the PVR status to repaired to initiate the mount retry immediately.

PVRS0278 PVR waiting for mount status change before continuing.

Source Files Generating Error Message: pvr_pending_mounts.c.
Problem Description: A robot returned an error attempting to mount volume.
System Action: Mount request will be retried at intervals.
Administrator Action: Investigate HPSS and robot specific logs for cause. Set the PVR status to repaired to initiate the mount retry immediately.

PVRS0279 Drive already in job, remove from mount drive list.

Source Files Generating Error Message: pvr_util.c.
Problem Description: Status message, notes that a drive was removed from available drives to be used for this job.
System Action: None.
Administrator Action: None.

PVRS0282 Fatal initialization error:

Source Files Generating Error Message: pvr_main.c, stk.c.
Problem Description: Various initialization errors for the server on startup.
System Action: The server will terminate.
Administrator Action: Investigate, is this a happening to other servers. Possibly an ACL problem. If the error continues, call support.

PVRS0284 acs_response: Bad response type returned.

Source Files Generating Error Message: stk.c.
Problem Description: The invalid response type value is returned in message.
System Action: None.
Administrator Action: Use the return value to check STK documentation for error cause.

PVRS0286 AML RPC failure.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR could not send a request to the DAS server component or it did not reply.
System Action: None.
Administrator Action: Verify that TCP/IP services are started on both workstation and the AMU controller OS/ 2 PC.- Issue a rpcinfo -p command from the workstation to verify that the RPC services are started correctly- Verify that the environment variable DAS_SERVER specifies the DAS server IP address or host name and that the host name can be resolved into an IP address.

PVRS0287 AML aci parameter invalid.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR sent a request to the DAS with incorrect parameters.
System Action: None.
Administrator Action: Check the HPSS log file for additional information; this error indicates that the AML PVR may have passed incorrect data to DAS.

PVRS0288 AML volume not found of this type.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR sent a request for a volume and the media type was mismatched.
System Action: None.
Administrator Action: Check the AMU AMS Log window and the AMU AMS configuration to verify that the volume and media type matched. User can issue the "dasadmin view" command to check the attribute of the volume.

PVRS0289 AML drive not in Grau ATL.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR requested a drive that was not in the AMU AMS configuration.
System Action: None.
Administrator Action: Verify that the drive configuration in the DAS server configuration file matches the AMU AMS configuration and physical configuration in the archive.

PVRS0290 AML requested drive is in use.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: The drive requested by the AML PVR is in use.
System Action: None.
Administrator Action: This indicates a tape is mounted into the drive from outside of HPSS. Check to verify that the drive is unlocked and "polling" is on. This should disallow the attempts to use the drive reserved for HPSS.

PVRS0291 AML robot has a physical problem with the volume.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR issued a request to move a volume, but the handling failed, or bar code could not be read.
System Action: None.
Administrator Action: If the robot move the volume to the EIF station, examine the cartridge, make sure the label is still attached and in good condition; issue the "dasadmin insert" command to put the cartridge back to the tower, retry to issue the command again.

PVRS0292 AML internal error in the AMU.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: An invalid return code from the AMU.
System Action: None.
Administrator Action: Analyze the AMU AMS log window to determine the cause of the error. Correct the error if possible, and if the problem persists, call DAS support representative, since this may require restart DAS to clear the error.

PVRS0293 AML DAS was unable to communicate with the AMU.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: The DAS server issued a request to the AMU AMS, but it did not response.
System Action: System Action: None.
Administrator Action: Use the AMU AMS log window to determine the problem, correct as necessary.

PVRS0294 AML robotic system is not functioning.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: The AML robot system is not functioning.
System Action: None.
Administrator Action: Verify that the robot is on-line, and the AMU AMS log window does not have robot errors. Correct the errors as necessary.

PVRS0295 AML AMU was unable to communicate with the robot.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: The robot did not response to the AMU request.
System Action: None.
Administrator Action: Verify that the robot is on-line, and the AMU AMS log window does not have communication errors. Correct the communication errors as necessary.

PVRS0296 AML DAS system is not active.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: DAS server is not active.
System Action: None.

Administrator Action: Verify that the DAS server is active; start or restart DAS server. If the DAS initialization fails, verify that the AMU software is running and that the TCP/IP services is started.

PVRS0297 AML drive did not contain an unloaded volume.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR issued a dismount request but the drive did not unload/eject the volume and the robot could not move the volume.
System Action: None.
Administrator Action: Try to issue the "mt -f /dev/rmtxx rewoffl" command to unload the tape to verify that the drive is still capable to unload a tape.

PVRS0298 AML invalid registration.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: A request made by a client which is not defined in the DAS server configuration file.
System Action: If the Client Name is changed, the AML PVR needs to be recycled to pick up the new change.
Administrator Action: Verify that the Client Name set in the AML PVR Server Type Specific configuration is same as the client name defined in the DAS server configuration file.

PVRS0299 AML invalid hostname or ip address.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: The supplied host name or TCP/IP address of the client’s request did not match the DAS server/client configuration.
System Action: If the Client Name or Host Name is changed, the AML PVR needs to be recycled to pick up the new change.
Administrator Action: Verify that the Client Name and Host Name in the AML PVR Server Type Specific Configuration match the DAS server configuration file’s.

PVRS0300 AML area name does not exist.

Source Files Generating Error Message: AmlPvrUtil.c, device_Eject.c.
Problem Description: PVR issued a request required an insert or eject area that is not configured for the PVR or is not in the AMU AMS configuration.
System Action: User needs to recycle the AMP PVR after the reconfiguration of the AML_EjectPort.conf and AML_InsertPort.conf so that the device_Init function can pick up the new changes.
Administrator Action: Verify that AMU AMS is configured for the requested insert or eject area; verify that the `/var/hpss/etc/AML_EjectPort.conf` and `/var/hpss/etc/AML_InsertPort.conf` are matched the AMU MAS configuration.

PVRS0301 AML client is not authorized to make this request.

Source Files Generating Error Message: AmlPvrUtil.c.

Problem Description: A request was made for an operation that required access privilege of "complete". Since the requesting client has only the "basic" access rights, the request is refused.
System Action: If the Client Name is changed, the AML PVR needs to be recycled to pick up the new change.
Administrator Action: Verify the access privilege of the client.

PVRS0302 AML dynamic area became full, insertion stopped.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: A request was made to insert a volume into a dynamically defined area, which was full or was not set correctly to provide bin selections for insert requests.
System Action: None.
Administrator Action: Verify that the AMU AMS archive positions for the particular media type are available and defined as an AMU DYNAMIC storage type. Configure the storage area accordingly and retry.

PVRS0303 AML drive is currently available to another client.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR tried to access a drive that is not configured for the PVR.
System Action: None.
Administrator Action: Verify that the drive status is UP for the requesting client and that the drive is not assigned to another client.

PVRS0304 AML client does not exist.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: Client name is not defined in the DAS server configuration file.
System Action: If the Client Name is changed, the AML PVR needs to be recycled to pick up the new change.
Administrator Action: Verify that the client name id defined in the DAS configuration file. Make the necessary correction.

PVRS0305 AML dynamic area does not exist.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: A request involves a dynamic insert or eject area that may not be defined in the DAS server configuration file or may not be defined as a logical range in the AMU AMS configuration.
System Action: If the `/var/hpss/etc/AML_InsertPort.conf` or `/var/etc/hpss/etc/AML_EjectPort.conf` is modified, then AML PVR must be recycled so device_Init function can pick up the new port assignments.
Administrator Action: Verify that the areas are defined in the DAS server configuration file, physically in the robot, and logically defined in the AMU AMS configuration.

PVRS0306 **AML no request exists with this number.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: Request ID does not exist.
System Action: None.
Administrator Action: This error only occur if the dasadmin cancel command was issued with an incorrect request ID.

PVRS0307 **AML retry attempts exceeded.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: Number of retries was exceeded.
System Action: None.
Administrator Action: View the AMU AMS Log window to determine the problems.

PVRS0308 **AML requested volser is not mounted.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: A request was sent to dismounted an unmounted volume.
System Action: System Action: None.
Administrator Action: View the AMU AMS Log window for additional information.

PVRS0309 **AML requested volser is in use.**

Source Files Generating Error Message: AmlPvrUtil.c, device_Mount.c.
Problem Description: The requested volume is in use.
System Action: None.
Administrator Action: Monitor logs to understand why the volume is in use.

PVRS0310 **AML no space available to add range.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: DAS configuration cannot add a new volser range.
System Action: None.
Administrator Action: Reconfigure the DAS server configuration file as necessary.

PVRS0311 **AML range or object was not found.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: The requested resource is not configured or available in the archive.
System Action: If the `/var/hpss/etc/AML_InsertPort.conf` or `/var/etc/hpss/etc/AML_EjectPort.conf` file is modified, then AML PVR must be recycled so device_Init function can pick up the new port assignments.
Administrator Action: Verify that the resource is defined in the DAS server configuration file and the archive is configured accordingly.

PVRS0312 **AML request was cancelled by aci_cancel().**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: A previously issued request was cancelled by a dasadmin cancel or shutdowns command.
System Action: None.
Administrator Action: None.

PVRS0313 **AML internal DAS error.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: DAS server component encountered an internal error and cannot continue.
System Action: None.
Administrator Action: Check the AMU AMS Log window for additional information. If necessary, correct the errors and restart DAS server.

PVRS0314 **AML internal ACI error.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: ACI component encountered an unrecoverable error.
System Action: None.
Administrator Action: View HPSS log to determine the error since the error is probably was originated from the AML PVR itself.

PVRS0317 **AML volser is still in another pool.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: Volume is already defined in another scratch pool.
System Action: None.
Administrator Action: Specify the correct pool name, or undefined the volume and redefined it to the correct pool.

PVRS0318 **AML drive in cleaning.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR requested a drive is currently being cleaned.
System Action: None.
Administrator Action: Wait until the drive clean operation is completed.

PVRS0319 **AML The aci request timed out.**

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR call to DAS/ACI was not returned after 10 minutes (default).
System Action: None.
Administrator Action: Examine the AMU AMS Log window to determine the time-out errors.

PVRS0320 AML the robot has a problem with handling the device.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: (This error code is not explained anywhere in the EMASS AML documents).
System Action: None.
Administrator Action: Examine the AMU AMS Log window for more information.

PVRS0321 AML Internal Errors.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: AML returned an unknown error to the PVR.
System Action: None.
Administrator Action: Examine the HPSS log file and the AMU AMS Log window to determine the errors.

PVRS0322 Cannot create pipe for interprocess communication.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: AML wasn’t able to create a pipe for interprocess communication.
System Action: PVR can’t continue.
Administrator Action: Examine the AMU AMS Log window for communication errors. Examine HPSS error logs for supporting error logs. Check if the system file table is full; check if the process exceeded the limit for open files.

PVRS0323 Cannot fork() a process.

Source Files Generating Error Message: AmlPvrUtil.c, device_Dismount.c, device_Eject.c, device_Inject.c, device_Mount.c.
Problem Description: PVR was unable to make the 'fork' system call.
System Action: PVR can’t continue request.
Administrator Action: Examine HPSS error logs for supporting error logs. Examine system logs. Check system resources: the system/user may be unable to create another process due to resources or system/user-imposed limits.

PVRS0324 Cannot write to pipe.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR was unable to make the 'write' system call to a pipe.
System Action: PVR can’t continue request.
Administrator Action: Examine the AMU AMS Log window for communication errors. Examine HPSS error logs for supporting error logs. Check system resources.

PVRS0325 Cannot read from pipe.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR was unable to make the 'read' system call to a pipe.
System Action: PVR can’t continue request.

Administrator Action: Examine the AMU AMS Log window for communication errors. Examine HPSS error logs for supporting error logs. Check system resources.

PVRS0326 Cannot query AML database.

Source Files Generating Error Message: device_Eject.c, device_Locate.c, device_Mount.c.
Problem Description: AML PVR cannot query the cartridge.
System Action: PVR can’t continue request.
Administrator Action: Check if the cartridge is already in a drive or whether or not it exists.

PVRS0327 Cannot read AML Eject port config file.

Source Files Generating Error Message: AmlPvrUtil.c, device_Init.c.
Problem Description: AML PVR is unable to process the configuration file. The error log will report which symbol it expected at which line.
System Action: PVR will continue to the next line of the configuration file.
Administrator Action: Verify validity of the configuration file.

PVRS0328 AML Eject port is full.

Source Files Generating Error Message: AmlPvrUtil.c, device_Eject.c.
Problem Description: AML PVR Eject port is full.
System Action: None.
Administrator Action: Clear the eject port.

PVRS0329 Cannot waitpid on child process.

Source Files Generating Error Message: AmlPvrUtil.c.
Problem Description: PVR was unable to make the 'waitpid' system call.
System Action: PVR abandons wait.
Administrator Action: Examine HPSS error logs for supporting error logs. Examine system logs. Check system resources.

PVRS0330 Entering pvr_CheckIn.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0331 Exiting pvr_CheckIn.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0332 Entering pvr_CheckOut.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0333 Exiting pvr_CheckOut.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0334 Entering pvr_ListPendingCheckIn.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0335 Exiting pvr_ListPendingCheckIn.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0336 Entering pvr_CancelPendingCheckIn.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0337 Exiting pvr_CancelPendingCheckIn.

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0338 Checking out cartridge.

Source Files Generating Error Message: pvr_log.c.
Problem Description: PVR is logging metadata associated with a cartridge being checked out.
System Action: None.
Administrator Action: None, informational.

PVRS0340 Reissuing check in request that was pending when PVR was terminated.

Source Files Generating Error Message: pvr_main.c.
Problem Description: This cartridge has a check in pending. The PVR will reissue the check in request.
System Action: PVR will reissue the check in request.
Administrator Action: None, informational.

PVRS0341 Reissuing check out request that was pending when PVR was terminated.

Source Files Generating Error Message: pvr_main.c.
Problem Description: This cartridge has a check out pending. The PVR will reissue the check out request.
System Action: PVR will reissue the check out request.
Administrator Action: None, informational.

PVRS0344 Failed to initialize check in queue.

Source Files Generating Error Message: pvr_main.c.
Problem Description: Failed to start a thread to handle the check in requests. This problem occurs during PVR initialization phase. It only happens on the PVR that supports Shelf Tape feature. The problem is caused by system can not allocate resources for this PVR process.
System Action: The PVR process will not start.
Administrator Action: Terminate the nonessential processes to free up resources and restart the PVR process.

PVRS0345 Cartridge has not been checked in.

Source Files Generating Error Message: pvr_pending_checkin.c.
Problem Description: If a referenced file is on a shelved tape, the request will show up in the Tape Check-in Requests window. After a configured time period, if the tape has not been checked back into the library, this minor warning message will be displayed in the Alarms and Events window.
System Action: Periodically prints out minor error message in the Alarms and Events window.
Administrator Action: Retrieve the tape from the off-line shelf and put back into the library.

PVRS0346 Checking out cartridge, need to be unloaded.

Source Files Generating Error Message: pvr_log.c.

Problem Description: Whenever a tape is checked out from a tape library, this message displayed in the Alarms and Events window to remind the system administrator to remove the tape from the tape library's I/O port.
System Action: None.
Administrator Action: Remove the tape from the tape library's I/O port.

PVRS0350 Eject Request Timed Out.

Source Files Generating Error Message: stk.c.
Problem Description: A eject request has timed out. The library may not have ejected the cartridge or the ejected response may have been lost.
System Action: Error returned.
Administrator Action: Investigate the status of the library and the cartridge.

PVRS0351 Metadata Lookup Call for drive info Failed.

Source Files Generating Error Message: pvr_main.c.
Problem Description: A PVL drive metadata lookup call failed.
System Action: Drive is eliminated from the available pool.
Administrator Action: Investigate the metadata server status.

PVRS0352 No drives in PVR available for mount, skipping pending mount on startup.

Source Files Generating Error Message: pvr_main.c.
Problem Description: There is not a drive available(correct type and unlocked) available to service a pending mount on PVR restart.
System Action: Error generated.
Administrator Action: Investigate the status of drives. Investigate the metadata server status.

PVRS0353 NO CAPs were found with priority set. HPSS EJECTS will fail. See STK PVR Appendix for information on setting CAP priority.

Source Files Generating Error Message: stk.c.
Problem Description: If a HPSS eject is attempted, it will fail because a priority has not been assigned to any CAPs..
System Action: HPSS export will fail if export attempted.
Administrator Action: Assign a priority to CAP before attempting an HPSS export.

PVRS0354 CAP priority is NOT set. This CAP will NOT be used for HPSS Ejects(See STK PVR Appendix for information on setting CAP priority).

Source Files Generating Error Message: stk.c.
Problem Description: The reported CAP will not be used for HPSS Exports.
System Action: HPSS will use a CAP with priority assigned.
Administrator Action: Assign priority to CAP if its intended for HPSS export use.

PVRS0355 **STK Robot eject failed due to CAP in use or library busy. Check CAP priority, it must be set for HPSS Eject to succeed(See STK PVR Appendix for information on setting CAP priority).**

Source Files Generating Error Message: stk.c.
Problem Description: The eject failed due to CAP full or library busy..
System Action: Eject will be retried.
Administrator Action: Unload CAP(if full), investigate status of library.

PVRS0356 **STK volume ejects are done asynchronously. The volume(s) will be physically moved to a CAP and should be removed.**

Source Files Generating Error Message: stk.c.
Problem Description: The STK PVR is (or will be) ejecting a volume(s). The volume(s) will be physically moved to a CAP and should be removed.
System Action: None.
Administrator Action: Watch for and then remove volume(s) from CAP.

PVRS0357 **ACSLM has lost contact with CSI/SSI. Check for ssi and mini_el running on your PVR associated platform and check your ACSLS platform servers(csi).**

Source Files Generating Error Message: stk.c.
Problem Description: Communication error..
System Action: Error returned.
Administrator Action: Investigate Communication pathway, ACSLS servers.

PVRS0358 **The query volume call reports a volume in drive but the acs_dismount call reports no volume in drive. Potential hardware error. Manually inspect library for cartridge location.**

Source Files Generating Error Message: stk.c.
Problem Description: The query volume call reports a volume in drive but the acs_dismount call reports no volume in drive.
System Action: Potential hardware error.
Administrator Action: Manually inspect library for cartridge location.

PVRS0359 **An Invalid ACSLS Packet Version value(2, 3 or 4 is valid) found in PVR Server Configuration. Using default value(3).**

Source Files Generating Error Message: stk.c.
Problem Description: Configuration error..
System Action: PVR will use default value of 3.
Administrator Action: Correct server metadata value.

PVRS0360 **The number of Shelf cartridges in this PVR:**

Source Files Generating Error Message: pvr_main.c.
Problem Description: PVR is reporting the number of shelf cartridges currently in this PVR.
System Action: None.

Administrator Action: None, informational.

PVRS0362 Exporting cartridge.

Source Files Generating Error Message: pvr_log.c.
Problem Description: The PVR is exporting a cartridge and logging specifics about that cartridge.
System Action: None - informational.
Administrator Action: None.

PVRS0364 A Pending Mount has exceeded its Retry Time Limit. Mount Aborted.

Source Files Generating Error Message: pvr_mount.c.
Problem Description: Pending mount request has exceeded retry time limit.
System Action: Mount request fails.
Administrator Action: Investigate status of library. Cancel deferred dismount job if deferred drives are the correct media type.

PVRS0375 An ACSLM spawned process failure.

Source Files Generating Error Message: stk.c.
Problem Description: The ACSLM was not able to spawn the request of the ACSLM received a process failure from a spawned process.
System Action: The operation will pend.
Administrator Action: Investigate STK infrastructure (ssi & mini_el on client, ACSLS processes on the ACSLS server). If available, use a non-HPSS server utility to exercise robot.

PVRS0376 Request unsuccessful due to failure of the ACS library component.

Source Files Generating Error Message: stk.c.
Problem Description: A request requiring ACS library resources failed due to the failure of the ACS library component.
System Action: Error handled as hardware originated. A mount operation will pend.
Administrator Action: Investigate STK infrastructure (ssi & mini_el on client, ACSLS processes on the ACSLS server). If available, use a non-HPSS server utility to exercise robot.

PVRS0377 PVR detected multiple consecutive mount errors, Locking drive.

Source Files Generating Error Message: pvr_util.c.
Problem Description: The PVR will "lock" a drive after the configuration defined number of drive errors (or default value of 5) have occurred. Consecutive error by different cartridges are required.
System Action: The drive will be made unavailable.
Administrator Action: Investigate specified drive.

PVRS0378 Specified drive was not found in PVRs Drive Table.

Source Files Generating Error Message: pvr_util.c.

Problem Description: The specified drive is not in the drive table.
System Action: The drive error count is not incremented.
Administrator Action: Notify support. This error can result in a drive which should be automatically disabled remaining available. Check for any drive with consecutive errors and manually "lock".

PVRS0379 STK Request:

Source Files Generating Error Message: stk.c.
Problem Description: Debugging message.
System Action: None.
Administrator Action: None.

PVRS0380 STK Response:

Source Files Generating Error Message: stk.c.
Problem Description: Debugging message.
System Action: None.
Administrator Action: None.

PVRS0381 Cartridge reported IN_TRANSIT.

Source Files Generating Error Message: stk.c.
Problem Description: Specified tape cartridge is in transit (in-between a home location and a tape drive (or pass thru port)).
System Action: The operation will pend for 5 minutes. This message will be output periodically.
Administrator Action: Investigate the cause of the failure. The cartridge may be stuck in drive or pass thru port.

PVRS0382 Dismount failed due to STK IN_TRANSIT status, Check via ACSLS interface.

Source Files Generating Error Message: stk.c.
Problem Description: A cartridge has remained in transit state for over 5 minutes.
System Action: The cartridge has remained in transit state for over 5 minutes. The operation will error out.
Administrator Action: Investigate the cause of the failure. The cartridge may be stuck in drive or pass thru port.

PVRS0383 Cartridge IN_TRANSIT too long, Intervention necessary.

Source Files Generating Error Message: stk.c.
Problem Description: Specified tape cartridge is in transit (in-between a home location and a tape drive (or pass thru port)).
System Action: The cartridge has been in transit over 2 minutes, PVR operational state set to MAJOR.
Administrator Action: Investigate the cause of the failure. The cartridge may be stuck in drive or pass thru port.

PVRS0384 Metadata read call successful but record count is zero.

Source Files Generating Error Message: pvr_main.c.
Problem Description: PVR is looking for the PVL server in metadata and cannot find it.
System Action: PVR will terminate.
Administrator Action: Check metadata configuration for executable PVL.

PVRS0385 An executable PVL was NOT found.

Source Files Generating Error Message: pvr_main.c.
Problem Description: Executable PVL metadata configuration was not detected.
System Action: PVR will terminate.
Administrator Action: Check metadata configuration for executable PVL.

PVRS0386 A NULL UUID detected.

Source Files Generating Error Message: pvr_main.c.
Problem Description: An invalid (nil) UUID was detected in PVL's metadata configuration.
System Action: PVR will terminate.
Administrator Action: Check PVL's UUID in metadata.

PVRS0387 Metadata Select call failed.

Source Files Generating Error Message: pvr_all.c, pvr_main.c.
Problem Description: A metadata select call failed.
System Action: A error is returned to calling routine and the operation will fail.
Administrator Action: Check metadata server status. If the same cartridge fails, check the cartridge outside of HPSS via metadata server call.

PVRS0388 Metadata Read Record call failed.

Source Files Generating Error Message: pvr_main.c.
Problem Description: A metadata read record call failed.
System Action: error will cause those cartridges to remain unmounted.
Administrator Action: Check Drive metadata for correct subtype values. Cancel any PVL mount pending jobs for the affected cartridges.

PVRS0389 Unknown drive subtype detected in metadata.

Source Files Generating Error Message: pvr_main.c.
Problem Description: PVR is generating a drive list and was given an unexpected/ bad drive subtype.
System Action: PVR won't be able find a correct drive type to service this cartridge.
Administrator Action: Check Drive metadata for correct subtype values. Cancel any PVL mount pending jobs for the affected cartridges.

PVRS0390 Exceeded number of drives allowed for a single PVR.

Source Files Generating Error Message: pvr_main.c.
Problem Description: Exceeded number of drives allowed in a single PVR.
System Action: Any drives exceeding max will not be used.
Administrator Action: Inform support, the maximum drives can be increased if lower level library software supports it.

PVRS0391 mm_CreateAutoTranHandle call failed.

Source Files Generating Error Message: pvr_util.c.
Problem Description: Transaction library call failed.
System Action: System Action: Cartridges in mount pending state will not be processed.
Administrator Action: Cancel any PVL mount pending jobs for the affected cartridges.

PVRS0392 An executable SSM was NOT found.

Source Files Generating Error Message: pvr_main.c.
Problem Description: PVR was unable to find an executable Storage System Manager (SSM) in metadata.
System Action: PVR will continue in a degraded mode since it will be unable to inform the SSM of various events/conditions.
Administrator Action: Check metadata configuration for executable SSM.

PVRS0393 Metadata read call successful but record count is zero.

Source Files Generating Error Message: pvr_main.c.
Problem Description: PVR is looking for the Storage System Manager (SSM) server in metadata and cannot find it.
System Action: PVR will continue in a degraded mode since it will be unable to inform the SSM of various events/conditions.
Administrator Action: Check metadata configuration for executable SSM.

PVRS0394 SubRoutine Return.

Source Files Generating Error Message: pvr_all.c, pvr_checkin_checkout.c, pvr_main.c, pvr_util.c.
Problem Description: PVR called a SubRoutine that returned an error. PVR will report the SubRoutine that returned an error, the error code and return this error to the caller.
System Action: PVR will attempt to continue wherever it can.
Administrator Action: Check HPSS error logs. These logs are generally from the metadata library; if so, check logs for potential database problems.

PVRS0395 Metadata access failure, cartridges in pending state will not be processed.

Source Files Generating Error Message: pvr_main.c.
Problem Description: PVR is unable to get a transaction handle to the metadata infrastructure while processing pending cartridges.

System Action: PVR can't process pending cartridges.
Administrator Action: Check HPSS error logs. Check database configuration and logs.

PVRS0396 Transaction infrastructure failed and issued tran_ServerAbort.

Source Files Generating Error Message: pvr_main.c.
Problem Description: HPSS system transaction macro required infrastructure failure.
System Action: PVR terminates.
Administrator Action: Call support.

PVRS0397 Transaction infrastructure received an error.

Source Files Generating Error Message: pvr_log.c.
Problem Description: Transaction macro detected error.
System Action: Error logged.
Administrator Action: Monitor server. If errors continue, check metadata server.

PVRS0398 Failure opening SCSI library command device.

Source Files Generating Error Message: scsi.c.
Problem Description: HPSS was unable to open the device specified for the SCSI PVR.
System Action: Error logged. Until device is opened, further actions with the library will fail.
Administrator Action: Verify the Command Device name in the SCSI PVR configuration or PVR_SCSI_CMD_ENV environment variable, if used. Investigate the status of the library.

PVRS0399 Failure querying cartridge element.

Source Files Generating Error Message: scsi.c.
Problem Description: Robotics failed to locate a requested cartridge.
System Action: Mount or dismount will fail.
Administrator Action: Investigate robotics for lost cartridge. Use robot specific utilities outside of HPSS to query cartridge location.

PVRS0400 Failure issuing SCSI mode sense command.

Source Files Generating Error Message: scsi.c.
Problem Description: A command requesting sense (error) data failed.
System Action: Error logged.
Administrator Action: Investigate status of library.

PVRS0401 Failure issuing SCSI read element status command.

Source Files Generating Error Message: scsi.c.
Problem Description: A command requesting the status of an element in the library failed.
System Action: Error logged. Action involving element will abort.

Administrator Action: Investigate status of library and element.

PVRS0402 Failure issuing SCSI move medium command.

Source Files Generating Error Message: scsi.c.
Problem Description: A command to move a cartridge failed.
System Action: Error logged. Mount, dismount, or eject operation will abort.
Administrator Action: Investigate status of library. and cartridge.

PVRS0404 Failure moving cartridge.

Source Files Generating Error Message: scsi.c.
Problem Description: A mount, dismount, or eject operation failed.
System Action: Error logged. Mount, dismount, or eject operation will abort.
Administrator Action: Investigate status of library and cartridge.

PVRS0405 Failure getting element status.

Source Files Generating Error Message: scsi.c.
Problem Description: An operation to get the status of an element in the library failed.
System Action: Error logged. Action involving element will abort.
Administrator Action: Investigate status of library and element.

PVRS0406 Failure getting library configuration.

Source Files Generating Error Message: scsi.c.
Problem Description: An operation to get an inventory of the library failed.
System Action: Error logged.
Administrator Action: Investigate status of library.

PVRS0407 Failure parsing element status.

Source Files Generating Error Message: scsi.c.
Problem Description: Error in parsing the data returned from a get element status command.
System Action: Error logged. Status of element will remain undetermined.
Administrator Action: Investigate status of library and element.

PVRS0408 SCSI device is not a medium changer.

Source Files Generating Error Message: scsi.c.
Problem Description: The specified command device name is not a medium changer.
System Action: Error logged. Further actions with the specified command device name will fail.
Administrator Action: Verify the Command Device name in the SCSI PVR configuration or PVR_SCSI_CMD_ENV environment variable, if used. Investigate the status of the library.

PVRS0409 Unsupported SCSI version.

Source Files Generating Error Message: scsi.c.
Problem Description: The SCSI version of the specified library is not supported by HPSS.
System Action: Error logged. Further actions with the library will fail.
Administrator Action: Contact HPSS support. Medium changer is not supported by HPSS.

PVRS0410 Unsupported medium changer.

Source Files Generating Error Message: scsi.c.
Problem Description: The configured medium changer is not supported by HPSS.
System Action: Error logged. Further actions with the specified library will fail.
Administrator Action: Contact HPSS support. Medium changer is not supported by HPSS.

PVRS0411 Eject failed because IO port is full. Please empty IO port.

Source Files Generating Error Message: scsi.c.
Problem Description: I/O station is full.
System Action: Future eject operations will be queued until I/O station is empty.
Administrator Action: Empty I/O station.

PVRS0412 No drives exist in system

Source Files Generating Error Message: pvr_main.c.
Problem Description: No drives exist
System Action: PVR will continue to run; but it can’t do much without any drives.
Administrator Action: Add HPSS drives to the HPSS system.

PVRS0413 PVR Shutdown pends while calls Active.

Source Files Generating Error Message: pvr_notify.c.
Problem Description: PVR sends out this log every 10 seconds or so noting that there is Storage System Manager (SSM) activity outstanding preventing the PVR from shutting down.
System Action: PVR can’t shutdown until SSM activity is complete.
Administrator Action: Verify that the SSM is running and that the PVR can communicate with it.

PVRS0414 PVR Cannot Dismount to Home Location.

Source Files Generating Error Message: scsi.c.
Problem Description: PVR is unable to dismount the cartridge to the home location.
System Action: PVR will attempt to move the cartridge to the first available slot, but will retain original home location in metadata to be retried.
Administrator Action: Determine if there is another cartridge in the error cartridge’s home location. If so, determine the offending cartridge’s home location (if any), and move it there. Then move the error cartridge to its home location.

PVRS0415 PVR error in pthread_cond_timedwait

Source Files Generating Error Message: scsi_private.c.
Problem Description: A call to pthread_cond_timedwait has failed. Depending upon the error code this may be a debug or minor error. Requests use pthread_cond_timedwait to wait for resources to become available.
System Action: The attempt to obtain resources will fail and be retried.
Administrator Action: None.

PVRS0416 PVR cannot reserve a device

Source Files Generating Error Message: scsi_private.c.
Problem Description: No device was available for the request. The request will fail.
System Action: The request will be retried.
Administrator Action: The administrator should determine which SMC devices are down and perform problem determination to bring them back online.

PVRS0417 No device is available

Source Files Generating Error Message: scsi_private.c.
Problem Description: No command device was available for the request. The request will fail.
System Action: The request will fail.
Administrator Action: The administrator should determine which SMC devices are down and perform problem determination to bring them back online.

PVRS0418 Command path repaired

Source Files Generating Error Message: scsi_private.c.
Problem Description: A command device which was previously down was successfully reopened.
System Action: The repaired command device will be used.
Administrator Action: None.

PVRS0419 PVR cannot segregate by zone

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR cannot favor mounts in like-zoned cartridges and drives.
System Action: The request will continue, but mount performance may be degraded.
Administrator Action: Contact HPSS support.

PVRS0420 PVR cannot segregate by PVR Context

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR cannot favor mounts within the library local to the cartridge.
System Action: The request will continue, but mount performance may be severely degraded due to unnecessary use of passthrough.

Administrator Action: Contact HPSS support.

PVRS0422 PVR internal map cannot be initialized

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR cannot initialize / reinitialize its cached map of the library contents.
System Action: The request will fail; the map initialization will be retried.
Administrator Action: If the problem persists, contact HPSS support.

PVRS0423 PVR indicates that more drives are configured than available

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR has discovered that more drives are configured in HPSS than are available within the library.
System Action: The PVR will issue this log, but operations will continue as normal.
Administrator Action: If this is intended (and the unavailable drives have been locked) then no action is necessary. If this is unintended then the administrator should determine which drives are unavailable by using **device_scan** or an analogous tool, and perform problem determination at the library and connectivity layers until the devices appear.

PVRS0425 Library string configuration is invalid

Source Files Generating Error Message: scsi.c.
Problem Description: The PVR has determined that the library complex configuration is invalid.
System Action: The PVR will fail to initialize.
Administrator Action: Validate that each library serial number provided to the library is unique - that there are no duplicates.

PVRS0426 Could not get zone for cartridge

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR was unable to get the zone for a cartridge.
System Action: The request will continue. Mount performance may be somewhat degraded for this request.
Administrator Action: If the problem persists, contact HPSS support.

PVRS0427 Could not wake device wait list entry

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR was unable to wake a request waiting on a command device.
System Action: The condition is logged. The waiter will wake itself up after 30 seconds and continue.
Administrator Action: Contact HPSS support.

PVRS0428 Too many failures during retry

Source Files Generating Error Message: scsi.c, scsi_private.c.
Problem Description: The PVR retried an operation multiple times due to command device failures, but was never able to complete the request with any command device.
System Action: The current request will fail.
Administrator Action: Perform problem determination on impacted command devices. If the problem persists, contact HPSS support.

PVRS0430 PVR indicates that there are no empty storage slots; the logical library is full

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR has detected that there are no empty storage slots.
System Action: Certain activities such as dismounts or imports may begin to fail.
Administrator Action: Shelf tapes and verify configuration of PVR Cartridge Threshold is accurate and reporting properly.

PVRS0431 Could not initialize the Shuttle Control System (SCS)

Source Files Generating Error Message: scsi_private.c.
Problem Description: The SCS component has failed to initialize.
System Action: The PVR will fail to initialize.
Administrator Action: Gather SCS logs (/var/log/ibmscs.*) and contact HPSS support.

PVRS0432 The passthrough configuration is invalid - library must allow passthrough and have a direct connection to all configured libraries

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR has detected that either the configured libraries do not support passthrough or that not all configured libraries have a direct connection.
System Action: The PVR will fail to initialize.
Administrator Action: If passthrough is desired, determine if all libraries in the configuration support passthrough and that there exists a direct connection between each library. If passthrough is not desired, utilize only a single library serial in the SCSI PVR configuration.

PVRS0434 Unable to update the PVR port map

Source Files Generating Error Message: scsi_private.c.
Problem Description: The port map could not be updated.
System Action: This error, if it occurs on initialization, may cause initialization to fail. If cartridges are being imported, it may cause a cartridge import to fail. During passthrough it may appear while the ports are being polled - this will be retried, but may cause a timeout if it is persistent.
Administrator Action: If the problem persists, contact HPSS support.

PVRS0435 Error polling import slots for cartridge

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR was unable to poll for the passthrough cartridge.

System Action: This error will cause the passthrough move operation to fail. The cartridge will remain in the passthrough slot and the passthrough connection will become unusable.
Administrator Action: Contact HPSS support. The passthrough connection can be made usable by removing the cartridge, either manually or by restarting the PVR (which will remove the cartridge).

PVRS0436 Cartridge was not moved to the destination logical library

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR used the passthrough connection to move a cartridge, but it was not moved to the specified destination library.
System Action: The cartridge will be placed in the library in which it was found. The operation will fail and be retried later.
Administrator Action: If the problem persists, contact HPSS support.

PVRS0437 Imported cartridge found in a non-import element slot

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR used the passthrough connection to move a cartridge. It was found in the destination library, but not in an import-only element.
System Action: The request will continue.
Administrator Action: If the problem persists, contact HPSS support.

PVRS0438 Error discovering passthrough connections and geometry

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR failed to discover the passthrough connections using the SCS component.
System Action: PVR initialization will fail.
Administrator Action: Gather SCS logs (/var/log/ibmscs.*) and contact HPSS support.

PVRS0439 Error unlocking a used passthrough connection

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR failed to unlock a used passthrough connection.
System Action: PVR initialization will fail. In most cases the request will continue, but the error may result in the passthrough connection being left in a locked state. This willrender the passthrough connection unusable.
Administrator Action: Restart the PVR. If the problem persists, contact HPSS support.

PVRS0440 Error creating a passthrough connection

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR failed to create a passthrough connection.
System Action: The request will fail due to no drives. It will be retried at a later time.

Administrator Action: If the problem persists, gather SCS logs (/var/log/ibmscs.*) and contact HPSS support.

PVRS0441 Timed out while waiting for a passthrough operation to complete

Source Files Generating Error Message: scsi_private.c.
Problem Description: The passthrough operation did not complete prior to the timeout.
System Action: The request will fail. Depending upon the state of the shuttle car, the shuttle system may have been rendered temporarily unusable. The cartridge will remain in the shuttle car. The PVR will send a call home to IBM Support through the SCS component, if the call home feature is enabled at site.
Administrator Action: Contact HPSS and IBM TS3500 support.

PVRS0442 Unable to report error to passthrough software

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR failed to report a serious error to passthrough software for its call home functionality.
System Action: None.
Administrator Action: Contact HPSS and IBM TS3500 support. If the call home feature is enabled, be aware that no call home was made and that a service call may be necessary.

PVRS0444 Error obtaining remote storage slot for passthrough dismount

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR is attempting to dismount a cartridge, but the local library has no empty storage slots. It was either unable to find the mounted cartridge, or unable to reserve a storage slot in a remote library in order to execute the remote dismount.
System Action: No remote dismount is done. The dismount will be retried later.
Administrator Action: This may leave a tape mounted in a drive. If successive retries do not resolve the problem, export or shelf tapes in the full library in order to create empty slots to allow the tapes to be dismounted. Contact HPSS support.

PVRS0445 Previous element error was successfully retried

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR is reporting that the previously reported error getting element status was retried successfully.
System Action: The request continues.
Administrator Action: None.

PVRS0446 Could not select a drive by score

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR is reporting that it could not select a drive from the available drive list.

System Action: The request fails. It will be retried at a later time.
Administrator Action: If the problem persists, contact HPSS support.

PVRS0447 PVR cannot segregate by drive reservation

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR is was unable to take drive proximity (local vs. remote library) into account when selecting the drive.
System Action: The request continues. The mount may fail if the drive is full or reserved by another request.
Administrator Action: If the problem is persistent, contact HPSS support.

PVRS0448 Cursor manager initialization failed

Source Files Generating Error Message: pvr_all.c
Problem Description: The PVR is was unable to initialize the cursor manager library.
System Action: None. No interfaces use this interface any longer.
Administrator Action: None.

PVRS0449 Cursor manager insert failed

Source Files Generating Error Message: pvr_all.c
Problem Description: The PVR is was unable to cache an ongoing transaction for listing PVR cartridges.
System Action: None. No interfaces use this interface any longer.
Administrator Action: None.

PVRS0450 Cursor manager retrieval failed

Source Files Generating Error Message: pvr_all.c
Problem Description: The PVR was unable to retrieve a cached transaction for listing PVR cartridges.
System Action: None. No interfaces use this interface any longer.
Administrator Action: None.

PVRS0451 Library reports a new device; new device may be unusable until the PVR is restarted

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR has detected that a new drive was added while it was running.
System Action: None; informational only.
Administrator Action: The administrator may need to restart the PVR in order to begin using the new drive. In cases where an existing drive was removed and placed back in the library, the SCSI PVR may pick it up automatically and begin using it again.

PVRS0452 Failure issuing SCSI inquiry command

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR failed to issue a library inquiry command.
System Action: Depending upon the inquiry being issued, the SCSI PVR may fail to start or may start up with some drives being unusable.

Administrator Action: The administrator may need to restart the PVR. A SCSI status and sense string will appear with this message which can be used along with the library vendor's SCSI reference to assist in troubleshooting. If the issue persists contact HPSS support.

PVRS0453 Failure issuing SCSI unknown command

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR failed to issue a command from an atypical command type.
System Action: The request being issued will fail; the system will log a SCSI status and sense string for the failed command.
Administrator Action: The administrator may need to restart the PVR. If the problem persists, contact HPSS support with the SCSI status and sense string as well as the log message for support.

PVRS0454 Failure locating cache slot

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR is unable to locate a specified library cache location. This may be the result of physical changes to the library made while the SCSI PVR was running.
System Action: The dismount may fail because the home location cannot be determined. If this occurs after the mount then the PVR will continue to run in a degraded mode.
Administrator Action: Recycle the PVR. If the problem can be traced back to a change in the library then no further action is required. If the problem is persistent, contact HPSS support.

PVRS0455 Failure querying drive home location

Source Files Generating Error Message: scsi_private.c.
Problem Description: The PVR is unable to locate the home location for the cartridge. This may indicate a software or firmware issue. It can also be due to an intermittent connectivity issue with the library.
System Action: The dismount may fail because the home location cannot be determined. If this occurs after the mount then the PVR will continue to run in a degraded mode.
Administrator Action: Recycle the PVR. If the problem can be traced back to a change in the library then no further action is required. If the problem is persistent, contact HPSS support.

PVRS0456 Entering pvr_RetrieveInventory

Source Files Generating Error Message: pvr_api.c.

Problem Description: A trace message indicating the PVR is entering the specified function.
System Action: None.
Administrator Action: None, informational.

PVRS0457 **Exiting pvr_RetrieveInventory**

Source Files Generating Error Message: pvr_api.c.
Problem Description: A trace message indicating the PVR is exiting the specified function.
System Action: None.
Administrator Action: None, informational.

Chapter 17. RPC Error Messages (RPC Series)

RPC0001 **Error encoding/decoding RPC header**

Source Files Generating Error Message: hpss_RPCClnt.c or hpss_RPCSrvr.c
Problem Description: The program was unable to process an RPC message header.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0002 **Error creating encrypted checksum <error message>**

Source Files Generating Error Message: hpss_RPCUtil.c or hpss_RPCSrvr.c
Problem Description: The program was unable to create a header checksum.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0003 **Error encoding/decoding authentication args**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to process the authentication arguments.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0004 **Error verifying encrypted checksum <error message>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to process a checksum..
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0005 **Error accepting security token <error message>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to verify a security token.
System Action: Various, depending on circumstances.
Administrator Action: Determine if the token was from an allowed client and that the client is using the correct authentication settings.

RPC0006 **Error freeing old credential <error message>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: The program was unable to free an old credential.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0007 Error encoding/decoding service name

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to process the service name.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0008 Error finding requested interface

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to find the requested interface.
System Action: Various, depending on circumstances.
Administrator Action: Ensure that the client is trying to connect to an interface that is on the server.

RPC0009 Error dequeuing request

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to handle a request.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0010 Error decoding transfer identifier

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to process the identifier.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0011 Undetermined RPC runtime problem detected

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program had an undetermined error.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0012 Error invalid RPC type, type = <type>

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program received an invalid RPC.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0013 Error invalid RPC request, proc = <request>

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program received an invalid RPC.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0014 **Error encoding service name**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The program was unable to endcode the service name.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0015 **Error buffer overrun decoding verifier**

Source Files Generating Error Message: Not used
Problem Description:
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0016 **Error accepting request**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to accept a request.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0017 **Error spawning thread to renew context**

Source Files Generating Error Message: Not used
Problem Description:

System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0018 **Error setting keep-alive**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The program was unable to set the keep alive setting.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0019 **Error disabling Nagle**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The program was unable to set no-delay.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative..

RPC0020 **Error getting local socket address.**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to get the IP address for a local socket.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0021 **Error getting peer socket address.**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to get the IP address for a remote socket.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0022 **Error finding connection for fd <socket>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to connect to a socket.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0023 **Error setting socket buffer size**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The program was unable to set the socket buffer size.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0024 **Assertion failed, file <name> line <line number>**

Source Files Generating Error Message: Given in message
Problem Description: An assertion check fail.
System Action: The program exits.
Administrator Action: Contact your HPSS support representative.

RPC0025 **Error delaying processing**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to during a thread system Contact.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0026 **Error obtaining transmit buffer**

Source Files Generating Error Message: Various RPC files
Problem Description: The process failed to allocate a send buffer.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0027 **Invalid ping request**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process received an invalid ping request.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0028 Error verifying security context <error text>

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed do to the reason given in the error text.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0029 Error verifying RPC argument data

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not verify the arguments to an rpc call.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0030 Error unwrapping RPC argument data

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not process the RPC arguments.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0031 Error signing RPC argument data

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not process the RPC arguments.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0032 Error wrapping RPC argument data

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not process the RPC arguments.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0033 Error deleting security context <error text>

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process failed for the reason given in the error text.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0034 Error determining RPC buffer size

Source Files Generating Error Message: hpss_RPCSrvr.c, hpss_RPCUtils.c, or hpss_RPCClnt.c
Problem Description: The process failed to determine the needed buffer size.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0035 **Error encoding/decoding RPC parameters**

Source Files Generating Error Message: hpss_RPCSrvr.c, hpss_RPCUtils.c, or hpss_RPCClnt.c
Problem Description: The process failed to handle the RPC arguments
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0036 **Error determining wrap overhead <error text>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed for the reason given in the error text.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0037 **Error wrap overhead to great.**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed because the incoming reply was to large.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0038 **Error reserving connection for <type> use**

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process failed to reserve a connection.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0039 **Error reading RPC reply**

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process failed to read the incoming reply.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0040 **Error locking mutex, file <name> line <line number>**

Source Files Generating Error Message: Given in error message
Problem Description: The process failed to lock a mutex.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0041 **Error unlocking mutex, file <name> line <line number>**

Source Files Generating Error Message: Given in error message
Problem Description: The process failed to unlock a mutex.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0042 Error invalid RPC procedure

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process tried to process an invalid RPC.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0043 Invalid port range specifier <start value>

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process was given an invalid port.
System Action: Various, depending on circumstances.
Administrator Action: Verify the HPSS_RPC_PORT_RANGE enviroment variable is set correctly.

RPC0044 Error enqueuing RPC work request

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not put a work request on the queue to be processed.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0045 Error creating socket

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not create a socket.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0046 Error binding socket

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not bind to the socket.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0047 Error creating credentials

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: The process could not retrieve it’s login credentials.
System Action: Various, depending on circumstances.
Administrator Action: Verify the process is asking for the correct credentials.

RPC0048 Error displaying service name

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process could not format the service name.
System Action: Various, depending on circumstances.

Administrator Action: Contact your HPSS support representative.

RPC0049 **Error sending RPC reply to <peer host>:<port>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to send a message to the list host and port.
System Action: Various, depending on circumstances.
Administrator Action: Verify that the peer host can still be contacted and that the port is still valid.

RPC0050 **Error comparing nil UUID**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process received an empty UUID when it was not expecting one.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0051 **Error comparing UUID**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process was unable to process a UUID .
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0052 **Error creating UUID**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process was unable to create a UUID .
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0053 **Timeout on select()**

Source Files Generating Error Message: hpss_RPCXmitBuf.c
Problem Description: A select statement took longer than expected.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0054 **Error on select()**

Source Files Generating Error Message: hpss_RPCXmitBuf.c
Problem Description: A select statement failed for a reason other than a timeout.
System Action: Various, depending on circumstances.
Administrator Action: Check the returned errno and determine if there is a problem with the network.

RPC0055 **Error on write()**

Source Files Generating Error Message: hpss_RPCXmitBuf.c

Problem Description: A write statement failed for a reason other than a timeout.
System Action: Various, depending on circumstances.
Administrator Action: Check the returned errno and determine if there is a problem with the network.

RPC0056 Error on read()

Source Files Generating Error Message: hpss_RPCXmitBuf.c
Problem Description: A read statement failed for a reason other than a timeout.
System Action: Various, depending on circumstances.
Administrator Action: Check the returned errno and determine if there is a problem with the network.

RPC0057 Encountered an invalid packet length <length>

Source Files Generating Error Message: hpss_RPCXmitBuf.c
Problem Description: The process received a negitive or zero value for an incoming packet.
System Action: Various, depending on circumstances.
Administrator Action: Contact your HPSS support representative.

RPC0058 Error verifying RPC header

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process encountered a security violation while processing an incoming packet.
System Action: The process closes the connection.
Administrator Action: Verify that a valid client was trying to connect to the server.

RPC0059 Invalid RPC response status

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process encountered a security violation while processing an incoming packet.
System Action: The process closes the connection.
Administrator Action: Verify that a valid client was trying to connect to the server.

RPC0060 Error creating thread

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process encountered a security violation while processing an incoming packet.
System Action: The process closes the connection.
Administrator Action: Verify that a valid client was trying to connect to the server.

RPC0061 Error signing RPC header

Source Files Generating Error Message: hpss_RPCSrvr.c or hpss_RPCClnt.c
Problem Description: The process could not create a MIC for an outgoing packet.
System Action: The process closes the connection.

Administrator Action: Contact your HPSS support representative.

RPC0062 **Error no owner found for reply <peer host>:<port number>**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process received an rpc reply that it did not expect.
System Action: The process closes the connection.
Administrator Action: Contact your HPSS support representative.

RPC0063 **Error allocating memory**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process failed to allocate needed memory.
System Action: The process exits.
Administrator Action: Check to make sure there is enough memory available on the system.

RPC0064 **Error waiting on condition variable**

Source Files Generating Error Message: hpss_RPCClnt.c or hpss_RPCSrvr.c
Problem Description: The process failed to wait on a condition variable
System Action: The process exits.
Administrator Action: Contact your HPSS support representative.

RPC0065 **Error signaling condition variable**

Source Files Generating Error Message: hpss_RPCClnt.c or hpss_RPCSrvr.c
Problem Description: The process failed to signal a condition variable
System Action: The process exits.
Administrator Action: Contact your HPSS support representative.

RPC0066 **Error retrieving port for <Program number>:<Version> (tout=<timeout>), from host <peer>**

Source Files Generating Error Message: hpss_RPCClnt.c or hpss_RPCSrvr.c
Problem Description: The process failed to get the port based on the RPC information
System Action: The process exits.
Administrator Action: Verify that the RPC information is valid and that the peer server is running.

RPC0067 **Error unregistering local port**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The process failed to unregister from an RPC port
System Action: Varies based on the reason
Administrator Action: Contact you HPSS support representative.

RPC0068 **Error registering local port**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The process failed register a RPC port
System Action: The process exits.
Administrator Action: Contact your HPSS support representative.

RPC0069 Error reserving process credential

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: The process failed reserver the security credentials.
System Action: The process exits.
Administrator Action: Contact your HPSS support representative.

RPC0070 Error purging process credential <error text>

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: The process failed to destroy a security credential
System Action: The process exits.
Administrator Action: Evaluate the error based on the error text returned.

RPC0071 Error creating thread attributes

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to create a thread.
System Action: The process exits.
Administrator Action: Contact your HPSS support representative.

RPC0072 Error encrypting data <error text>

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The process failed to encrypt an outgoing packet
System Action: The process exits.
Administrator Action: Evaluate the error based on the error text returned

RPC0073 Error decrypting data <error text>

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The process failed to decrypt an incoming packet
System Action: The process exits.
Administrator Action: Evaluate the error based on the error text returned

RPC0074 Error getting server connection <local host>:<port> -> <remote host>:<port>

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The connection to a remote server failed
System Action: The process exits.
Administrator Action: Verify that the connection information is correct.

RPC0075 Error getting service name <local host>:<port> -> <remote host>:<port>

Source Files Generating Error Message: hpss_RPCClnt.c

Problem Description: The connection to a remote server failed
System Action: The process exits.
Administrator Action: Verify that the connection information is correct.

RPC0076 Error authenticating client, <local host>:<port> -> <remote host>:<port>

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The connection to a remote server failed.
System Action: The process exits.
Administrator Action: Verify that the connection information is correct.

RPC0077 Error getting cached reply from <remote host>.<port>

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process was unable to retrieve a reply from a remote host.
System Action: The process continues.
Administrator Action: Verify that the remote system is not experiencing problems.

RPC0078 Error getting a mechanism specific service name <mech name>.

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process was unable to retrive the mechanism name.
System Action: The process exits.
Administrator Action: Verify the process is configured correctly

RPC0079 Error exporting the service name <name>

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process was unable to convert the service name for exporting.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0080 Error converting interface UUID to string

Source Files Generating Error Message: hpss_RPCClnt.c and hpss_RPCSrvr.c
Problem Description: The process was unable to convert the UUID for exporting.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0081 Can’t validate RPC execution status

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process was unable to validate that an rpc request executed.
System Action: Varies.
Administrator Action: Contact your HPSS support representative.

RPC0082 Error setting thread attributes detach state

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The system call to set the pthread detach state failed.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0083 **Error trying to reconnect.**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to reconnect to a remote server.
System Action: Varies.
Administrator Action: Verify the remote process is executing.

RPC0084 **Error trying to encode cached reply for <server>.<port>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to send a reply to a remote server.
System Action: Normal processing continues.
Administrator Action: Contact your HPSS support representative.

RPC0085 **Error sending RPC request <server>.<port>**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: The process failed to send an RPC to the server.
System Action: Varies.
Administrator Action: Verify the process is configured correctly and the server is executing.

RPC0086 **Error reserving security context**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: A thread in the process failed to gain exclusive access of the security context.
System Action: Varies.
Administrator Action: Contact your HPSS support representative.

RPC0087 **Error reserving <type> conn. for <program number>, wait=<time>, state=<connection state>, tids=<holder thread id>:<transfer thread id> uc=<Use count>**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: A thread in the process failed to reserve the connection to the server.
System Action: Varies.
Administrator Action: Verify the process is configured correctly and the server is executing.

RPC0088 **Error trying to setup to unregister port on exit**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to release the listen socket while exiting.

System Action: The process finishes exiting.
Administrator Action: Evaluate the error based on other error messages.

RPC0089 Error setting thread stack size attribute

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process failed to thread attributes .
System Action: The process exits due to a system error.
Administrator Action: Contact your HPSS support representative.

RPC0090 Error setting linger

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The process failed to set the linger socket option.
System Action: The process exits with a system error.
Administrator Action: Contact your HPSS support representative.

RPC0091 Error setting non-blocking I/O for socket

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The process failed to set the non-blocking socket option.
System Action: The process exits with a system error.
Administrator Action: Contact your HPSS support representative.

RPC0093 Error getting address info

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The system call to look up a network address failed.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0094 Error getting name info

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The system call to look up a network name failed.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0095 Error setting port

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The call to set a port for a network end point failed.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0096 Connection table full

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process has exceeded the allowed number of open connections.

System Action: The process continues executing.
Administrator Action: Contact your HPSS support representative.

RPC0097 **Request queue full, interface <UUID>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process has exceeded the allowed number incoming rpc requests.
System Action: The process continues executing.
Administrator Action: Increase the number of RPC threads and the queue size for the interface.

RPC0098 **No more ports in the specified range <start port - end port)**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: The process was unable to open a port in the specified range.
System Action: The process exits.
Administrator Action: Increase the port range or free some of the ports in that range.

RPC0099 **Request queue at 90 percent full (<current>/<maximum>), <'interface'|'rt-interface'>=<name>:<uuid>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: This indicates that the request queue for the specified interface has exceed 90% of the configured capacity.
System Action: The process continues execution.
Administrator Action: Determine the number of clients using the system and work with the HPSS support representative to determine new configuration settings to handle the expected load.

RPC0100 **All (<#>) request threads busy, <'interface'|'rt-interface'=<name>:<uuid>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: This indicates that all threads for the specified interface are currently busy processing requests.
System Action: The process continues execution.
Administrator Action: Determine the number of clients using the system and work with the HPSS support representative to determine new configuration settings to handle the expected load.

RPC0101 **Request w/o client, in progress for <#> minutes**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: This indicates that client has drop a connection but a corresponding request(s) is still in progress.
System Action: The process continues execution.
Administrator Action: Determine if you have a problem with client software that is causing this behavior.

RPC0102 Invalid context establishment request

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: A security context establishment request encountered an existing security context.
System Action: The client connection will fail and the process continues execution
Administrator Action: Verify that all client software is up to date.

RPC0103 Invalid context establishment continuation request

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: A security context establishment continuation request encounters an existing security context.
System Action: The client connection will fail and the process continues execution
Administrator Action: Verify that all client software is up to date.

RPC0104 Invalid rpc protocol (<protocol>) used

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: An invalid network address family was encountered.
System Action: Varies.
Administrator Action: Verify that the HPSS_NET_FAMILY configuration setting is valid.

RPC0105 Invalid address passed to function

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: An internal software problem results in an invalid address pointer.
System Action: The connection will fail.
Administrator Action: Contact the HPSS support representative.

RPC0106 Error returned from getnetconfigent(). (netid <id>)

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The system call to access the system network configuration database failed.
System Action: Varies.
Administrator Action: Determine if there is a problem with the system network configuration database.

RPC0107 Error returned from rpcb_getaddr(). <error specific message>

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The system call to obtain the network address for a remote service failed.
System Action: Client connection will fail.
Administrator Action: Determine that the rpcbind system is functionally properly.

RPC0108 **Error returned from rpcb_unset(). <error specific message>**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The system call to reset the network address for a remote service failed.
System Action: Varies.
Administrator Action: Determine that the rpcbind system is functionally properly.

RPC0109 **Error returned from rpcb_set(). <error specific message>**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The system call to set the network address for a remote service failed.
System Action: Varies.
Administrator Action: Determine that the rpcbind system is functionally properly.

RPC0110 **Error returned from hpss_net_getport(). <error specific message>**

Source Files Generating Error Message: hpss_RPCUtil.c
Problem Description: The call to get a port for a network end point failed.
System Action: Varies.
Administrator Action: Verify the process is configured correctly.

RPC0111 **Entering function**

Source Files Generating Error Message: hpss_RPCSrvr.c and hpss_RPCClnt.c
Problem Description: Trace message indicating the process entered a function.
System Action: The process continues executing.
Administrator Action: None

RPC0112 **Connection on Fd <socket> has dropped, host = <name>, port=<port number>**

Source Files Generating Error Message: hpss_RPCSrvr.c and hpss_RPCClnt.c
Problem Description: Trace message indicating the process lost a connection.
System Action: The process continues executing.
Administrator Action: None

RPC0113 **Invalid security service specified in creds**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message indicating the process received an invalid credential.
System Action: The process continues executing.
Administrator Action: Verify the process is configured correctly.

RPC0114 **Unsupported security service requested.**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message indicating the process requested an invalid security mechanism.

System Action: The process continues executing.
Administrator Action: Verify the process is configured correctly.

RPC0115 **Continue GAS mutual authentication**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0116 **Connection shutdown waiting on reservation <number>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0117 **New connection <server>.<port> -> <server>.<port>**

Source Files Generating Error Message: hpss_RPCClnt.c and hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0118 **Connection already shutdown <server>.<port> -> <server>.<port>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0119 **Exiting function**

Source Files Generating Error Message: hpss_RPCClnt.c and hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0120 **Ping reply received**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0121 **RPC work thread <id> got request <Transfer id> <transfer thread id> <transfer request id>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message

System Action: The process continues executing.
Administrator Action: None

RPC0122 **Credentials refreshed**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0123 **Creating initial credentials, mech =<security mechanism>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0124 **Client successfully authenticated, conn id = <id>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0125 **Security token returned maj=<major number> min=<minor number>, length=<token size>**

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0126 **Interface registered, id=<id>, vers=<version>,prog=<program number>, host=<host name>, port=<port>, fd = <listen socket>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0127 **Dispatching request if=<interface>,proc=<RPC proc>,vers=<interface verision>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0128 **Accepting context vers=<version>, svc=<protection level>,flags=<connection flags>, tm = <time>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0129 **Reconnect request from <server>.<port>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0130 **Connection has gone stale, client <server>.<port>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0131 **No response server <host>.<port>, closing connection**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0132 **Connection closed sending reply, host=<name>, port=<port>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0133 **Cleaning up <host>:<port>, fd=<socket>, state=<state>, use=<use count>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0134 **Timeout during exponential backoff delay**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0135 **Failure initializing socket**

Source Files Generating Error Message: hpss_RPCClnt.c

Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0136 Failure connecting socket

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0137 Failure getting local socket address

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0138 Failure getting remote socket address

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0139 Failure transmitting request

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0140 Reconnecting <host>:<port>, fd=<file descriptor>, state=<state>, use=<use count>

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0141 Delay retry for full thread pool queue <host>:<port>

Source Files Generating Error Message: hpss_RPCClnt.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0142 Unsupported security mechanism requested

Source Files Generating Error Message: hpss_RPCSrvr.c

Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0143 **Open callback complete, host=<host>,port=<port>,fd=<file descriptor>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0144 **Runtime listening… host=<host>,port=<port>,fd=<file descriptor>**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0145 **Just added cred for <user>, lifetime secs=<time>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0146 **New cred expiration time, old <time>, new <time>**

Source Files Generating Error Message: hpss_RPCSetCred.c
Problem Description: Trace message
System Action: The process continues executing.
Administrator Action: None

RPC0147 **Context establishment already in progress**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: A context establishment is already in progress.
System Action: Client connection will fail.
Administrator Action: Verify that all client software is up to date.

RPC0148 **Context establishment incomplete**

Source Files Generating Error Message: hpss_RPCSrvr.c
Problem Description: A connection closed before context establishment completes.
System Action: The process continues execution.
Administrator Action: None.

Chapter 18. Real Time Monitoring Error Messages (RTM Series)

RTM0001 **REQUEST: Entering with ListName %d, Flags %#x, RReqId %#x %#x ObjectName %s, PVName %s**

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: This is an informational message upon entering the rtm_GetRequestEntries server interface used for retrieving RTM information within the given server.
System Action: Log message.
Administrator Action: None.

RTM0002 **REQUEST: Exiting**

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: This is an informational message upon exiting the rtm_GetRequestEntries server interface used for retrieving RTM information within the given server.
System Action: Log message.
Administrator Action: None.

RTM0003 **System call %s failed**

Source Files Generating Error Message: rtm_Log.c
Problem Description: This is a log message that reports a system error encountered in the rtm library routines or the RTM request interface routine.
System Action: Log message.
Administrator Action: Many and varied.

RTM0004 **Connection handle pointer is NULL**

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: An error reporting that the connection handle passed in the rtm_GetRequestEntries routine is NULL.
System Action: Log message and return error HPSS_EBADCONN to calling utility.
Administrator Action: A utility bug or system connect problem.

RTM0005 **Invalid connect handle**

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: The rtm_GetRequestEntries routine detects an invalid connection handle returned from hpss_RPCGetConnectionContext() call.
System Action: Log message and return error HPSS_EBADCONN to calling utility.
Administrator Action: A utility bug or a system connect problem.

RTM0006 Flag %d invalid

Source Files Generating Error Message: rtm_GetRequestEntries.c, rtm_ReqList.c
Problem Description: An invalid input parameter Flag was passed to the rtm_GetRequestEntries RTM interface routine; or an invalid Checkflag was sent to the internal library routine rtm_verify_and_lock.
System Action: Log message and return error HPSS_EINVAL to calling utility; or log and return HPSS_ESYSTEM to calling library routine.
Administrator Action: Probably a utility bug.

RTM0007 No bitfile was provided

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: The utility requested information based on bitfile id, but the supplied bitfile id is NULL.
System Action: Log an error and return EINVAL to calling utility.
Administrator Action: Fix the utility or give correct inputs to utility.

RTM0008 No pv name was provided

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: The utility requested information based on Physical Volume Name, but the supplied pv name is NULL.
System Action: Log an error and return EINVAL to calling utility.
Administrator Action: Fix the utility or give correct inputs to utility.

RTM0009 Invalid object name %d

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: The utility requested information based on some object, but the supplied object name is invalid.
System Action: Log an error and return EINVAL to calling utility.
Administrator Action: Fix the utility or give correct inputs to utility.

RTM0010 List Hdr not yet initialized

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: The RTM request interface was called, but found that the request list header had never been initialized in the server.
System Action: Log an error and return ENOTREADY to calling utility.
Administrator Action: Probably a server bug unless the utility can call the interface before the server is completely up.

RTM0011 Request List %s not yet initialized

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: The RTM request interface was called, but found that the requested request list input parameter was invalid.
System Action: Log an error and return EINVAL to calling utility.

Administrator Action: Probably a utility bug or incorrect parameters were fed to the utility.

RTM0012 ReqList %d already in use

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: The RTM library routine rtm_ReqListInit was called to initialize a request list, but the request list is already in use.
System Action: Log an error and return EINVAL to calling utility.
Administrator Action: Probably a server bug.

RTM0013 Rtm_verify_and_lock() failed

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If this routine returns an error, the calling library routines log this error.
System Action: Log an error and return to the calling server the error returned by rtm_verify_and_lock.
Administrator Action: Probably a server bug.

RTM0014 Entry already deleted

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: The RTM library routine rtm_ReqListDeleteEntry was called with a request entry that is already in a delayed delete.
System Action: Log an error and return EINVAL to the calling server.
Administrator Action: Probably a server bug.

RTM0015 ListPtr is NULL

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If the ListPtr parameter to rtm_verify_and_lock is Null, this message is logged.
System Action: Log an error and return EINVAL to the calling routine.
Administrator Action: Probably an RTM library routine bug.

RTM0016 No such ListPtr (%#x) found

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If the ListPtr parameter to rtm_verify_and_lock is not found, this message is logged.
System Action: Log an error and return EINVAL to the calling routine.
Administrator Action: Probably an RTM library routine bug.

RTM0017 Entryptr failed sanity check

Source Files Generating Error Message: rtm_ReqList.c

Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If the request entry pointer parameter to rtm_verify_and_lock doesn't pass the sanity check, this message is logged.
System Action: Log an error and return EINVAL to the calling routine.
Administrator Action: Probably an RTM library routine bug or a server bug in calling an RTM library routine.

RTM0018 EntryPtr not found

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If the request entry pointer parameter to rtm_verify_and_lock doesn't show up in the request list, this message is logged.
System Action: Log an error and return EINVAL to the calling routine.
Administrator Action: Probably a server bug.

RTM0019 WaitEntryptr failed sanity check

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If the waitlist entry pointer parameter to rtm_verify_and_lock doesn't pass the sanity check, this message is logged.
System Action: Log an error and return EINVAL to the calling routine.
Administrator Action: Probably a server bug.

RTM0020 WaitEntryPtr not found

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: Many RTM library routines call rtm_verify_and_lock to lock the request list for them. If the waitlist entry pointer parameter to rtm_verify_and_lock doesn't show up in the request entry waitlist, this message is logged.
System Action: Log an error and return EINVAL to the calling routine.
Administrator Action: Probably a server bug.

RTM0021 RTM debug = %s

Source Files Generating Error Message: various
Problem Description: Designed for developer messages for detailed software problem diagnosis.
System Action: None.
Administrator Action: None.

RTM0022 RTM tracing: %s

Source Files Generating Error Message: various
Problem Description: Designed for developer messages for detailed software problem diagnosis..
System Action: None.

Administrator Action: None.

RTM0023 Flag %d invalid - %s

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: This error is logged when there is a problem associated with a flag parameter that should never happen.
System Action: Log the error and return ESYSTEM.
Administrator Action: Contact the HPSS support representative.

RTM0024 Pointer %s has NULL value

Source Files Generating Error Message: rtm_GetRequestEntries.c, rtm_ReqList.c
Problem Description: This error is logged if an internal variable ptr is NULL. This should never happen.
System Action: Log the error and return ESYSTEM.
Administrator Action: Contact the HPSS support representative.

RTM0025 Request Entry not found

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: This error shouldn't happen, but the code checks for the existence of a request entry and if not found, returns this error.
System Action: Log the error and return ESYSTEM.
Administrator Action: Contact the HPSS support representative.

RTM0026 Count Underflow

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: This error shouldn't happen, but the code checks for underflow in a couple of counters.
System Action: Log the error and return ESYSTEM.
Administrator Action: This is a bug in rtm_ReqList.c.

RTM0027 Pthread_create() failed

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: This error is logged when the pthread_create call fails.
System Action: Log the error.
Administrator Action: You probably have system problems.

RTM0028 hpss_RPCMalloc failed

Source Files Generating Error Message: rtm_GetRequestEntries.c
Problem Description: This error is logged when the hpss_RPCMalloc call fails.
System Action: Log the error and return HPSS_ENOMEM.
Administrator Action: You probably have system problems.

RTM0029 Open of master catalog failed

Source Files Generating Error Message: rtm_ReqList.c
Problem Description: This error is logged when the catopen call fails.
System Action: Log the error.
Administrator Action: You probably have directory or environment problems.

RTM1000 Invalid value for arg: %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This error is logged when a routine in rtm_clientlib.c detects that it is being called with an invalid argument. The name of the argument is logged as part of the message.
System Action: Log the error and return EINVAL.
Administrator Action: This is a bug in rtm_clientlib.c.

RTM1001 Unable to allocate memory for %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: The system is unable to allocate the requested memory. The name of the variable that was to be bound to the memory is printed as part of the error message.
System Action: Log the error and return ENOMEM.
Administrator Action: This probably indicates a wider system problem. The RTM data should not consume that much data. If this is the result of running the RTMU utility, you could try re-linking the utility to use more AIX memory segments.

RTM1002 Invalid hash index: %d

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: The RTM client library maintains caches for UID to Username and Bitfile ID to File Pathname lookups. The caches are implemented as hash tables. This error indicates that the hashing function acting on a key produced an invalid hash index (outside the range of the hash table).
System Action: Log the error and return EINVAL.
Administrator Action: This is a bug in rtm_clientlib.c.

RTM1003 Invalid delete count: %d of %d

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: The rtm_PurgeCache function deleted more items than it thought were in the cache. This should never happen and represents a bug in rtm_clientlib.c.
System Action: Log the error and correct the item count.
Administrator Action: This is a (non-fatal) bug in rtm_clientlib.c.

RTM1004 %s failed with type %d, error %d, mmlib msg: %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This is an error message generated by rtm_AddServersByType when a call to mm_SelectServersByType returned an error.

The type of the server and error code is printed along with an error string returned by MMLIB.
System Action: Log the error, return EIO.
Administrator Action: This may represent an error in the configuration database.

RTM1005 mm_ReadRecords returned %d items, expected %d

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This is an error detected in rtm_AddServersByType in which the call to mm_ReadRecords did not return an error message, but returned either zero or more than one record when we asked for one at a time.
System Action: Log the error, return EIO.
Administrator Action: This is likely a bug in rtm_clientlib.c.

RTM1006 %s failed with error %d

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This is a generic error message produced when a function within rtm_clientlib.c calls another function that returns an error. The called function name and return value are given in the error message. The cascade of such error messages can effectively generate a backtrace of the call stack that can aid in debugging the problem.
System Action: Log the error.
Administrator Action: This likely represents a bug in rtm_clientlib.c

RTM1007 %s failed with error code %d and message: %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: A function call to create or free an mmlib transaction handle failed. The routine name, the error code and an mmlib error string are included in this message.
System Action: Log the error and return EIO.
Administrator Action: This error would indicate a wider system-related or database related problem.

RTM1008 value of %s for %s should be %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This error is given when a basic sanity check fails, for example a pointer that should be NULL and is not. The name of the variable, its current value and its expected value are given.
System Action: Log the error and return EINVAL.
Administrator Action: This is a bug in rtm_clientlib.c

RTM1009 Failed to connect to Server %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This warning message is generated when rtm_AddServerByType fails to connect to the specified server. This can happen if

the server is configured and marked as executable but is not running. The warning message is logged and the routine continues without including this server in the list of rtm servers to query.
System Action: Log the error.
Administrator Action: If the server is not running and should not run, mark it as not executable.

RTM1010 Failed to get RTM records from server %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: A call to rtm_GetServerRTMEntries failed. No RTM records were returned. This is a warning message, the calling routine continues, but without any information from this server.
System Action: Log the error and continue processing.
Administrator Action: If this continues, it either indicates a wider problem on the system or a very busy server.

RTM1011 Invalid Server type: %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: Only Core, Mover and Gatekeeper servers respond to RTM requests. This error message is generated if a server of a type different from these is being added to the RTM query list.
System Action: Log the error and return EINVAL.
Administrator Action: This is a bug in rtm_clientlib.c.

RTM1012 %s returned no data for %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: A call to mmlib to lookup configuration server by descriptive name or UUID failed to find a matching server entry in the configuration database.
System Action: Log the error and return EINVAL.
Administrator Action: This is likely a bug in the rtm_clientlib client (RTMU or SSM).

RTM1013 Database failure when calling %s, mmlib msg: %s

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This error message is generated when a call to an mmlib function to fetch database entries (mm_ReadServer and mm_ReadRecords) returns an error. The text of the mmlib error is included.
System Action: Log the error and return EIO.
Administrator Action: This may indicate a wider system or database problem.

RTM1014 Server %s already in list

Source Files Generating Error Message: rtm_clientlib.c

Problem Description: This is a warning message generated when building a list of servers to query for RTM records. The warning indicates that the server is already in the list.
System Action: Log the error.
Administrator Action: None.

RTM1015 rtm_GetRequestEntries failed to server %s after %d attempts

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: A server being queried for RTM records cannot be contacted. This may happen if all server worker threads are busy processing other requests. rtm_clientlib will retry contacting the server several times and this warning message is only generated if all attempts fail.
System Action: Log the error and return EAGAIN.
Administrator Action: If this persists, consider increasing the size of the worker thread pool of the server.

RTM1016 rtm_GetRequestEntries to server %s returned null pointer

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: A call to rtm_GetRequestEntries returned a null pointer. This is not supposed to happen and represents an error in the RTM implementation of the called server.
System Action: Log the error and return EIO.
Administrator Action: This is a bug in the server’sRTM implementation.

RTM1017 num_server_types (%d) >= RTM_SERVER_MAXVALUE

Source Files Generating Error Message: rtm_clientlib.c
Problem Description: This is an error message generated by a sanity check in rtm_AddServersByType.
System Action: Log the error.
Administrator Action: This is a bug in rtm_clientlib.c.

Chapter 19. SSM System Manager Error Messages (SSMS Series)

SSMS0001 **Access was denied for the specified operation <operation type>**

Message Identity: SSM_SM_MSG_ACCESS
Source Files Generating Error Message: config/ssm_sm_cf_log.c maps the SSM_EACCESS code to this generic message. See the log file for similar messages.
Problem Description: The client does not have permission to perform the specified operation or the structure does not allow the operation to be performed on it.
System Action: The request will fail.
Administrator Action: Check the ACLs on the System Manager's Security object and make certain they provide the proper access for the client attempting the operation.

SSMS0002 **Permission to access a required file was denied**

Message Identity: SSM_SM_MSG_ACCESS_DENIED
Source Files Generating Error Message: hpssadm/StructHandler.java, mobjects/HPSSStruct.java, misc/ssm_sm_enter_api.c, config/ssm_sm_ConfigUpdate.c, sanity/ssm_sm_sanity_cf.c, sanity/ssm_sm_sanity_id.c

SSMS0004 **Alarm file unspecified or inaccessible; alarms will be buffered in memory**

Message Identity: SSM_SM_MSG_ALARM_OPEN_FAIL
Source Files Generating Error Message: notify/ssm_sm_alarms.c
Problem Description: The alarm buffer file was not found or could not be opened.
System Action: An in-memory buffer will be created to hold the alarms.
Administrator Action: If an alarm buffer file is desired, verify that the HPSS_SSM_ALARMS environment variable contains the full path to the alarm buffer file; otherwise, no action is required. An alarm buffer file is not required.

SSMS0005 **That configuration already exists; Update or Delete instead of Add**

Message Identity: SSM_SM_MSG_ALREADY_IN_CF
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c
Problem Description: An entry with the same uniquely identifying field(s), such as the id field, already exists in metadata.
System Action: None
Administrator Action: Verify that the configuration's identifying field(s) does not already exist. If the configuration identity is correct, select the Update or Delete button to modify the existing configuration.

SSMS0006 **More than one match was found**

Message Identity: SSM_SM_MSG_AMBIGUOUS

Source Files Generating Error Message: common/HPSSParsableObject.java
Problem Description: The user probably used an abbreviation for a keyword. The value entered is not unique and a unique entry is required in order to process the request.
System Action: None.
Administrator Action: Enter the non-abbreviated form of the keyword.

SSMS0007 Creation of server authorization vector failed

Message Identity: SSM_SM_MSG_AUTHV_CREATE_FAIL
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c
Problem Description: Creation of the authorization vector for a new server or loading the vector into the server authorization table failed which could be caused by a failure to get the local realm information, memory allocation, or an inability to obtain the server's uuid from the given name.
System Action: The request will fail.
Administrator Action: Verify that DB2 is running, the server's name is correct, the local realm is defined and that adequate resources are available to allocate memory.

SSMS0008 Deletion of server authorization vector failed

Message Identity: SSM_SM_MSG_AUTHV_DELETE_FAIL
Source Files Generating Error Message: config/ssm_sm_ConfigDelete.c
Problem Description: Deletion of the authorization vector for a server failed.
System Action: The request will fail.
Administrator Action: Verify that DB2 is running and adequate resources are available to allocate memory.

SSMS0009 Error building drive list

Message Identity: SSM_SM_MSG_BAD_DRIVE_LIST
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c
Problem Description: The System Manager encountered an error while building the list of devices and drives.
System Action: The drive list and the particular entry which generated the problem will be marked with an appropriate flag.
Administrator Action: Examine the log for related messages offering further details about the problem. Open the Drive List window and examine each entry for problems.

SSMS0010 Bad list type; expecting Tape Mount or Checkin. Clear list request failed

Message Identity: SSM_SM_MSG_BAD_LISTTYPE
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: An unexpected list type was encountered; expecting a list type of Tape Mount or Tape Checkin.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0011 **Bad log message: rectype <log record type>, msgtype <message type>, severity <severity level>**

Message Identity: SSM_SM_MSG_BAD_LOGMSG
Source Files Generating Error Message: notify/ssm_sm_alarms.c
Problem Description: An error in the log message was detected. The record type, message type or severity was not recognized.
System Action: A local alarm message is logged.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0012 **Mount request of type <mount type> was not recognized**

Message Identity: SSM_SM_MSG_BAD_MOUNT_REQUEST
Source Files Generating Error Message: notify/ssm_sm_notify.c
Problem Description: An unexpected mount request type was received; expecting a *mount requested* or *mount complete* request.
System Action: None.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0013 **ObjectID is null or is the wrong type**

Message Identity: SSM_SM_MSG_BAD_REG
Source Files Generating Error Message: reg/ssm_sm_reg_update.c
Problem Description: The object id is not valid or the object type does not match the type that was expected.
System Action: None.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0014 **Tape Check-In request of type <request type> was not recognized**

Message Identity: SSM_SM_MSG_BAD_TAPE_CHECKIN_REQ
Source Files Generating Error Message: notify/ssm_sm_notify.c
Problem Description: An unexpected tape checkin request type was received; expecting a *checkin requested* or *checkin complete* request.
System Action: None
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0016 **Delete log policy request failed**

Message Identity: SSM_SM_MSG_CANT_DEL_LOG_POL
Source Files Generating Error Message: config/ssm_sm_ConfigDelete.c, ssmuser/ServerConfigDataManager.java
Problem Description: The request to delete the log policy failed because it is the default log policy.
System Action: None.
Administrator Action: Change the default log policy to another policy and try again.

SSMS0017 **SSM System Manager was unable to locate a PVR controlling that cartridge**

Message Identity: SSM_SM_MSG_CANT_FIND_PVR

Source Files Generating Error Message: hpssgui/CartridgeInfoButtonPanel.java, attr/ssm_sm_AttrGet.c, attr/ssm_sm_AttrReg,c, attr/ssm_sm_AttrSet.c
Problem Description: SSM System Manager was unable to find a PVR server controlling the specified cartridge.
System Action: None
Administrator Action: Verify that the PVL is running. Verify the cartridge label was entered correctly.

SSMS0018 Can not find the PVL

Message Identity: SSM_SM_MSG_CANT_FIND_SINGLE_PVL
Source Files Generating Error Message: misc/ssm_sm_build_object_id.c
Problem Description: An attempt to find a PVL or to find only one PVL failed.
System Action: None
Administrator Action: Verify that one and only one PVL is configured.

SSMS0019 Unable to register SSM System Manager services

Message Identity: SSM_SM_MSG_CANT_REGISTER
Source Files Generating Error Message: adm/ssm_sm_adm_register_sm.c
Problem Description: An attempt by the SSM System Manager to initialize RPC connections, get a server interface or register the RPC services failed.
System Action: None
Administrator Action: Verify that the security mechanism is supported. Verify that there is enough memory to allocate an interface entry.

SSMS0020 Import of cartridge '<cartridge name>' complete

Message Identity: SSM_SM_MSG_CART_IMPORT_DONE
Source Files Generating Error Message: wrapper/w_ssm_sm_CartImport.c
Problem Description: The specified cartridge was imported.
System Action: None.
Administrator Action: None, informational.

SSMS0021 Import of cartridge '<cartridge name>' unnecessary; cartridge already exists

Message Identity: SSM_SM_MSG_CART_IMPORT_EXIST
Source Files Generating Error Message: wrapper/w_ssm_sm_CartImport.c
Problem Description: The specified cartridge was not imported because it already had been imported.
System Action: None.
Administrator Action: None, informational.

SSMS0022 Import of cartridge '<cartridge name>' failed

Message Identity: SSM_SM_MSG_CART_IMPORT_FAIL
Source Files Generating Error Message: wrapper/w_ssm_sm_CartImport.c
Problem Description: The System Manager was unable to import the specified cartridge.

System Action: The System Manager will terminate the import operation and not process any further cartridges in the import list.
Administrator Action: Examine the log for related messages. Check the spelling of the cartridge name; make certain the PVL and PVR are up and connected to the System Manager; check the robot for errors.

SSMS0023 Export of cartridge '<cartridge name>' complete

Message Identity: SSM_SM_MSG_CART_EXPORT_DONE
Source Files Generating Error Message: wrapper/w_ssm_sm_CartExport.c
Problem Description: The specified cartridge has been exported.
System Action: None
Administrator Action: None, informational

SSMS0024 Export of cartridge '<cartridge name>' failed

Message Identity: SSM_SM_MSG_CART_EXPORT_FAIL
Source Files Generating Error Message: wrapper/w_ssm_sm_CartExport.c
Problem Description: The System Manager was unable to export the specified cartridge.
System Action: The System Manager will not attempt to export any further cartridges in the export list.
Administrator Action: Check the log for related messages. See whether the cartridge was actually known to the PVL.

SSMS0025 Error returned from hpss_FilesetCreate

Message Identity: SSM_SM_MSG_CLAPI_FILESET_CREATE
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: An attempt to create a fileset failed.
System Action: None.
Administrator Action: Examine the log for related messages. Verify that the user's fileset configuration information is correct.

SSMS0026 Exiting cleanup, calling thread '<calling thread>' hpss_status <final status of function> rpc_status_total <sum of all rpc call exit codes>

Message Identity: SSM_SM_MSG_CLEANUP
Source Files Generating Error Message: adm/ssm_sm_adm_cleanup.c
Problem Description: The System Manager is exiting the cleanup function in preparation for shutting down. The cleanup function is called twice. A calling thread id of 1 indicates the function is being called the first time, by a thread requesting a shutdown. The cleanup function will stop accepting further rpcs. A calling thread id of 2 indicates the function is being called by the main thread, after all open rpcs have completed, to quiesce transactions, free malloced memory, and unregister services before final exit.
System Action: The System Manager will exit.
Administrator Action: None if this is the result of a normal SSM shutdown. Otherwise, examine the log for related messages.

SSMS0027 **Client logged in: id = '<client id>', principal='<principal name>', hostname='<host name>', port='<port>', mode='<mode>'**

Message Identity: SSM_SM_MSG_CLIENT_LOGGED_IN
Source Files Generating Error Message: adm/ssm_sm_adm_register_sm.c
Problem Description: The client has been logged in.
System Action: The client has been added to the client table.
Administrator Action: None, informational

SSMS0028 **Client logged out: id='<client id>', principal='<principal name>', hostname='<host name>', port='<port>', mode='<mode>'**

Message Identity: SSM_SM_MSG_CLIENT_LOGGED_OUT
Source Files Generating Error Message: config/ssm_sm_adm_register_sm.c
Problem Description: The client has been logged out.
System Action: The client has been deregistered for all managed objects and the client id has been set to unused.
Administrator Action: None, informational

SSMS0029 **SSM System Manager could not communicate with target server**

Message Identity: SSM_SM_MSG_COMM_ERROR
Source Files Generating Error Message: ssmuser/MODataManager.java, adm/ssm_sm_adm_cleanup.c, adm/ssm_sm_main.c, adm/ssm_sm_adm_check_one.c
Problem Description: The target server is not running or cannot be contacted. The server port may be incorrectly specified. The startup up daemon may not be running or cannot be contacted. An unexpected RPC Exception was encountered.
System Action: None
Administrator Action: Verify that the target server and the Startup Daemon are running. Check that the server port is not in use.

SSMS0030 **Condition variable failure for '<name of a lock>'**

Message Identity: SSM_SM_MSG_CONDITION_FAIL
Source Files Generating Error Message: misc/ssm_sm_cond_lock.c, misc/ssm_sm_cond_unlock.c
Problem Description: The System Manager was unable to obtain or signal a condition variable. The lock name supplies as much information as possible to associate the lock with the resource it protects; for example, "SSM_SM_client BhLock ClientID 1" is the lock for the binding handle for client 1.
System Action: The request will fail
Administrator Action: Retry the request. Sometimes this happens because another thread is temporarily busy with the resource. If the error persists, recycle the SSM.

SSMS0031 **Timed out waiting on condition variable for '<name of condition variable lock>'**

Message Identity: SSM_SM_MSG_CONDITION_TIMEOUT
Source Files Generating Error Message: misc/ssm_sm_cond_lock.c

Problem Description: The System Manager was not able to obtain a condition variable for access to a protected resource within a reasonable time.
System Action: The request will fail.
Administrator Action: Retry the request. It is possible another thread was using the resource and has now released it. If the error persists, recycle the System Manager.

SSMS0032 delog message: <delog message>

Message Identity: SSM_SM_MSG_DELOG
Source Files Generating Error Message: misc/ssm_sm_Delog.c
Problem Description: This is the output from the delog command forked and exec'ed by the System Manager. It consists of the command line with which the delog command was called.
System Action: None.
Administrator Action: None, informational.

SSMS0033 Conflicting information found between Mover Device and PVL Drive

Message Identity: SSM_SM_MSG_DEV_MISMATCH
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c
Problem Description: Conflicting information was found between the Mover Device and PVL Drive data; there may be a PVL drive without a Mover device or the PVL drive information may not be valid.
System Action: None.
Administrator Action: Try deleting an then recreating the device and drive configuration.,

SSMS0034 Can't delete this device or drive without its partner

Message Identity: SSM_SM_MSG_DEVDRV_PARTNER
Source Files Generating Error Message: config/ssm_sm_ConfigDelete.c
Problem Description: An attempt to delete a Mover device was made but a corresponding PVL drive still exists. An attempt to delete a PVL drive was made but the corresponding Mover device still exists. The requested metadata call was passed an incorrect CFClass variable.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0035 /dev/device<device number>

Message Identity: SSM_SM_MSG_DEVICE_NAME_DEFAULT
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: The Mover device name field has been filled in with a default device name.
System Action: None, informational.
Administrator Action: None, informational.

SSMS0036 /dev/drive<drive number>

Message Identity: SSM_SM_MSG_DRIVE_NAME_DEFAULT
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: The PVL drive name field has been filled in with a default drive name.
System Action: None
Administrator Action: None, informational.

SSMS0037 This duplicates a configuration that already exists

Message Identity: SSM_SM_MSG_DUP_CF
Source Files Generating Error Message: config/ssm_sm_ConfigUpdate.c
Problem Description: The entry duplicates an existing entry.
System Action: None
Administrator Action: Modify the configuration data so that the entry is unique.

SSMS0038 Target server rejected request; invalid argument passed

Message Identity: SSM_SM_MSG_EINVAL
Source Files Generating Error Message: attr/ssm_sm_AttrGet.c, attr/ssm_sm_attr_get.c, ssm_sm_attr_set.c, misc/ssm_sm_api.c, misc/ssm_sm_build_object_id.c, adm/ssm_sm_adm_build_list.c, adm/ssm_sm_adm_connect.c, notify/ssm_sm_adjust_sclass_list.c, notify/ssm_sm_alarms.c, common/HPSSModify.java, common/HPSSModifyStruct.java, common/HPSSValidateStruct.java, common/Modify_hpss_cos_md_t.java, common/Modify_hpss_sclass_md_t_disk_extended_t.java, common/Modify_hpss_sclass_md_t_tape_extended_t.java, common/SSM.java/ common/Validate_DriveDisk_t.java, common/ValidateServerConfigMvr_t.java, common/ValidateServerConfigNfs_t.java, common/Validate_hpss_cos_md_t.java, common/Validate_hpss_storsubsys_config_t.java, common/Validate_ssm_dmg_fileset_create_t.java, common/Validate_ssm_ns_fileset_info_t.java, hpssadm/CommandConfig.java, hpssadm/CommandPVLJob.java, hpssadm/CommandSClass.java, hpssadm/CommandSSM.java, hpssadm/CommandVolume.java, hpssadm/OptionField.java, hpssadm/OptionType.java, hpssadm/OptionVolName.java, hpssadm/StructHandler.java, hpssgui/HPSSPanel.java, hpssgui/HPSSSaveServerButton.java, hpssgui/HPSSTapeClearListButton.java, mobjects/HPSSStruct.java, mobjects/RPCInterface.java, mobjects/RPCLoginContext.java, mobjects/XDR.java, mobjects/u_signed32.java, ssmuser/ConfigDataManager.java/ ssmuser/MODataManager.java
Problem Description: An invalid value was detected and the request could not be processed.
System Action: The request will fail.
Administrator Action: Verify that the data entered is valid and try again.

SSMS0039 Request failed; target server reported a resource allocation failure

Message Identity: SSM_SM_MSG_ENOMEM
Source Files Generating Error Message: adm/ssm_sm_adm_register_sm.c
Problem Description: An attempt to allocate memory failed.
System Action: The request will fail.

Administrator Action: Verify memory resources.

SSMS0040 Operation is not permitted

Message Identity: SSM_SM_MSG_ENOTPERMITTED
Source Files Generating Error Message: core/bfs/bfs_WriteTape.c, core/ss/ss_core_api.c, core/ss/ss_dss.c, core/ss/ss_mapcommon.c, core/ss/ss_tpv.c, core/ss/ss_tss.c, core/ss/ss_tvv.c
Problem Description: Either the user does not have authority to perform the operation or the structure does not allow the operation to be performed on it.
System Action: The request will fail.
Administrator Action: Verify that the user has the authority to perform the operation. Verify that the structure allows the operation.

SSMS0041 The target server does not support the requested operation

Message Identity: SSM_SM_MSG_ENOTSUPP
Source Files Generating Error Message: adm/ssm_sm_adm_reinit_one.c, adm/ssm_sm_repair_one.c
Problem Description: The server does not support the requested action.
System Action: The request will fail.
Administrator Action: None, informational

SSMS0042 '<function that issued the message>' called from '<name of the API that was called>' (Client <client-id>/<client-id>) (<thread id>)

Message Identity: SSM_SM_MSG_ENTER_CLIENT_API
Source Files Generating Error Message: misc/ssm_sm_enter_api.c
Problem Description: This is a trace message to log which APIs are called by which clients.
System Action: None.
Administrator Action: None.

SSMS0044 exec() of '<name of executable program being executed>' failed

Message Identity: SSM_SM_MSG_EXEC_FAIL
Source Files Generating Error Message: misc/ssm_sm_doforkexec.c
Problem Description: The attempt to fork and exec the specified executable program failed.
System Action: The request will fail.
Administrator Action: Determine whether the path name for the specified program is defined correctly in the environment file, and whether the System Manager has permission to run it.

SSMS0045 Unexpected fatal error from '<server name>'; errno was <error number>

Message Identity: SSM_SM_MSG_FATAL_SYSERR
Source Files Generating Error Message: misc/ssm_sm_errors.c
Problem Description: An attempt to create a necessary object, such as a uuid, or to obtain a necessary resource failed.

System Action: The request will fail. The SSM System Manager will exit.
Administrator Action: Check the log file for related messages. Look up the error message from the server generating the error.

SSMS0046 The fileset name '<fileset name>' is too long

Message Identity: SSM_SM_MSG_FS_NAME_TOO_LONG
Source Files Generating Error Message: misc/ssm_sm_build_object_id.c
Problem Description: The fileset name exceeded the maximum number of characters allowed.
System Action: The request will fail.
Administrator Action: Use a shorter fileset name.

SSMS0047 function call '<name of an internal or system function>' failed

Message Identity: SSM_SM_MSG_FUNC_FAIL
Source Files Generating Error Message: adm/ssm_sm_Adm.c, adm/ssm_sm_adm_build_drive.c, adm/ssm_sm_adm_build_restrict_user.c, adm/ssm_sm_adm_cleanup.c, adm/ ssm_sm_adm_signal.c, adm/ssm_sm_adm_sync.c, attr/ssm_sm_AttrReg.c, attr/ssm_sm_attr_reg.c, config/ssm_sm_ConfigAdd.c, config/ssm_sm_ConfigDelete.c, config/ssm_sm_cf_drive_create.c, config/ssm_sm_cf_drive_delete.c, config/ssm_sm_cf_dirve_update.c, misc/ssm_sm_doforkexec.c, notify/ssm_sm_opstate.c, notify/ssm_sm_process_notification.c, reg/ssm_sm_reg_clear_dereg.c, reg/ssm_sm_reg_update.c, wrapper/ ssm_sm_CartImport.c
Problem Description: The specified function failed.
System Action: The request will fail.
Administrator Action: Depends upon the specified function.

SSMS0048 Halting all HPSS servers

Message Identity: SSM_SM_MSG_HALT_ALL_BEGIN
Source Files Generating Error Message: adm/ssm_sm_adm_halt_all.c
Problem Description: This message is issued when the user asks the SM to shutdown all non-SSM servers.
System Action: An attempt is made to shut down all the servers except the SM and SUD.
Administrator Action: None, informational.

SSMS0049 Halt of server '<server descriptive name>' is complete

Message Identity: SSM_SM_MSG_HALT_ONE_DONE
Source Files Generating Error Message: adm/ssm_sm_adm_halt_one.c
Problem Description: The System Manager has forcibly halted the specified server.
System Action: None.
Administrator Action: None, informational.

SSMS0050 Halt of server '<server descriptive name>' failed

Message Identity: SSM_SM_MSG_HALT_ONE_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_halt_one.c
Problem Description: The System Manager was unable to halt the specified server.
System Action: None.
Administrator Action: Make certain the Startup Daemon is running on the server's host. If the server will not respond to SSM's request to halt, the Startup Daemon is asked to terminate it.

SSMS0051 Cannot get handle for '<server descriptive name>'

Message Identity: SSM_SM_MSG_HANDLE_GET_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_connect.c
Problem Description: The System Manager is unable to obtain a binding handle for the specified server.
System Action: The System Manager will be unable to issue requests to the server.
Administrator Action: Make certain the server for which the failure occurred is executing. Check the network connectivity to its host.

SSMS0054 HPSS or SSM error number: <HPSS or SSM System Manager error number>

Message Identity: SSM_SM_MSG_HPSS_ERROR_NO
Source Files Generating Error Message: adm/ssm_sm_adm_register_sm.c, misc/ssm_sm_log.c
Problem Description: The System Manager has experienced the specified error. This message will always be accompanied by another message that describes the problem in more detail.
System Action: Depends on the particular problem.
Administrator Action: Examine the log for related messages.

SSMS0055 HPSS SSM System Manager initialization complete

Message Identity: SSM_SM_MSG_INIT_DONE
Source Files Generating Error Message: adm/ssm_sm_main.c
Problem Description: The System Manager has completed initialization, including reading the server configuration table, and initializing its internal tables.
System Action: None.
Administrator Action: None, informational.

SSMS0056 HPSS SSM System Manager initialization failed

Message Identity: SSM_SM_MSG_INIT_FAIL
Source Files Generating Error Message: adm/ssm_sm_main.c
Problem Description: The System Manager initialization has failed.
System Action: The System Manager will exit.
Administrator Action: Examine the log for related messages. Make certain DB2 is functioning properly. Verify that values for the input parameters in the startup script are correct.

SSMS0057 hpss_InitServer() failed with '<error message>' error <error number>

Message Identity: SSM_SM_MSG_INITSRV_FAIL
Source Files Generating Error Message: adm/ssm_sm_init.c
Problem Description: The hpss_InitServer function call failed.
System Action: The System Manager will not be able to initialize and will exit.
Administrator Action: Examine the log for related messages. Make certain DB2 is functioning properly. Verify that values for the input parameters in the startup script are correct.

SSMS0058 hpss_InitServer() failed

Message Identity: SSM_SM_MSG_W_INITSRV_FAIL

See SSM0057

SSMS0059 Invalid argument passed to function

Message Identity: SSM_SM_MSG_INVALID_ARG
Source Files Generating Error Message: attr/ssm_sm_attr_reg.c, misc/ssm_sm_errors.c, wrapper/w_ssm_CartMove.c, hpssgui/HPSSPanel.java
Problem Description: The method was unable to process the request because one or more arguments were not valid. For example, a physical volume name is too long for a volume name, an invalid list type was passed to find_id_in_list(), or the method was expecting a storage subsystem structure but it was not found.
System Action: The request will fail.
Administrator Action: Verify that the values for the specified method are valid.

SSMS0060 Invalid configuration file type <configuration file type>

Message Identity: SSM_SM_MSG_INVALID_CF
Source Files Generating Error Message: config/ssm_sm_cf_log.c
Problem Description: The System Manager has received a request for an invalid configuration type.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0061 SSM System Manager rejected request: invalid configuration file type

Message Identity: SSM_SM_MSG_W_INVALID_CF

See SSMS0060

SSMS0062 Invalid Execute Hostname Specified for server

Message Identity: SSM_SM_MSG_INVALID_EXHOST
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: The specified execute hostname could not be verified.
System Action: The request will fail.
Administrator Action: Verify that the execute hostname is valid.

SSMS0063 SSM System Manager rejected request; invalid argument(s) passed

Message Identity: SSM_SM_MSG_INVALID_INPUT
Source Files Generating Error Message: wrapper/w_ssm_CartExport.c, wrapper/w_ssm_CartImport.c, wrapper/w_ssm_CartMove.c, wrapper/w_ssm_DriveDismount.c, wrapper/w_ssm_JobCancel.c, wrapper/w_ssm_ResourceDelete.c, attr/ssm_sm_attr_get.c, attr/ssm_sm_attr_set.c, misc/ssm_sm_api.c, misc/ssm_sm_build_object_id.c, misc/ssm_sm_find_pvr.c, misc/ssm_sm_find_server_by_uuid.c, misc/ssm_sm_srvinfo_alloc_local.c, misc/ssm_sm_srvinfo_alloc_rpc.c, misc/ssm_sm_srvinfo_copy.c, misc/ssm_sm_srvinfo_free.c, reg/ssm_sm_reg_clear_all.c, reg/ssm_sm_reg_master.c, storage/ssm_sm_ResourceCreate.c, storage/ssm_sm_ResourceReclaim.c, storage/ssm_sm_ResourceRepack.c, adm/ssm_sm_Adm.c, adm/ssm_sm_adm_find_startd.c, adm/ssm_sm_adm_halt_one.c, adm/ssm_sm_adm_net_init.c, adm/ssm_sm_adm_reinit_one.c, adm/ssm_sm_adm_repair_one.c, adm/ssm_sm_adm_servfer_config.c, adm/ssm_sm_adm_shut_one.c, adm/ssm_sm_adm_start_one.c, adm/ssm_sm_adm_svrflag_set.c, config/ssm_sm_ConfigGetDefault.c, sanity/ssm_sm_sanity.c
Problem Description: The method was unable to process the request because one or more arguments were not valid.
System Action: The request will fail.
Administrator Action: Verify that the data entered is valid and try again.

SSMS0064 Invalid managed object type <managed object type>

Message Identity: SSM_SM_MSG_INVALID_MO
Source Files Generating Error Message: attr/ssm_sm_attr_get.c, attr/ssm_sm_attr_reg.c, attr/ ssm_sm_attr_set.c
Problem Description: The System Manager has received a request for an invalid managed object type.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0065 SSM System Manager rejected request: invalid managed object type

Message Identity: SSM_SM_MSG_W_INVALID_MO

See SSMS0064

SSMS0066 Invalid object id <managed object id>

Message Identity: SSM_SM_MSG_INVALID_OBJID
Source Files Generating Error Message: attr/ssm_sm_attr_get.c, reg/ssm_sm_reg_search.c
Problem Description: The System Manager has received a request for which the object type is not valid for the specified server type.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0067 System Manager rejected request: invalid object id

Message Identity: SSM_SM_MSG_W_INVALID_OBJID

See SSMS0066

SSMS0068 SSM System Manager rejected request; invalid object type for server type

Message Identity: SSM_SM_MSG_INVALID_OBJ_TYPE
Source Files Generating Error Message: sanity/ssm_sm_sanity_mo.c,
Problem Description: The System Manager has received a request for which the object type is not valid for the specified server type.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0069 Invalid operation type <operation type>

Message Identity: SSM_SM_MSG_INVALID_OP
Source Files Generating Error Message: adm/ssm_sm_Adm.c
Problem Description: The System Manager has received a request for an invalid operation.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0070 SSM System Manager rejected request: invalid operation type

Message Identity: SSM_SM_MSG_W_INVALID_OP

See SSMS0069

SSMS0071 Invalid operation <operation type> for config file type <configuration type>

Message Identity: SSM_SM_MSG_INVALID_OPCF
Source Files Generating Error Message: config/ssm_sm_cf_log.c
Problem Description: The specified operation is not valid for the specified configuration type.
System Action: The request will fail.
Administrator Action: None

SSMS0072 Config failed; requested operation not valid for configuration type

Message Identity: SSM_SM_MSG_W_INVALID_OPCF

See SSMS0071

SSMS0073 Request failed; requested operation not valid for managed object

Message Identity: SSM_SM_MSG_INVALID_OPMO
Source Files Generating Error Message: attr/ssm_sm_AttrReg.c, attr/ssm_sm_AttrSet.c, attr/ssm_sm_attr_get.c, attr/ssm_sm_attr_reg.c, attr/ssm_sm_attr_set.c, misc/ssm_sm_api.c, sanity/ssm_sm_sanity_mo.c
Problem Description: The System Manager has received a request for an operation that is not valid for the managed object.
System Action: The request will fail.

Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0074 **Invalid server id <server id>**

Message Identity: SSM_SM_MSG_INVALID_SRVID
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c, reg/ssm_sm_reg_update.c, sanity/ssm_sm_sanity_mo.c
Problem Description: The System Manager has received a request for an invalid server id.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0075 **SSM System Manager rejected request: invalid server id**

Message Identity: SSM_SM_MSG_W_INVALID_SRVID

See SSMS0074

SSMS0076 **Invalid SrvInfoUnion type <a type from the SrvInfoUnion_t union structure>**

Message Identity: SSM_SM_MSG_INVALID_SRVINFO
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c, config/ssm_sm_cf_drive_create.c, misc/ssm_sm_srvinfo_alloc_rpc.c
Problem Description: The System Manager has received an invalid SrvInfoUnion union member type.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support.

SSMS0077 **SSM System Manager rejected request: invalid SrvInfoUnion_t class**

Message Identity: SSM_SM_MSG_W_INVALID_SRVINFO

See SSMS0076

SSMS0078 **Invalid server type <server type>**

Message Identity: SSM_SM_MSG_INVALID_SRVTYPE
Source Files Generating Error Message: attr/ssm_sm_attr_get.c
Problem Description: The System Manager has received a request for an invalid server type.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0079 **SSM System Manager rejected request: invalid server type**

Message Identity: SSM_SM_MSG_W_INVALID_SRVTYPE

See SSMS0078.

SSMS0080 **Invalid uuid '<uuid>'**

Message Identity: SSM_SM_MSG_INVALID_UUID
Source Files Generating Error Message: misc/ssm_sm_find_server_by_uuid.c
Problem Description: The System Manager has received a request for an invalid uuid.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0081 **Java Exception: '<Java exception output>'**

Message Identity: SSM_SM_MSG_JAVA_EXCEPTION
Source Files Generating Error Message: hpssgui/MigrPurgPolicyWindow.java
Problem Description: A Java exception has occurred during an attempt to save a migration policy.
System Action: The request will fail.
Administrator Action: Review the Java exception for the cause. Contact HPSS Technical Support. This is an internal error.

SSMS0082 **'<function that issued the message>' called from '<name of the API that was called>' (Status (HPSS=<HPSS return status> RPC=<RPC return status>)) (<thread id>)**

Message Identity: SSM_SM_MSG_LEAVE_API
Source Files Generating Error Message: misc/ssm_sm_enter_api.c
Problem Description: This is a trace message to log when an API is exited.
System Action: None
Administrator Action: None. Check status to see if API succeeded.

SSMS0083 **Warning: this setting may lead to significant waste of disk space**

Message Identity: SSM_SM_MSG_MAX_SSEG_SIZE_WARN
Source Files Generating Error Message: common/ModifyMaxSegSize.java
Problem Description: An informational warning is displayed to warn the user that the configuration setting is not optimal.
System Action: None
Administrator Action: It is advised that the administrator should modify the Maximum Segment Size setting until the warning message is no longer displayed.

SSMS0084 **Unable to create new Class of Service. Table is full**

Message Identity: SSM_SM_MSG_MM_TABLE_IS_FULL
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c, hpssgui/HPSSSaveConfigButton.java
Problem Description: The maximum number of Classes of Service (HPSS_MAX_COS) that can be created has already been reached.
System Action: The request to create a new class of service will fail.
Administrator Action: An existing Class of Service must be deleted before a new Class of Service can be created. Exercise caution before deleting a Class of Service.

SSMS0085 **Failure in Metadata Manager call <Metadata Manager call> error <error number>: <message>**

Message Identity: SSM_SM_MSG_MMFAIL
Source Files Generating Error Message: adm/ssm_sm_adm_check_config.c, adm/ssm_sm_init.c, config/ssm_sm_ConfigAdd.c, config/ssm_sm_ConfigDelete.c, config/ssm_sm_ConfigGetDefault.c, config/ssm_sm_ConfigRead, config/ssm_sm_ConfigUpdate.c, config/ssm_sm_cf_authz_create.c, config/ssm_sm_cf_drive_create.c, config/ssm_sm_cf_drive_update.c, config/ssm_sm_cf_log.c, misc/ssm_sm_log.c
Problem Description: A call to the metadata library function has failed.
System Action: The request will fail.
Administrator Action: Examine the log for a related message which will list the exact metadata error, if one was available.

SSMS0086 An unspecified Metadata Manager failure occurred

Message Identity: SSM_SM_MSG_W_MMFAIL

See SSMS0085

SSMS0087 A storage subsystem must be configured before you can create an MPS

Message Identity: SSM_SM_MSG_MPS_CONFIG
Source Files Generating Error Message: ssm_sm_ConfigGetDefault.c
Problem Description: An attempt to get a default storage subsystem for a new Migration/Purge Server configuration failed.
System Action: An error message is displayed. The MPS configuration cannot be saved.
Administrator Action: Create a storage subsystem before trying to configure a new Migration/Purge server

SSMS0088 Mutex initialization failed

Message Identity: SSM_SM_MSG_MUTEX_INIT_FAIL
Source Files Generating Error Message: adm/ssm_sm_init.c
Problem Description: The System Manager was unable to initialize a mutex.
System Action: The System Manager will not be able to initialize and will exit.
Administrator Action: Contact HPSS Technical Support.

SSMS0089 Mutex lock failed

Message Identity: SSM_SM_MSG_MUTEX_LOCK_FAIL
Source Files Generating Error Message: misc/ssm_sm_mutex_lock.c
Problem Description: The System Manager was unable to lock a mutex.
System Action: The request will fail and the System Manager will exit.
Administrator Action: Restart the System Manager and retry the request.

SSMS0090 Mutex unlock failed

Message Identity: SSM_SM_MSG_MUTEX_UNLOCK_FAIL
Source Files Generating Error Message: misc/ssm_sm_mutex_unlock.c
Problem Description: The System Manager was unable to unlock a mutex.

System Action: The request will fail and the System Manager will exit.
Administrator Action: Restart the System Manager and retry the request.

SSMS0091 Invalid accounting style or missing accounting policy

Message Identity: SSM_SM_MSG_NO_ACCT_POLICY
Source Files Generating Error Message: adm/ssm_sm_adm_acct_init.c, config/ssm_sm_ConfigAdd.c
Problem Description: The accounting style is not supported or no accounting policy could be found.
System Action: The request will fail.
Administrator Action: Verify that the accounting style is valid or create a new accounting policy.

SSMS0092 All device id values are in use

Message Identity: SSM_SM_MSG_NO_DEVICE_ID
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: A default device id could not be obtained because all device ids are already in use.
System Action: The request will fail.
Administrator Action: If necessary, delete an existing device so that the new device can be created.

SSMS0093 ObjectID does not match the object

Message Identity: SSM_SM_MSG_NO_MATCH
Source Files Generating Error Message: notify/ssm_sm_check_mo_object_id.c
Problem Description: A check which is made to verify that an entry in the table of registered objects has the same object id as that of a managed object passed to the SSM System Manager by a subsystem notification has failed.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0094 Can’t find the Core Server which owns that physical volume

Message Identity: SSM_SM_MSG_NO_SS_FOR_PV
Source Files Generating Error Message: hpssgui/CartridgeInfoButtonPanel.java, misc/ssm_sm_build_object_id.c
Problem Description: An attempt to locate the Core Server that owns a physical volume has failed.
System Action: The request will fail.
Administrator Action: Verify that the physical volume has been allocated to a Core Server. Verify that the Core Server is running.

SSMS0095 Cannot find startup daemon for host '<hostname>'. Please configure a startup daemon for the host and make sure that it is running on the host; or mark the server Non-Executable; or delete the server configuration to silence these messages.

Message Identity: SSM_SM_MSG_NO_STARTUP_DEMON
Source Files Generating Error Message: adm/ssm_sm_adm_find_startd.c
Problem Description: The System Manager cannot find an entry for a Startup Daemon for the specified host in the server configuration table.
System Action: Servers for this host cannot be started, and in some cases cannot be halted, without the aid of the Startup Daemon.
Administrator Action: Configure an entry in the server configuration table for a Startup Daemon on the specified host.

SSMS0096 Request failed; no startup daemon is configured for the target host

Message Identity: SSM_SM_MSG_W_NO_STARTUP_DEMON

See SSMS0095

SSMS0097 No subsystem is available in which to place a new Core Server

Message Identity: SSM_SM_MSG_NO_SUBSYS_FOR_CORE
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c
Problem Description: An attempt to create a new Core Server failed. There can only be one Core Server per subsystem and all of the subsystem's already have a Core Server.
System Action: The request will fail.
Administrator Action: Either create a new subsystem in which to place the new Core Server, or delete an existing Core Server and then create a new Core Server using the deleted Core Server's subsystem.

SSMS0099 No subsystem is available in which to place a new Migration Purge Server

Message Identity: SSM_SM_MSG_NO_SUBSYS_FOR_MPS
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c
Problem Description: An attempt to create a new Migration Purge Server failed. There can only be one Migration Purge Server per subsystem and all of the subsystem's already have a Migration Purge Server.
System Action: The request will fail.
Administrator Action: Either create a new subsystem in which to place the new Migration Purge Server, or delete an existing Migration Purge Server and then create a new Migration Purge Server using the deleted Migration Purge Server's subsystem.

SSMS0100 The SSM System Manager was unable to find the specified device or drive '<device or drive id>' for the SSM data type '<data type id>'

Message Identity: SSM_SM_MSG_NO_SUCH_DEVICE
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c, misc/ssm_sm_build_object_id.c
Problem Description: An attempt to locate a device or drive with the given id failed.
System Action: The request will fail.
Administrator Action: Verify that the device or drive id is valid.

SSMS0101 No server of type '<server type>' could be found to handle your request

Message Identity: SSM_SM_MSG_NO_SUCH_SERVER
Source Files Generating Error Message: misc/ssm_sm_build_object_id.c
Problem Description: An attempt to locate a Core Server's id using the server's uuid failed or an attempt to locate a Core Server using a physical volume name failed.
System Action: The request will fail.
Administrator Action: Verify that the uuid is valid or verify that the physical volume name is valid.

SSMS0102 CHECK CONFIG: '<server descriptive name>' type-specific configuration has not been created.

Message Identity: SSM_SM_MSG_NO_TYPE_SPECIFIC
Source Files Generating Error Message: adm/ssm_sm_adm_check_config.c
Problem Description: The server's basic configuration has been created but its type-specific configuration has not been created yet or has been deleted. This should not occur since both the basic and type-specific configuration are created at the same time. SSM is warning that the configuration for the server is incomplete.
System Action: The status of the server will be marked "CHECK CONFIG" on the HPSS Servers list screen. The server will fail to start until the server's type-specific configuration is added.
Administrator Action: Use DB2 to add the specified server's type-specific configuration or delete and re-add the server configuration.

SSMS0103 Type-specific configuration has not been created

Message Identity: SSM_SM_MSG_W_NO_TYPE_SPECIFIC

See SSMS0102

SSMS0104 Entry not found

Message Identity: SSM_SM_MSG_NOT_FOUND
Source Files Generating Error Message: reg/ssm_sm_reg_clear_all.c, reg/ssm_sm_reg_clear_dereg.c, hpssadm/StructHandler.java
Problem Description: The client was not found.
System Action: The request will fail.
Administrator Action: Verify that the client information is valid.

SSMS0105 Expecting a group of a particular type but it was not found

Message Identity: SSM_SM_MSG_NOT_IN_CF
Source Files Generating Error Message: hpssadm/StructHandler.java
Problem Description: The hpssadm was expecting the data structure to contain a group definition of a particular type but the group definition was not found.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0106 Unexpected null pointer encountered

Message Identity: SSM_SM_MSG_NULL_POINTER
Source Files Generating Error Message: misc/ssm_sm_errors.c
Problem Description: An attempt to create or obtain a necessary object failed or an invalid parameter was passed.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0107 Non-HPSS error message: '<error message>'

Message Identity: SSM_SM_MSG_OTHER_ERROR_TEXT
Source Files Generating Error Message: misc/ssm_sm_errors.c
Problem Description: ssm_sm_errors.c attempts to convert a Non-HPSS error message to text and log the information
System Action: None.
Administrator Action: Check the log file for further information.

SSMS0108 CHECK CONFIG: Principal name '<principal name>' for server '<server descriptive name>' does not match the environment variable. Check environment variable '<environment variable name>'

Message Identity: SSM_SM_MSG_PRINCIPAL_MISMATCH
Source Files Generating Error Message: adm/ssm_sm_adm_server_config.c
Problem Description: The server’s configuration screen contains a file folder tab labeled, "Security Controls", which when opened contains a field labeled, Principal Name. The principal name defined in this field is different from the value defined by the specified environment variable.
System Action: The status of the server will be marked "CHECK CONFIG" on the Servers list screen. The server will fail to start until the server’s Principal Name is corrected.
Administrator Action: Correct the Principal Name (check for spelling error) entered under the Security Controls section of the server’s configuration screen to match the value set by the environment variable.

SSMS0109 reclaim message: <reclaim message>

Message Identity: SSM_SM_MSG_RECLAIM
Source Files Generating Error Message: storage/ssm_sm_ResourceReclaim.c
Problem Description: This is the output from the reclaim command forked and exec’ed by the System Manager.
System Action: None.
Administrator Action: Follow up appropriately if the output includes any errors from the reclaim command.

SSMS0110 Reinitializing all HPSS servers

Message Identity: SSM_SM_MSG_REINIT_ALL_BEGIN
Source Files Generating Error Message: adm/ssm_sm_adm_reinit_all.c
Problem Description: A trace message indicating the System Manager is reinitializing all servers.

System Action: None.
Administrator Action: None, informational.

SSMS0111 Reinitialization of server '<server descriptive name>' complete

Message Identity: SSM_SM_MSG_REINIT_ONE_DONE
Source Files Generating Error Message: adm/ssm_sm_adm_reinit_one.c
Problem Description: The System Manager reinitialized the specified server.
System Action: None.
Administrator Action: None, informational.

SSMS0112 Reinitialization of server '<server descriptive name>' failed

Message Identity: SSM_SM_MSG_REINIT_ONE_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_reinit_one.c
Problem Description: The System Manager could not reinitialize the specified server.
System Action: None.
Administrator Action: Examine the log for related messages. Not all servers support the reinitialization operation. To force a server that does not support reinitialization to reread its metadata, shutdown and restart the server.

SSMS0113 Reinitialization not supported by server '<server descriptive name>'

Message Identity: SSM_SM_MSG_RENINIT_NOTSUPPORTED
Source Files Generating Error Message: adm/ssm_sm_adm_reinit_one.c
Problem Description: The specified server does not support the operation of reinitialization.
System Action: None
Administrator Action: Shut down and restart the server to make it reread its configuration.

SSMS0114 repack message: <repack message>

Message Identity: SSM_SM_MSG_REPACK
Source Files Generating Error Message: storage/ssm_sm_ResourceRepack.c
Problem Description: This is the output from the repack command forked and exec’ed by the System Manager.
System Action: None
Administrator Action: Follow up appropriately if the output includes any errors from the repack command.

SSMS0115 Server '<server descriptive name>' has been notified of repair

Message Identity: SSM_SM_MSG_REPAIR_ONE_DONE
Source Files Generating Error Message: adm/ssm_sm_adm_repair_one.c
Problem Description: The specified server has been informed that an error condition that it had previously reported to the System Manager was repaired by the operator.

System Action: The server should clear its error flags. If, however, the problem was not truly fixed, the server is likely to discover this and immediately reset its error flags.
Administrator Action: None, informational.

SSMS0116 Notification of repair to server '<server descriptive name>' failed

Message Identity: SSM_SM_MSG_REPAIR_ONE_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_repair_one.c
Problem Description: The System Manager was unable to notify the specified server that an error condition previously reported by the server was repaired by the operator.
System Action: None.
Administrator Action: Determine whether the specified server is executing, and check network connectivity to its host.

SSMS0117 Notification of repair not supported by server '<server descriptive name>'

Message Identity: SSM_SM_MSG_REPAIR_NOTSUPPORTED
Source Files Generating Error Message: adm/ssm_sm_adm_repair_one.c
Problem Description: The specified server does not support this operation.
System Action: None.
Administrator Action: Some servers do not support the repair function and will return HPSS_ENOTSUPPORTED. If it is necessary to clear the server’s error states, shutdown and restart it.

SSMS0118 Resource Delete failed; resource is busy

Message Identity: SSM_SM_MSG_RESOURCE_BUSY
Source Files Generating Error Message: common/HPSSFormat.java
Problem Description: A resource is busy and cannot be obtained.
System Action: The request will fail.
Administrator Action: Check the log file for related error messages. Wait for the resource to become available and try again.

SSMS0119 Shutting down all HPSS servers

Message Identity: SSM_SM_MSG_SHUTDOWN_ALL_BEGIN
Source Files Generating Error Message: adm/ssm_sm_adm_shut_all.c
Problem Description: A trace message indicating the System Manager is shutting down all servers.
System Action: None.
Administrator Action: None, informational.

SSMS0120 Shutdown of server '<server descriptive name>' initiated

Message Identity: SSM_SM_MSG_SHUTDOWN_ONE_DONE
Source Files Generating Error Message: adm/ssm_sm_adm_shut_one.c
Problem Description: The System Manager has probably shut down the specified server. It has requested the server to shut down gracefully, and the server has said

it would. It is possible, however, that the server could have had difficulty with the shutdown and is still running, or that it just hasn't quite completed the shutdown yet.
System Action: None.
Administrator Action: Cautious optimism. Watch the server list window to see whether the server's Status eventually goes to DOWN.

SSMS0121 Shutdown of server '<server descriptive name>' failed

Message Identity: SSM_SM_MSG_SHUTDOWN_ONE_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_shut_one.c
Problem Description: The System Manager was unable to shutdown the specified server.
System Action: None.
Administrator Action: Examine the log for related messages. If necessary, use the force halt command to stop the server.

SSMS0122 Shutdown of server failed

Message Identity: SSM_SM_MSG_W_SHUTDOWN_ONE_FAIL

See SSMS0121

SSMS0123 sigwait() failed

Message Identity: SSM_SM_MSG_SIGWAIT_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_signal.c
Problem Description: The sigwait() system call failed.
System Action: The System Manager will exit.
Administrator Action: Examine the log for a related debug message of type SSMS0006 which will list the sigwait return code.

SSMS0124 SSM System Manager using descriptive name '<System Manager descriptive name>'

Message Identity: SSM_SM_MSG_SM_DESC_NAME
Source Files Generating Error Message: adm/ssm_sm_init.c
Problem Description: The SSM System Manager reported the descriptive name which it is using.
System Action: None.
Administrator Action: None, informational

SSMS0125 SSM System Manager reported an unspecified internal error

Message Identity: SSM_SM_MSG_SM_INTERNAL_ERROR
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An internal error was encountered such as the number of RPC security mechanisms found exceeds the number that was expected or a thread, pipe, or fork request failed.
System Action: The request will fail.
Administrator Action: Contact HPSS Technical Support. This is an internal error.

SSMS0126 General resource or synchronization failure in SSM System Manager

Message Identity: SSM_SM_MSG_SM_RESOURCE
Source Files Generating Error Message:
- SSM_ECANT_MALLOC: misc/ssm_sm_srvinfo_alloc_local.,c misc/ssm_sm_srvinfo_alloc_rpc.c, misc/ssm-sm_srvinfo_id_get.c, wrapper/w_ssm_CartImport.c
- SSM_EMUTEX_FAIL: adm/ssm_sm_init.c
- SSM_ECONDITION_TIMEOUT: misc/ssm_sm_cond_lock.c

Problem Description: An attempt to allocate memory, perform operations on a mutex or a timeout condition occurred.
System Action: The request will fail.
Administrator Action: Check the log file for related messages. Verify that adequate resources are available.

SSMS0127 Server must be down before changing its configuration data

Message Identity: SSM_SM_MSG_SRV_MUST_BE_DOWN
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c, config/ssm_sm_ConfigDelete.c, ssm_sm_ConfigUpdate.c
Problem Description: An attempt to add or delete a configuration failed because a server that must read the configuration file is still running.
System Action: None
Administrator Action: Shutdown the servers and then try the configuration add or delete again. When the server is restarted, the server will reread the modified configuration file to obtain the updated information.

SSMS0128 System Manager cannot locate server. Check server connection

Message Identity: SSM_SM_MSG_SRV_NOT_FOUND
Source Files Generating Error Message: hpssgui/CartridgeInfoButtonPanel.java, hpssadm/CommandVolume.java, misc/ssm_sm_api.c, misc/ssm_sm_build_object_id.c, misc/ssm_sm_find_server_by_type.c, misc/ssm_sm_find_server_by_uuid.c
Problem Description: The server is not running or the invalid information was provided in order to locate the server.
System Action: The request will fail.
Administrator Action: Check the the server is running and that the server information provided is correct.

SSMS0129 SSM configuration must be created before any others

Message Identity: SSM_SM_MSG_SSM_FIRST
Source Files Generating Error Message: config/ssm_sm_cf_log.c
Problem Description: The first server added to the server configuration table must be for the SSM System Manager, since every other entry includes the SSMSM UUID.
System Action: The System Manager will not supply the requested default entry for the server configuration table.

Administrator Action: This should never happen, because when the System Manager is started for the first time after installation, it creates an entry for itself in the server configuration table. However, if necessary, create the initial SSM entry.

SSMS0130 No entry for SSM '<SSM name>' found in server table

Message Identity: SSM_SM_MSG_SSM_NOT_FOUND
Source Files Generating Error Message: adm/ssm_sm_adm_build_list.c
Problem Description: No entry was found in the server configuration table for the SSM System Manager.
System Action: The System Manager will be unable to start until its server configuration has been added to the server configuration table.
Administrator Action: The hpss_ssm_sec utility should be run to see if the entry exists. If it doesn't exist, then hpss_ssm_sec configure should be run to create it. If the System Manager still will not start, examine the server configuration table to be certain there is only one SSM-type entry and that its fields are all correct.

SSMS0131 No entry for SSM was found in server table

Message Identity: SSM_SM_MSG_W_SSM_NOT_FOUND

See SSMS0130

SSMS0132 Starting all HPSS servers

Message Identity: SSM_SM_MSG_START_ALL_BEGIN
Source Files Generating Error Message: adm/ssm_sm_adm_start_all.c
Problem Description: A trace message indicating the System Manager is starting all servers.
System Action: None
Administrator Action: None, informational

SSMS0133 Starting all HPSS servers that are to be started automatically

Message Identity: SSM_SM_MSG_START_ALL_INIT_BEGIN
Source Files Generating Error Message: adm/ssm_sm_adm_start_all.c
Problem Description: A message is issued that an attempt will be made to start all servers which have their STARTUP_SERVER_FLAG set.
System Action: None
Administrator Action: None, informational

SSMS0134 Server '<server descriptive name>' was already running

Message Identity: SSM_SM_MSG_START_ALREADY_UP
Source Files Generating Error Message: adm/ssm_sm_adm_start_one.c
Problem Description: The attempt to start the specified server failed because the server was already running.
System Action: None
Administrator Action: It is possible that the Startup Daemon just thinks this server is up but it really isn't. See whether the SSM can connect to the server, or whether a *ps*

on the server's host shows it running. If not, it may be necessary to restart the Startup Daemon on that host.

SSMS0135 Execute flag not set for server '<server descriptive name>'

Message Identity: SSM_SM_MSG_START_NO_EXEC
Source Files Generating Error Message: adm/ssm_sm_adm_start_one.c
Problem Description: The specified server could not be started because the EXECUTE_SERVER_FLAG is not set in the Flags field of its entry in the server configuration table.
System Action: The System Manager will refuse to start the server.
Administrator Action: Use the configuration update screen to set the flag.

SSMS0136 Execute flag not set

Message Identity: SSM_SM_MSG_W_START_NO_EXEC

See SSMS0135

SSMS0137 Startup of server '<server descriptive name>' initiated

Message Identity: SSM_SM_MSG_START_ONE_DONE
Source Files Generating Error Message: adm/ssm_sm_adm_start_one.c
Problem Description: The System Manager has started the specified server.
System Action: The System Manager will attempt to connect to the server.
Administrator Action: Cautious optimism. Watch for events from the server indicating its initialization is complete and from the System Manager indicating it could connect to the server.

SSMS0138 Startup of server '<server descriptive name>' failed

Message Identity: SSM_SM_MSG_START_ONE_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_start_one.c
Problem Description: The System Manager was unable to start the specified server.
System Action: None.
Administrator Action: Examine the log for related messages. Make certain the server's execution bit is turned on. Verify that the Startup Daemon for the server's host is configured, up, and connected to SSM. Verify that the executable path name for the server in the server's configuration file and the permissions on the executable file are correct.

SSMS0140 HPSS SSM System Manager initializing

Message Identity: SSM_SM_MSG_STARTUP
Source Files Generating Error Message: adm/ssm_sm_init.c
Problem Description: The System Manager is initializing.
System Action: The System Manager will attempt to read the server configuration table, initialize its internal tables, and assess the status of each server.
Administrator Action: None, informational.

SSMS0141 getpwnam(<user name>) failed (errno = <error>)

Message Identity: SSM_SM_MSG_GETPWNAM_FAIL
Source Files Generating Error Message: misc/ssm_sm_doforkexec.c
Problem Description: SSM could not determine an appropriate non-privileged user under whose identity to execute a utility program. The SSM System Manager must be executed as root, but it executes utilities such as accounting as a non-privileged user. The default non-privileged id it uses is "hpss"; this can be overridden by the value of the HPSS_USER environment variable. This error means the System Manager cannot find the entry for the non-privileged user in the password file.
System Action: The request will fail.
Administrator Action: Make sure that the System Manager is running as root and that the <user name> user has sufficient privileges to execute the utility.

SSMS0142 setuid(<userid>) failed (errno = <error>)

Message Identity: SSM_SM_MSG_SETUID_FAIL
Source Files Generating Error Message: misc/ssm_sm_doforkexec.c
Problem Description: SSM could not set its identity to the specified user id before attempting to execute a utility program. The SSM System Manager must be executed as root, but it executes utilities such as accounting as a non-privileged user. The default non-privileged id it uses is "hpss"; this can be overridden by the value of the HPSS_USER environment variable. This error means the System Manager could not set its identity to the non-privileged user id.
System Action: The request will fail.
Administrator Action: Make sure that the System Manager is running as root and that the <userid> user has sufficient privileges to execute the utility.

SSMS0143 Could not find a <server type> server in Subsystem Id #<subsysId>

Message Identity: SSM_SM_MSG_NO_SERVER_MATCH
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: SSM could not find a particular server type in a particular subsystem. When creating XDSM filesets, the SSM System Manager needs to find the Core Server in the same storage subsystem as the DMAP Gateway; similarly it needs to find the DMAP Gateway in the same storage subsystem as the Core Server. Each XDSM fileset is associated with a DMAP Gateway and a Core Server in the same storage subsystem. This error means that the System Manager wasn’t able to find the specified server type (e.g. CORE or DMG) in the specified storage subsystem.
System Action: The request will fail.
Administrator Action: Check to be sure that a server of type <server type> exists in subsystem <subsysId>.

SSMS0144 Client RPC Thread Pool Full: ThreadPoolSize=<pool size> RequestQueueSize=<queue size> ActiveRPCs=<active> QueuedRPCs=<queued> MaxActive/QueuedRPCs=<max>

Message Identity: SSM_SM_MSG_CLIENT_THRDPOOL_FULL

Source Files Generating Error Message: misc/ssm_sm_enter_api.c
Problem Description: The Client RPC Interface thread pool is full. When the thread pool is full RPC requests will be queued to wait for an available thread to process the RPC request. When RPCs have to wait for an available thread the System Manager's response to client RPCs can become downgraded. When both the thread pool and the request queue become full RPC requests will be dropped. This message shows the size of the thread pool <pool size>, the size of the request queue <queue size>, the number of currently active RPCs <active>, the number of queued RPCs <queued> and the maximum number of active and queued RPCs <max>.
System Action: The System Manager response to Client RPCs will be degraded (slowed down) or dropped completely.
Administrator Action: Adjust the **Thread Pool Size** and **Request Queue Size** values in the System Manager's Interface Controls Configuration. A good starting point would be to set the Thread Pool Size to be a value a little large than <max>. The System Manager will need to be restarted.

SSMS0145 **Server RPC Thread Pool Full: ThreadPoolSize<pool size> RequestQueueSize=<queue size> ActiveRPCs=<active> QueuedRPCs=<queued> MaxActive/QueuedRPCs=<max>**

Message Identity: SSM_SM_MSG_SERVER_THRDPOOL_FULL
Source Files Generating Error Message: misc/ssm_sm_enter_api.c
Problem Description: The Server RPC Interface thread pool is full. When the thread pool is full RPC requests will be queued to wait for an available thread to process the RPC request. When RPCs have to wait for an available thread the System Manager's repose to server RPCs can become downgraded. When both the thread pool and the request queue become full RPC requests will be dropped. This message shows the size of the thread pool <pool size>, the size of the request queue <queue size>, the number of currently active RPCs <active>, the number of queued RPCs <queued> and the maximum number of active and queued RPCs <max>.
System Action: The System Manager response to Server RPCs will be degraded (slowed down) or dropped completely.
Administrator Action: Adjust the **HPSS_SM_SRV_TPOOL_SIZE** and **HPSS_SM_SRV_QUEUE_SIZE** environment variable values. A good starting point would be to set the **HPSS_SM_SRV_TPOOL_SIZE** to be a value a little large than <max>. The System Manager will need to be restarted.

SSMS0146 **Issuing accounting command: '<accounting command about to be executed>'**

Message Identity: SSM_SM_MSG_TRACE_ACCT
Source Files Generating Error Message: acct/ssm_sm_AcctRun.c
Problem Description: The System Manager is about to start an accounting run with the specified arguments.
System Action: None
Administrator Action: None, informational

SSMS0147 **Issuing delog command: '<text of the delog command>'**

Message Identity: SSM_SM_MSG_TRACE_DELOG

Source Files Generating Error Message: misc/ssm_sm_Delog.c
Problem Description: A trace message containing the delog command the System Manager is about to issue.
System Action: None.
Administrator Action: None, informational.

SSMS0148 **Drive <SSM drive list id; the index of the drive in the list> devid <Mover and PVL shared device/drive list id> devname '<Mover device name>' drvaddr '<PVL drive name>' mvr <Mover server id> host '<Mover hostname>' pvl <PVL server id> pvr <PVR server id>**

Message Identity: SSM_SM_MSG_TRACE_DRIVES
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c
Problem Description: A trace message printed as the System Manager reads the device and drive configuration tables and builds the SSM drive list.
System Action: None.
Administrator Action: None, informational.

SSMS0149 **Entering function '<module name>'**

Message Identity: SSM_SM_MSG_TRACE_ENTER
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c, adm/ssm_sm_adm_build_list.c, adm/ssm_sm_adm_build_restrict_user.c, adm/ssm_sm_adm_build_rtm.c, adm/ssm_sm_adm_cleanup.c, adm/ssm_sm_adm_net_init.c, adm/ssm_sm_adm_register_sm.c, adm/ssm_sm_adm_reinit_one.c, adm/ssm_sm_adm_repair_one.c, adm/ssm_sm_adm_shut_one.c, adm/ssm_sm_adm_start_one.c, misc/ssm_sm_Delog.c, misc/ssm_sm_enter_api.c, misc/ssm_sm_log.c, misc/ssm_sm_srvinfo_alloc_local.c, misc/ssm_sm_srvinfo_alloc_rpc.c, notify/ssm_sm_TapeCheckInNotify.c, storage/ssm_sm_ResourceCreate.c, storage/ssm_sm_ResourceReclaim.c, storage/ssm_sm_ResourceRepack.c, wrapper/w_ssm_DriveDismount.c, wrapper/w_ssm_JobCancel.c, wrapper/w_ssm_ResourceDelete.c
Problem Description: A trace message indicating the System Manager is entering the specified function.
System Action: None.
Administrator Action: None, informational.

SSMS0150 **Entering function '<System Manager function name>' ServerID <server id> CFClass <configuration type>**

Message Identity: SSM_SM_MSG_TRACE_ENTER_CF
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c, config/ssm_sm_ConfigDelete.c, config/ssm_sm_ConfigGetDefault.c, config/ssm_sm_ConfigRead.c, config/ssm_sm_ConfigUpdate.c
Problem Description: A trace message indicating the System Manager has entered a function to manipulate configuration tables.
System Action: None.
Administrator Action: None, informational.

SSMS0151 **Entering function '<name of System Manager function>' ServerID <server id> MOClass <managed object type>**

Message Identity: SSM_SM_MSG_TRACE_ENTER_MO
Source Files Generating Error Message: attr/ssm_sm_AttrGet.c, attr/ssm_sm_AttrReg.c, attr/ssm_sm_AttrSet.c, attr/ssm_sm_attr_get.c, attr/ssm_sm_attr_reg.c, attr/ssm_sm_attr_set.c
Problem Description: A trace message indicating the System Manager is entering a function dealing with managed objects.
System Action: None.
Administrator Action: None, informational.

SSMS0152 **Import thread number <thread number> processing cartridge '<cartridge name>'**

Message Identity: SSM_SM_MSG_TRACE_IMPORT
Source Files Generating Error Message: wrapper/w_ssm_CartImport.c
Problem Description: The System Manager was unable to export the specified cartridge.
System Action: None.
Administrator Action: None, informational.

SSMS0153 **Entering sm_process_notification for '<name of the System Manager notification function>'**

Message Identity: SSM_SM_MSG_TRACE_NOTIFY_RECEIVE
Source Files Generating Error Message: misc/ssm_sm_log.c, notify/ssm_sm_process_notification.c
Problem Description: A trace message indicating the System Manager has received the specified notification and has entered the general processing function for notifications.
System Action: None
Administrator Action: None, informational

SSMS0154 **Server <server id> type <server type> name '<server descriptive>' uuid '<server uuid>'**

Message Identity: SSM_SM_MSG_TRACE_SERVERS
Source Files Generating Error Message: adm/ssm_sm_adm_server_config.c
Problem Description: A trace message containing an entry from the System Manager’s server list. The server type values are those defined in ssm_defs.idl.
System Action: None
Administrator Action: None, informational

SSMS0156 **Unexpected SSM '<SSM name>' found in server table**

Message Identity: SSM_SM_MSG_UNEXPECTED_SSM
Source Files Generating Error Message: adm/ssm_sm_adm_server_config.c

Problem Description: An SSM entry has been found in the server configuration table that does not match the descriptive name specified in the environment.
System Action: The System Manager will ignore the entry. If another entry which does match the values from the environment cannot be found, the System Manager will create a new entry just as it did the first time it was executed after initial HPSS installation.
Administrator Action: Use the configuration screens to remove the extra entry.

SSMS0157 Unsolicited notification: Server <internal id of the server that sent the notification>, Object <object class> (<registration bitmap that the System Manager has registered with the server>)

Message Identity: SSM_SM_MSG_UNSOL_NOTIFY
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: The System Manager has received a notification from a server for which it has not registered.
System Action: The System Manager will attempt to straighten out the registration with the server.
Administrator Action: If lots of the messages appear over a short time then it may be necessary to recycle the System Manager to clear up the registrations. If they persist then recycle the server causing the notifications.

SSMS0158 uuid_equal returned error '<error number>'

Message Identity: SSM_SM_MSG_UUID_EQUAL_ERR
Source Files Generating Error Message: misc/ssm_sm_find_server_by_uuid.c
Problem Description: The server could not be located using the uuid supplied. The uuid was not found in the server list.
System Action: None
Administrator Action: Verify the uuid is valid.

SSMS0159 Cannot convert uuid from string, error: '<error message>'

Message Identity: SSM_SM_MSG_UUID_FROM_STRING_ERR
Source Files Generating Error Message: misc/ssm_sm_build_object_id.c
Problem Description: The string does not contain a valid uuid.
System Action: The request will fail.
Administrator Action: Verify that the uuid string contains valid characters and is formatted with the correct number of characters and dashes. A valid uuid may contain the numbers *0* through *9* and the letters *a* through *f*. A valid uuid contains 8 characters, a dash, 4 characters, a dash, 4 characters, a dash, 4 characters, a dash, and 12 characters; for example: 259d1696-cc44-01d8-a102-0c27a9b2aa77.

SSMS0160 The specified physical volume is not allocated to any Core Server

Message Identity: SSM_SM_MSG_VOL_NOT_ALLOCATED
Source Files Generating Error Message: misc/ssm_sm_build_object_id.c
Problem Description: There is no Core Server that owns the specified physical volume.

System Action: None
Administrator Action: Verify that the correct physical volume has been specified or add the physical volume to a storage class.

SSMS0161 Bad data! The stripe length needs to be greater than 0!

Message Identity: SSM_SM_MSG_ZERO_STRIPE_LENGTH
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An attempt to set a storage class configuration's Stripe Length field value to zero has failed. The Stripe Length field value must be a number greater than zero.
System Action: The request will fail. The storage class configuration cannot be saved.
Administrator Action: Change the stripe length field value to a number greater than zero.

SSMS0162 Bad data! The stripe width needs to be greater than 0!

Message Identity: SSM_SM_MSG_ZERO_STRIPE_WIDTH
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An attempt to set a storage class configuration's Stripe Width field value to zero has failed. The Stripe Width field value must be a number greater than zero.
System Action: The request will fail. The storage class configuration cannot be saved.
Administrator Action: Change the stripe width field value to a number greater than zero.

SSMS0163 Bad data! The transfer rate needs to be greater than 0!

Message Identity: SSM_SM_MSG_ZERO_TRANSFER_RATE
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An attempt to a the storage class configuration's Transfer Rate field value to zero has failed. The Transfer Rate field value must be a number greater than zero.
System Action: The request will fail. The storage class configuration cannot be saved.
Administrator Action: Change the transfer rate field value to a number greater than zero.

SSMS0164 The SSM System Manager client table is full. There are <number of clients> clients currently connected.

Message Identity: SSM_SM_MSG_CLIENT_TABLE_FULL
Source Files Generating Error Message: adm/ssm_sm_adm_register_sm.c
Problem Description: The System Manager's client table is full. There are no empty slots in the System Manager's active client table.
System Action: No more clients will be able to connect to the System Manager until entries in the client table become free.

Administrator Action: To free entries in the client table, exit one or more active client sessions.

SSMS0165 Error returned from dmg_admin_FilesetCreate

Message Identity: SSM_SM_MSG_DMG_FILESET_CREATE
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: SSM got an error from dmg_admin_FilesetCreate when creating an XDSM fileset. When creating XDSM filesets, the SSM System Manager calls the DMAP Gateway interface called dmg_admin_FilesetCreate() which returned the error code associated with this log. This error means that the System Manager wasn't able to create the XDSM fileset. Check for error logs from the DMAP Gateway for further information.
System Action: The request will fail. The fileset will not be created.
Administrator Action: Check for error logs from the DMAP Gateway for further information.

SSMS0166 No application data for operation '<operation>', client <client id>

Message Identity: SSM_SM_NO_APPLICATION_DATA
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: A client request has been received with no associated data to act upon.
System Action: Log a CRITICAL alarm and return an EACCESS error to the client.
Administrator Action: Try request again. If failure persists, contact HPSS Technical Support.

SSMS0167 initgroups('<username>', <gid>) failed (errno = <error>)

Message Identity: SSM_SM_MSG_INITGROUPS_FAIL
Source Files Generating Error Message: misc/ssm_sm_doforkexec.c
Problem Description: SSM could not initialize the groups for user <username>. The SSM System Manager must be executed as root, but it executes utilities such as accounting as a non-privileged user. The default non-privileged id it uses is "hpss"; this can be overridden by the value of the HPSS_USER environment variable. This error means the System Manager could not execute the initgroups function because the System Manager was not running as user root when the function was called.
System Action: The request will fail.
Administrator Action: Make sure that the System Manager is running as root.

SSMS0168 Client <client id> mode insufficient for operation '<operation>'

Message Identity: SSM_SM_CLIENT_INSUFFICIENT_MODE
Source Files Generating Error Message: misc/ssm_sm_enter_api.c
Problem Description: Client is connected as an operator attempting an operation that requires administrator access.
System Action: Log a MAJOR alarm and return an EACCESS error to the client.
Administrator Action: Log in as an administrator (rather than as an operator) to complete this operation.

SSMS0169 Bad data! The calculated seconds between tape marks overflowed 32 bits!

Message Identity: SSM_SM_MSG_BAD_SEC_BTW_MARKS
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: The System Manager had an overflow problem calculating the *Tape Storage Class Configuration* window Seconds Between Tape Marks field.
System Action: Log a CRITICAL alarm and return no error to the client. Client will see incorrect data in the Seconds Between Tape Marks field.
Administrator Action: The *Tape Storage Class Configuration* window Seconds Between Tape Marks field is calculated based on the following formula: (TapeMarks * MediaBlockSize) / ((TransferRate / StripeWidth) * 1024). Verify that the other fields on the window have valid data. Contact HPSS Technical Support.

SSMS0170 Invalid argument passed to function, client <client id>

Message Identity: SSM_SM_MSG_INVALID_ARG_CLIENT
Source Files Generating Error Message: misc/ssm_sm_util.c
Problem Description: The client ID is invalid.
System Action: Log a DEBUG alarm and return an EINVAL error to the client.
Administrator Action: Try request again. If failure persists, contact HPSS Technical Support.

SSMS0171 No subsystems are configured; a subsystem and Core Server must exist to reload the Restricted Users List

Message Identity: SSM_SM_MSG_RSTRCTUSR_NO_SUBSYS
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: No storage subsystems are configured. The Restricted User feature requires at least one storage subsystem to be completely configured.
System Action: Log an alarm and return an ENOENT error to the client.
Administrator Action: Verify that a storage subsystem is configured.

SSMS0172 No servers are configured; a Core Server must exist to reload the Restricted Users List

Message Identity: SSM_SM_MSG_RSTRCTUSR_NO_SERVER
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: No servers are configured. The Restricted User feature requires at least one Core Server to be configured.
System Action: Log an alarm and return an ENOENT error to the client.
Administrator Action: Verify that a Core Server is configured.

SSMS0173 The Core Server in Storage Subsystem ID '<subsystem id>' was unable to read the restricted user file

Message Identity: SSM_SM_MSG_FUNC_FAIL_SUBSYS_CS
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: The Core Server in the specified storage subsystem wasn’t able to read the restricted user file.

System Action: Log an alarm and return the hpss_ReadRestrictedUserFile Client API return code to the client.
Administrator Action: Verify that the Core Server in the specified storage subsystem is running and has access to the HPSS_RESTRICTED_USER_FILE. Verify that the Location Server and Gatekeeper (if configured) are also running.

SSMS0174 **None of the Core Servers were able to read the restricted user file; verify that all Core Servers are running, that the Location Server is running, and that the HPSS_RESTRICTED_USER_FILE has been properly configured**

Message Identity: SSM_SM_MSG_RSTRCTUSR_NOREADALL
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: All the Core Servers weren't able to read the restricted user file.
System Action: Log an alarm and return the last hpss_ReadRestrictedUserFile Client API return code to the client. (This API is called for each Core Server.)
Administrator Action: Verify that the Core Servers are running and have access to the HPSS_RESTRICTED_USER_FILE. Verify that the Location Server and Gatekeeper (if configured) are also running. Verify that the HPSS_RESTRICTED_USER_FILE has been properly configured for each Core Server. Note: If Core Servers reside on different machines, each machine needs to have the HPSS_RESTRICTED_USER_FILE configured.

SSMS0175 **'<count>' storage subsystem(s) were unable to read the restricted user file; verify that all Storage Subsystems have a Core Server, all Core Servers are running, the Location Server is running, and the HPSS_RESTRICTED_USER_FILE has been properly configured.**

Message Identity: SSM_SM_MSG_RSTRCTUSR_NOREADSOME
Source Files Generating Error Message: misc/ssm_sm_api.c
Problem Description: Some of the Core Servers weren't able to read the restricted user file.
System Action: Log an alarm and return the last hpss_ReadRestrictedUserFile Client API return code to the client. (This API is called for each Core Server.) Report the total number of storage subsystems that were unable to read the restricted user file.
Administrator Action: Verify that the Core Servers are running and have access to the HPSS_RESTRICTED_USER_FILE. Verify that the Location Server and Gatekeeper (if configured) are also running. Verify that the HPSS_RESTRICTED_USER_FILE has been properly configured for each Core Server. Note: If Core Servers reside on different machines, each machine needs to have the HPSS_RESTRICTED_USER_FILE configured.

SSMS0176 **<error obtaining value>**

Message Identity: SSM_SM_MSG_ERROR_TEXT
Source Files Generating Error Message: adm/ssm_sm_adm_build_restrict_user.c
Problem Description: The System Manager was unable to lookup the user name or realm name for a particular user ID or realm ID.

System Action: Display some default text in the Restricted User screen for users and or realms for which the System Manager was unable to obtain.
Administrator Action: Verify that the user and/or realm entered into the HPSS_RESTRICTED_USER_FILE are valid and properly configured.

SSMS0177 Unable to obtain the Restricted User list; verify that the Root Core Server and Location Server are both running

Message Identity: SSM_SM_MSG_RSTRCTUSR_GET_ERR
Source Files Generating Error Message: adm/ssm_sm_adm_build_restrict_user.c
Problem Description: The System Manager was unable to obtain the restricted user list.
System Action: Log an alarm and return the hpss_GetRestrictedUserList Client API return code to the client.
Administrator Action: Verify that the Root Core Server is running and has access to the HPSS_RESTRICTED_USER_FILE. Verify that the Location Server and Gatekeeper (if configured) are also running.

SSMS0178 Unable to get the trusted realm using RealmID '<numeric realm id>'

Message Identity: SSM_SM_MSG_GET_REALM_ERR
Source Files Generating Error Message: adm/ssm_sm_adm_build_restrict_user.c
Problem Description: The System Manager was unable to lookup the realm name for a particular realm ID.
System Action: Log an alarm and return the hpss_SECGetTrustedRealmById API return code to the client. The System Manager then won’t be able to translate the user ID into the user name.
Administrator Action: Verify that the default realm or the realm entered into the HPSS_RESTRICTED_USER_FILE is valid and properly configured.

SSMS0179 Unable to get the user credentials for UserID '<numeric user id>'

Message Identity: SSM_SM_MSG_GET_USERCRED_ERR
Source Files Generating Error Message: adm/ssm_sm_adm_build_restrict_user.c
Problem Description: The System Manager was unable to lookup the user name for a particular user ID.
System Action: Log an alarm and return the hpss_SECGetCredsByUid__API return code to the client.
Administrator Action: Verify that the user ID entered into the HPSS_RESTRICTED_USER_FILE is valid and properly configured.

SSMS0180 Request to the PVL to create drive '<drive id>' failed

Message Identity: SSM_SM_MSG_PVL_CREATEDRIVE_FAIL
Source Files Generating Error Message: config/ssm_sm_cf_drive_create.c
Problem Description: The System Manager made a request to the PVL to create the specified device/drive, but the PVL was unable to create the device/drive.
System Action: The device/drive wasn’t created.

Administrator Action: Review error logs. Verify that input data is correct. Verify that the same device/drive doesn't already exist. Verify that the device/drive associated Mover and PVR (for tape) are configured.

SSMS0181 Request to the PVL to delete drive '<drive id>' failed

Message Identity: SSM_SM_MSG_PVL_DELETEDRIVE_FAIL
Source Files Generating Error Message: config/ssm_sm_cf_drive_delete.c
Problem Description: The System Manager made a request to the PVL to delete the specified device/drive, but the PVL was unable to delete the device/drive.
System Action: The device/drive wasn't deleted.
Administrator Action: Review error logs. Verify that the device/drive exists. Verify that the PVL is running and the System Manager can successfully communicate with the PVL. Verify that the drive is locked and not in use.

SSMS0182 Rebuilding the Device and Drive list to recover metadata possibly created during the failed attempt to create drive '<drive id>'

Message Identity: SSM_SM_MSG_CREATEDRIVE_RECOVER
Source Files Generating Error Message: config/ssm_sm_ConfigAdd.c
Problem Description: The System Manager made a request to the PVL to create the specified device/drive, but the PVL was unable to honor the request and return an error other than *Busy* or *Exist*.
System Action: In some error cases the PVL might have created the device/drive metadata, so the System Manager rebuilds the Device and Drive list by reading up the metadata.
Administrator Action: Most likely the list won't change. If the drive wasn't created, look at Administrative Actions for item SSMS0180 above.

SSMS0183 Rebuilding the Device and Drive list to resynchronize with metadata possibly deleted during the failed attempt to delete drive '<drive id>'

Message Identity: SSM_SM_MSG_DELETEDRIVE_RECOVER
Source Files Generating Error Message: config/ssm_sm_ConfigDelete.c
Problem Description: The System Manager made a request to the PVL to delete the specified device/drive, but the PVL was unable to honor the request and return an error other than *Busy* or *Exist*.
System Action: In some error cases the PVL might have deleted the device/drive metadata, so the System Manager rebuilds the Device and Drive list by reading up the metadata.
Administrator Action: Most likely the list won't change. If the drive wasn't deleted, look at Administrative Actions for item SSMS0181 above.

SSMS0184 Unable to create drive '<drive id>' due to PVL being down; PVL must be UP

Message Identity: SSM_SM_MSG_CREATEDRIVE_PVLDOWN
Source Files Generating Error Message: config/ssm_sm_cf_drive_create.c
Problem Description: The System Manager was unable to create the specified device/drive because the PVL appeared to be down to the System Manager.

System Action: The System Manager must be able to communicate with the PVL to make the device/drive creation request, so the drive won't be created if the PVL is down (or appears to be down to the System Manager).
Administrator Action: Verify that the PVL is running and that the System Manager can communicate with it.

SSMS0185 Unable to delete drive '<drive id>' due to PVL being down; PVL must be UP

Message Identity: SSM_SM_MSG_DELETEDRIVE_PVLDOWN
Source Files Generating Error Message: config/ssm_sm_cf_drive_delete.c
Problem Description: The System Manager was unable to delete the specified device/drive because the PVL appeared to be down to the System Manager.
System Action: The System Manager must be able to communicate with the PVL to make the device/drive deletion request, so the drive won't be deleted if the PVL is down (or appears to be down to the System Manager).
Administrator Action: Verify that the PVL is running and that the System Manager can communicate with it.

SSMS0186 Failed to initialize the RTM server list, error=<error>

Message Identity: SSM_SM_MSG_RTM_INIT_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_build_rtm.c
Problem Description: The call to the RTM library rtm_InitServerList function has failed
System Action: The system Manager will continue to run. The RTM Summary and/or RTM Detail features in SSM may not function properly.
Administrator Action: Verify that the RTM command line utility (rtmu) works. A recycle of the System Manager may be needed.

SSMS0187 Failed to add server '<server name>' to the RTM server list, error=<error>

Message Identity: SSM_SM_MSG_RTM_SRV_ADD_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_build_rtm.c
Problem Description: The call to the RTM library rtm_AddServerByDescName function has failed.
System Action: The System Manager will continue to run. The HPSS server specified in *<server name>* will not be included in the RTM information displayed.
Administrator Action: Check to be sure that the *<server name>* listed in the error message is a valid HPSS server and that the server is running.

SSMS0188 Call to rtm_GetRequestSummary failed, error=<error>

Message Identity: SSM_SM_MSG_RTM_GET_REQ_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_build_rtm.c
Problem Description: The call to the RTM library rtm_GetRequestSummary function has failed.
System Action: The System Manager will continue to run. The SSM will not be able to provide RTM summary information to the user.

Administrator Action: Verify that the RTM command line utility (rtmu) works. A recycle of the System Manager may be needed.

SSMS0189 Failed to initialize the RTM log, error=<error>

Message Identity: SSM_SM_MSG_RTM_LOG_INIT_FAIL
Source Files Generating Error Message: adm/ssm_sm_init.c
Problem Description: The call to the RTM library rtm_LogInit function has failed.
System Action: The System Manager will exit.
Administrator Action: Verify that the RTM command line utility (rtmu) works. Contact HPSS Technical Support. This is an internal error.

SSMS0190 <timestamp string>

Message Identity: SSM_SM_MSG_TIMESTAMP
Source Files Generating Error Message: misc/ssm_sm_log.c
Problem Description: When the HPSS_SSM_TIMING_DEBUG environment variable is set to 1 (it's not set by default), the System Manager will add some event logs that include timing information. Currently just the System Manager code building the drive list makes use of this.
System Action: None, off by default.
Administrator Action: None, informational. This is generally just useful for the System Manager code developers.

SSMS0191 CHECK CONFIG: Device/Drive configuration mismatch; can't find mover device corresponding to pvl drive=<drive id>

Message Identity: SSM_SM_MSG_DEVICE_MISSING
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c
Problem Description: While the System Manager was building the device/drive list by reading up the Mover Device and PVL Drive metadata, the System Manager found a PVL Drive record that didn't have a corresponding Mover Device record.
System Action: The System Manager will continue building the Devices and Drives list, but the <drive id> indicated in the error message won't be usable.
Administrator Action: Fix this device/drive; delete it and recreate it.

SSMS0192 CHECK CONFIG: Device/Drive configuration mismatch; can't find pvl drive corresponding to mover device=<device id>

Message Identity: SSM_SM_MSG_DRIVE_MISSING
Source Files Generating Error Message: adm/ssm_sm_adm_build_drive.c
Problem Description: While the System Manager was building the device/drive list by reading up the Mover Device and PVL Drive metadata, the System Manager found a Mover Device record that didn't have a corresponding PVL Drive record.
System Action: The System Manager will continue building the Devices and Drives list, but the <device id> indicated in the error message won't be usable.
Administrator Action: Fix this device/drive; delete it and recreate it.

SSMS0193 Initiating cartridge move for '<count>' cartridge(s) to PVR '<pvr name>'

Message Identity: SSM_SM_MSG_CART_MOVE_START
Source Files Generating Error Message: wrapper/w_ssm_CartMove.c
Problem Description: The System Manager is informing the administrators that a cartridge move of <count> cartridge(s) was initiated to the specified PVR.
System Action: The System Manager will initiate each cartridge move to the specified PVR.
Administrator Action: Monitor the cartridge move. See SSM0194, SSM0195 and SSM0196.
Also check for any PVL and PVR messages that describe specifics about the cartridge moves.

SSMS0194 Completed cartridge move for '<count>' of '<total>' cartridge(s) to PVR '<pvr name>'

Message Identity: SSM_SM_MSG_CART_MOVE_DONE
Source Files Generating Error Message: wrapper/w_ssm_CartMove.c
Problem Description: The System Manager is informing the administrators that a cartridge move for <count> of <total> cartridge(s) has completed to the specified PVR.
System Action: The System Manager has stopped processing the move of list of cartridges.
Administrator Action: Monitor the cartridge move; retry any failures after verifying that the cartridge has been injected into the destination PVR. See SSM0193, SSM0195 and SSM0196.
Also check for any PVL and PVR messages that describe specifics about the cartridge moves.

SSMS0195 Error moving cartridge '<cartridge name>' to PVR '<pvr name>'; verify that the cartridge has manually been injected into the destination PVR and then retry

Message Identity: SSM_SM_MSG_CART_MOVE_FAIL
Source Files Generating Error Message: wrapper/w_ssm_CartMove.c
Problem Description: An error occurred while moving the specified cartridge to the specified PVR.
System Action: The System Manager quits processes the list of cartridge moves whenever one fails.
Administrator Action: Verify that the failed cartridge has manually been injected into the destination PVR and then retry. Additionally, retry the list of unprocessed cartridge moves. See SSM0193, SSM0194 and SSM0196.

SSMS0196 Move of cartridge '<cartridge name>' to PVR '<pvr name>' was not attempted due the problem moving cartridge '<problem cartridge name>'; please retry

Message Identity: SSM_SM_MSG_CART_MOVE_SKIP
Source Files Generating Error Message: wrapper/w_ssm_CartMove.c
Problem Description: An error occurred while moving the specified problem cartridge to the specified PVR. This caused the move operation to abort, resulting in the specified cartridge not having the move operation attempted.

System Action: The System Manager quits processes the list of cartridge moves whenever one fails.
Administrator Action: Retry. See SSM0193, SSM0194 and SSM0195.

SSMS0197 **Unable to obtain the Fileset list; verify that the Location Server and Core Servers are running; status <status> from <function>**

Message Identity: SSM_SM_MSG_FILESET_LIST_ALL_FAIL
Source Files Generating Error Message: adm/ssm_sm_adm_build_fs_and_junc.c
Problem Description: The System Manager was unable to generate the Fileset list because the call to the client API <function> failed with a status <status>. The <function> name normally would be the hpss_FilesetListAll client API function.
System Action: The System Manager will return an empty Fileset and Junction list to the caller.
Administrator Action: Make sure the that the Location Server and Core Servers are running and that the System Manager is able to communicate with them.

SSMS0198 **Unable to obtain the Junction list; verify that the Location Server and Core Servers are running; status <status> from <function> for subsystem <id>**

Message Identity: SSM_SM_MSG_GET_JUNCTIONS_FAILED
Source Files Generating Error Message: adm/ssm_sm_adm_build_fs_and_junc.c
Problem Description: The System Manager was unable to obtain the Junction list for the subsystem <id> because the call to the client API <function> failed with a status <status>. The <function> name normally would be the hpss_GetJunctions client API function.
System Action: The Fileset and Junction list returned by the System Manager will not contain junction information for the specified subsystem <id>.
Administrator Action: Make sure the that the Location Server and Core Server for the specified subsystem <id> are running and that the System Manager is able to communicate with them. It could be that the subsystem <id> has been defined in the HPSS configuration but that no Core Server has been configured for the subsystem. In this case, it may be necessary to delete the subsystem <id> configuration.

SSMS0199 **Unable to obtain the Junction attributes; verify that the Location Server and Core Servers are running; status <status> from <function> for junction '<junction name>'**

Message Identity: SSM_SM_MSG_GET_JUNC_ATTR_FAILED
Source Files Generating Error Message: adm/ssm_sm_adm_build_fs_and_junc.c
Problem Description: The System Manager was unable to obtain the attributes for the junction '<junction name>' because the call to the client API <function> failed with a status <status>. The <function> name normally would be the hpss_FileGetAttributesHandle client API function.
System Action: The System Manager will not be able to fill in the attributes for the junction '<junction name>'.
Administrator Action: Make sure the that the Location Server and Core Servers are running and that the System Manager is able to communicate with them.

SSMS0200 Unable to obtain the Fileset attributes; verify that the Location Server and Core Servers are running; status <status> from <function> for fileset '<fileset name>'

Message Identity: SSM_SM_MSG_GET_FS_ATTR_FAILED
Source Files Generating Error Message: adm/ssm_sm_adm_build_fs_and_junc.c
Problem Description: The System Manager was unable to obtain the attributes for the fileset '<fileset name>' because the call to the client API <function> failed with a status <status>. The <function> name normally would be the hpss_FilesetGetAttributes client API function.
System Action: The System Manager will return an empty Fileset and Junction list to the caller.
Administrator Action: Make sure the that the Location Server and Core Servers are running and that the System Manager is able to communicate with them.

SSMS0204 Expected disk storage class (type <type Id>) but received type <type Id>

Message Identity: SSM_SM_MSG_ENOT_DISK_SCLASS
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An attempt was made to convert a storage class to a disk storage class but the storage class is not a disk storage class.
System Action: The request will fail. The storage class configuration cannot be saved.
Administrator Action: When operating on or requesting a disk storage class, ensure that the identifier is in fact an identifier for a disk storage class.

SSMS0205 Expected tape storage class (type <type Id>) but received type <type Id>

Message Identity: SSM_SM_MSG_ENOT_TAPE_SCLASS
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An attempt was made to convert a storage class to a tape storage class but the storage class is not a tape storage class.
System Action: The request will fail. The storage class configuration cannot be saved.
Administrator Action: When operating on or requesting a tape storage class, ensure that the identifier is in fact an identifier for a tape storage class.

SSMS0206 Bad data! The storage segment size cannot be 0!

Message Identity: SSM_SM_MSG_ZERO_STORAGE_SEGMENT_SIZE
Source Files Generating Error Message: misc/ssm_sm_convert_extended.c
Problem Description: An attempt to determine the Maximum Storage Segment Size Multiplier for a disk storage class has failed because the Storage Segment Size is zero. The Storage Segment Size cannot be zero.
System Action: The request will fail. The storage class configuration cannot be saved.
Administrator Action: Ensure that the Storage Segment Size is not zero.

SSMS0207 Initiating import for '<count>' volumes(s)

Message Identity: SSM_SM_MSG_CART_IMPORT_START
Source Files Generating Error Message: wrapper/w_ssm_CartImport.c
Problem Description: The System Manager is informing the administrators that a volume import of <count> cartridge(s) was initiated.
System Action: The System Manager will initiate each volume import.
Administrator Action: Monitor the volume import. See SSM0208 and SSM0212. Also check for any PVL and PVR messages that describe specifics about the volume imports.

SSMS0208 Completed import for '<count>' of '<total>' volumes(s)

Message Identity: SSM_SM_MSG_CART_IMPORT_COMPL
Source Files Generating Error Message: wrapper/w_ssm_CartImport.c
Problem Description: The System Manager is informing the administrators that an import for <count> of <total> volumes(s) has completed.
System Action: The System Manager has completed processing the import of the list of volumes.
Administrator Action: Monitor the volume imports; retry any failures. See SSM0212.
Also check for any PVL and PVR messages that describe specifics about the volume imports.

SSMS0209 Initiating export for '<count>' volumes(s)

Message Identity: SSM_SM_MSG_CART_EXPORT_START
Source Files Generating Error Message: wrapper/w_ssm_CartExport.c
Problem Description: The System Manager is informing the administrators that a volume export of <count> cartridge(s) was initiated.
System Action: The System Manager will initiate each volume export.
Administrator Action: Monitor the volume export. See SSM0210 and SSM0211. Also check for any PVL and PVR messages that describe specifics about the volume exports.

SSMS0210 Completed export for '<count>' of '<total>' volumes(s)

Message Identity: SSM_SM_MSG_CART_EXPORT_COMPL
Source Files Generating Error Message: wrapper/w_ssm_CartExport.c
Problem Description: The System Manager is informing the administrators that an export for <count> of <total> volumes(s) has completed.
System Action: The System Manager has completed processing the export of the list of volumes.
Administrator Action: Monitor the volume exports; retry any failures. See SSM0211.
Also check for any PVL and PVR messages that describe specifics about the volume exports.

SSMS0211 Call to pvl_Export for volume '<volume>' has completed with status '<status>'

Message Identity: SSM_SM_MSG_CART_EXPORT_STAT

Source Files Generating Error Message: wrapper/w_ssm_CartExport.c
Problem Description: This is a System Manager debug message that shows the status returned from the pvl_Export function for each cartridge export attempt.
System Action: None.
Administrator Action: Check for any PVL and PVR messages that describe specifics about the cartridge export.

SSMS0212 Call to pvl_Import for volume '<volume>' has completed with status '<status>'

Message Identity: SSM_SM_MSG_CART_IMPORT_STAT
Source Files Generating Error Message: wrapper/w_ssm_CartImport.c
Problem Description: This is a System Manager debug message that shows the status returned from the pvl_Import function for each cartridge import attempt.
System Action: None.
Administrator Action: Check for any PVL and PVR messages that describe specifics about the cartridge import.

SSMS0213 Call to pvl_Move for volume '<volume>' has completed with status '<status>'

Message Identity: SSM_SM_MSG_CART_MOVE_STAT
Source Files Generating Error Message: wrapper/w_ssm_CartMove.c
Problem Description: This is a System Manager debug message that shows the status returned from the pvl_Move function for each cartridge move attempt.
System Action: None.
Administrator Action: Check for any PVL and PVR messages that describe specifics about the cartridge move.

Chapter 20. Startup Daemon Error Messages (SUDD Series)

SUDD0001 Server is already running

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The startup daemon has tried to start a server that is already running.
System Action: The server will not start.
Administrator Action: This message will appear if you tried to start a server that is already running. If you need to restart an errant server, you must kill it first. It may take some time for the server to die, in which case you will not be able to start a new server until the old one goes away. If after waiting, you still cannot kill an old server and start a new one, log into the host where the server is running and kill it using the KILL command. If all else fails, restart the Startup Daemon.

SUDD0002 Cannot change owner of lock file <name>

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: A lock file for the server being started already existed, but the startup daemon was unable to change the owner to the new server.
System Action: Some lock file operations may not complete successfully.
Administrator Action: Make sure the permissions are correctly set on the lock file and the parent directories. If necessary, kill the server, delete the lock file, and restart the server.

SUDD0003 Unable to allocate server table linked list entry

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: There was insufficient memory to allocate an entry in the table that keeps track of servers that have been started. Should never happen.
System Action: An HPSS server will not be started.
Administrator Action: The system is probably running low on resources. Fix the problem.

SUDD0004 Cannot start server; setuid, setgid, or initgroups failed

Source Files Generating Error Message: hpss_StartServer.c
Problem Description: The Startup Daemon could not execute the setuid, setgid, or initgroups system call.
System Action: The Startup Deamon cannot change the Unix identity of a server, and as a result, it will not be able to run the server.
Administrator Action: Make sure the Startup Daemon is running as root and that there are entries in the system files for the server’s user name and groups.

SUDD0005 Cannot start server; no such unix user <name>

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The Startup Daemon tried to start the HPSS server using the UNIX user name <name>, but could not find that user in /etc/passwd.
System Action: The server will not be started.
Administrator Action: Check that the UNIX user name field in the configuration file for this server contains the correct value. Also check /etc/passwd on the machine where the HPSS server is to be run to verify that the UNIX user name exists.

SUDD0006 Server <server> died on host <host>, pid = <pid>, exit status = <status>

Source Files Generating Error Message: hpssd_Main.c
Problem Description: One of the HPSS servers has died. The server's descriptive name is given by <server>; the host it was running on is given by <host>; the process ID is given by <pid>; and the exit status for the process is given by <status>.
System Action: This message appears when an HPSS server dies.
Administrator Action: This message will occur as part of a normal shutdown, in which case the message can be ignored. If the server shut itself down gracefully, look for other messages in the log file to see what caused the shutdown. On the other hand, if the server crashed, this may be the only message in the log file. The exit status may give a clue as to what caused the crash.

SUDD0007 Startup daemon internal problem: sigwait

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The Startup Daemon tried to handle an unexpected signal, which should actually never happen. This error probably indicates a coding error.
System Action: None.
Administrator Action: None.

SUDD0008 Unexpected server died, pid = <pid>

Source Files Generating Error Message: hpssd_Main.c
Problem Description: An unexpected server died. This probably indicates that several copies of a particular server have been started, and that one of the older servers has died.
System Action: None.
Administrator Action: None.

SUDD0009 exec() failed

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The Startup Daemon tried to start a server, but the exec system call failed.
System Action: The server will not be started.
Administrator Action: Check that the executable exists. Check that the entire directory path to the executable is accessible to the uid and/or gid that the server will be using. For more information, check the value of the status field in the log message against the errno values that the exec system call returns.

SUDD0010 Starting server <server> on host <host>

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: This message is informational and will occur every time a server is started. It does not indicate an error.
System Action: The server is started.
Administrator Action: None.

SUDD0011 Problem locking or unlocking mutex

Source Files Generating Error Message: hpssd_StartServer.c, hpssd_CheckServerRunning.c
Problem Description: Could not lock or unlock a mutex. This should not normally happen.
System Action: The server will not be started.
Administrator Action: Try to start the server again. The problem may be temporary. If the problem persists, check the value of the status field in the log message against the errno values returned by the pthread_mutex_lock or pthread_mutex_unlock calls. You may need to restart the Startup Daemon.

SUDD0012 Fork failed

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The fork system call failed. This should not normally happen.
System Action: The server will not be started.
Administrator Action: Check the value of the status field in the log message against the errno values returned by the fork system call. You may need to restart the Startup Daemon.

SUDD0013 Startup daemon is up and running

Source Files Generating Error Message: hpssd_Main.c
Problem Description: This message is informational and will occur every time the Startup Daemon is restarted. It does not indicate an error.
System Action: The Startup Daemon is available to start servers.
Administrator Action: None.

SUDD0014 Server <name> died on host <hostname>, pid = <pid>, signal number = <s>

Source Files Generating Error Message: hpssd_Main.c
Problem Description: An HPSS server died because it was sent a signal. In many cases, this is because the server has found a problem and decided to shut itself down.
System Action: The specified server has stopped running. Depending on the signal, the startup daemon may or may not try to restart the server.
Administrator Action: Check the value of the status field in the message log for the errno to determine why the server shut down. Try to fix the problem, then restart the server.

SUDD0015 Server <name> died on host <hostname>, pid = <pid>, stop signal = <s>

Source Files Generating Error Message: hpssd_Main.c
Problem Description: An HPSS server died because it was sent a stop signal. This should never happen.
System Action: The specified server has stopped running. The startup daemon will try to restart it.
Administrator Action: If server still is not running, restart it.

SUDD0016 Server <name> died on host <hostname>, pid = <pid>, status code = <c>

Source Files Generating Error Message: hpssd_Main.c
Problem Description: An HPSS server died because it called exit.
System Action: Depending on the exit code, the startup daemon may try to restart the server.
Administrator Action: Check the value of the status field in the message log for the errno to determine why the server shut down. Try to fix the problem, then restart the server.

SUDD0017 Cannot open lock file

Source Files Generating Error Message: hpssd_GetServerFromLockfile.c
Problem Description: The lock file cannot be opened.
System Action: It will not be possible to start servers
Administrator Action: Check the value of the status field in the log message for the errno and determine what needs to be done. It may be that more disk space is needed in /var/hpss/tmp or that the ownership of an existing lock file needs to be changed.

SUDD0018 Descriptive name in lock file does not match file's name

Source Files Generating Error Message: hpssd_GetServerFromLockfile.c
Problem Description: There is a lock file that the startup daemon uses to determine whether an HPSS server is already running. The name of the file is taken from the descriptive name, and looks like /var/hpss/tmp/ hpssd.NNNN.DESCNAME, where NNNN is a sequence of hex digits, and DESCNAME is the server's descriptive name with blanks replaced by underscores. The startup daemon has determined that the file's name is inconsistent with the name stored in the file.
System Action: It will not be possible to start or kill servers gracefully while the corrupt file is in place.
Administrator Action: Refer to SUDD0019. You may have to rename a server or delete the lock file.

SUDD0019 Format error in lock file

Source Files Generating Error Message: hpssd_GetServerFromLockfile.c
Problem Description: There is a lock file that the startup daemon uses to determine whether an HPSS server is already running. The name of the file looks like /var/ hpss/tmp/hpssd.NNNN.DESCNAME, where NNNN is a sequence of hex digits, and DESCNAME is the server's descriptive name with blanks replaced by underscores. The startup daemon has determined that the file exists but doesn't contain the proper information.

System Action: It will not be possible to start or kill servers gracefully while the corrupt file is in place.
Administrator Action: Inspect the file. The file should contain information that looks like this:
DescName: R3 SSM System Manager
LockNum: 0
PID: 15771
Be sure that the descriptive name written in the file agrees with the file name. On very rare occasions, two servers that have different descriptive names might use the same lock file. If that happens, change the name of one of the servers. Otherwise, delete the file.

SUDD0020 There are <n> copies of server running; only one will be killed

Source Files Generating Error Message: hpssd_KillServer.c
Problem Description: The startup daemon has been told to shutdown a server but has found that there are several copies of the server running.
System Action: The last server to be started will be stopped. The others will continue to run.
Administrator Action: Once more than one copy of a server is running, you will not be able to kill the others using the SSM. The only way to kill them is to log into the machine where the server is running and use the kill command.

SUDD0021 Sending kill <signum> to server <servername> on host <hostname>

Source Files Generating Error Message: hpssd_KillServer.c
Problem Description: This is not a problem. The message appears whenever the startup daemon is trying to send a kill signal to a server.
System Action: The server will respond to the signal in the appropriate way. In most cases, the server will shut down.
Administrator Action: None.

SUDD0022 Cannot <action> file <filename>

Source Files Generating Error Message: hpssd_Main.c hpssd_StartServer.c
Problem Description: The startup daemon cannot perform the named action on the named file. Possible actions include mkdir, open, create, write, and chown. The file in question may be a log of server failures, typically /var/hpss/adm/hpssd.failed_server; or it may be a directory where HPSS core dumps are deposited, typically /var/hpss/adm/core.
System Action: The startup daemon will continue to run, but will not be able to keep track of failed servers.
Administrator Action: Check the value of the status field in the log message for the errno. Verify that /var/hpss/adm exists and has the correct permissions. Verify that /var is not full. When the problem has been resolved, restarted the startup daemon.

SUDD0023 Mutex initialization (pthread_mutex_init) failed

Source Files Generating Error Message: hpssd_Main.c

Problem Description: The startup daemon could not initialize the mutex which protects the server table.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0024 Thread creation (pthread_create) failed

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon could not create the thread which monitor the running servers.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0025 mm_Initialize failed (<error>)

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon could not initialize the metadata manager.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0026 mm_CreateAutoTranHandle failed (<error>)

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon could not create a metadata transaction handle.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0027 hpss_SECInitAuthzVector failed

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon could not the caller authorized vector.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0028 Wait on child process (waitpid) failed

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon waitpid function experienced an error while monitoring the active servers.
System Action: The startup daemon should continue processing.
Administrator Action: This message can be caused by sending an interrupt to the startup daemon, or by a programming error. Check the value of the status field in the log message for the errno and take the appropriate actions.

SUDD0029 hpss_InitServer failed

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon encountered a problem intializing itself.
System Action: The startup daemon will not start.
Administrator Action: The initialization call performs a variety of functions: gathering command line arguments, initializing the logger, MM, etc. Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0030 Core file under <directory> has been renamed to <name>

Source Files Generating Error Message: hpssd_Main.c
Problem Description: This is an informative diagnostic saying that a core file has been renamed. The message occurs whenever a server has crashed and been restarted.
System Action: The core file will be renamed.
Administrator Action: If the crash needs to be reported to HPSS software support, save the core file. Otherwise delete it so that it doesn't waste space.

SUDD0031 Problem obtaining primary authentication mechanism

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The startup daemon was unable to determine the primary authentication mechanism when starting or restarting a server.
System Action: The server will not be started.
Administrator Action: This may be caused by the environment variable HPSS_PRIMARY_AUTHN_MECH not being set. Check the value of the status field in the log message for the errno and take the appropriate action. Try to restart the server.

SUDD0032 Problem obtaining authenticator for mechanism

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The startup daemon was unable to determine the authenticator for the specified authentication mechanism when starting or restarting a server.
System Action: The server will not be started.
Administrator Action: This may be caused by the environment variable HPSS_PRIMARY_AUTHENTICATOR not being set. Check the value of the status field in the log message for the errno and take the appropriate action. Try to restart the server.

SUDD0033 Cannot start server; cannot find executable named <name>

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The startup daemon was unable to find the executable for a server.
System Action: The server will not be started.
Administrator Action: Check the value of the status field in the log message for the errno. Make sure the executable exists in the correct location. Try to restart the server.

SUDD0034 Cannot start server; access check failed for executable named <name>

Source Files Generating Error Message: hpssd_StartServer.c
Problem Description: The startup daemon was unable to access the executable for a server.
System Action: The server will not be started.
Administrator Action: Check the value of the status field in the log message for the errno. Make sure the executable has the appropriate permissions. Try to restart the server.

SUDD0035 mm_ReadServerByName failed (<error>)

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon could not read the generic server configuration.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

SUDD0036 mm_FreeAutoTranHandle failed (<error>)

Source Files Generating Error Message: hpssd_Main.c
Problem Description: The startup daemon could not free the metadata transaction handle.
System Action: The startup daemon will not start.
Administrator Action: Check the value of the status field in the log message for the errno and take the appropriate actions. Try to restart the daemon.

Appendix A. Glossary of Terms and Acronyms

ACL	Access Control List
ACSLS	Automated Cartridge System Library Software (Science Technology Corporation)
ADIC	Advanced Digital Information Corporation
accounting	The process of tracking system usage per user, possibly for the purposes of charging for that usage. Also, a log record type used to log accounting information.
AIX	Advanced Interactive Executive. An operating system provided on many IBM machines.
alarm	A log record type used to report situations that require administrator investigation or intervention.
AML	Automated Media Library. A tape robot.
AMS	Archive Management Unit
ANSI	American National Standards Institute
API	Application Program Interface
archive	One or more interconnected storage systems of the same architecture.
attribute	When referring to a managed object, an attribute is one discrete piece of information, or set of related information, within that object.
attribute change	When referring to a managed object, an attribute change is the modification of an object attribute. This event may result in a notification being sent to SSM, if SSM is currently registered for that attribute.
audit (security)	An operation that produces lists of HPSS log messages whose record type is SECURITY. A security audit is used to provide a trail of security-relevant activity in HPSS.
bar code	An array of rectangular bars and spaces in a predetermined pattern which represent alphanumeric information in a machine readable format (e.g., UPC symbol)
BFS	HPSS Bitfile Service.
bitfile	A file stored in HPSS, represented as a logical string of bits unrestricted in size or internal structure. HPSS imposes a size limitation in 8-bit bytes based upon the maximum size in bytes that can be represented by a 64-bit unsigned integer.
bitfile segment	An internal metadata structure, not normally visible, used by the Core Server to map contiguous pieces of a bitfile to underlying storage.
Bitfile Service	Portion of the HPSS Core Server that provides a logical abstraction of bitfiles to its clients.
BBTM	Blocks Between Tape Marks. The number of data blocks that are written to a tape virtual volume before a tape mark is required on the physical media.
CAP	Cartridge Access Port
cartridge	A physical media container, such as a tape reel or cassette, capable of being mounted on and dismounted from a drive. A fixed disk is technically considered to be a cartridge because it meets this definition and can be logically mounted and dismounted.

central log The main repository of logged messages from all HPSS servers enabled to send messages to the Log Client. The Log Client forwards messages to the Log Daemon for recording in the central log.

class A type definition in Java. It defines a template on which objects with similar characteristics can be built, and includes variables and methods specific to the class.

Class of Service A set of storage system characteristics used to group bitfiles with similar logical characteristics and performance requirements together. A Class of Service is supported by an underlying hierarchy of storage classes.

cluster The unit of storage space allocation on HPSS disks. The smallest amount of disk space that can be allocated from a virtual volume is a cluster. The size of the cluster on any given disk volume is determined by the size of the smallest storage segment that will be allocated on the volume, and other factors.

configuration The process of initializing or modifying various parameters affecting the behavior of an HPSS server or infrastructure service.

COS Class of Service

Core Server An HPSS server which manages the namespace and storage for an HPSS system. The Core Server manages the Name Space in which files are defined, the attributes of the files, and the storage media on which the files are stored. The Core Server is the central server of an HPSS system. Each storage sub-system uses exactly one Core Server.

daemon A UNIX program that runs continuously in the background.

DB2 A relational database system, a product of IBM Corporation, used by HPSS to store and manage HPSS system metadata.

debug A log record type used to report internal events that can be helpful in troubleshooting the system.

delog The process of extraction, formatting, and outputting HPSS central log records. This process is obsolete in 7.4 and later versions of HPSS. The central log is now recorded as flat text.

deregistration The process of disabling notification to SSM for a particular attribute change.

descriptive name A human-readable name for an HPSS server.

device A physical piece of hardware, usually associated with a drive, that is capable of reading or writing data.

directory An HPSS object that can contain files, symbolic links, hard links, and other directories.

dismount An operation in which a cartridge is either physically or logically removed from a device, rendering it unreadable and unwritable. In the case of tape cartridges, a dismount operation is a physical operation. In the case of a fixed disk unit, a dismount is a logical operation.

DNS Domain Name Service

DOE Department of Energy

drive A physical piece of hardware capable of reading and/or writing mounted cartridges. The terms device and drive are often used interchangeably.

ESCON Enterprise System Connection

event	A log record type used to report informational messages (e.g., subsystem starting, subsystem terminating).
export	An operation in which a cartridge and its associated storage space are removed from the HPSS system Physical Volume Library. It may or may not include an eject, which is the removal of the cartridge from its Physical Volume Repository.
file	An object than can be written to, read from, or both, with attributes including access permissions and type, as defined by POSIX (P1003.1-1990). HPSS supports only regular files.
file family	An attribute of an HPSS file that is used to group a set of files on a common set of tape virtual volumes.
fileset	A collection of related files that are organized into a single easily managed unit. A fileset is a disjoint directory tree that can be mounted in some other directory tree to make it accessible to users.
fileset ID	A 64-bit number that uniquely identifies a fileset.
fileset name	A name that uniquely identifies a fileset.
file system ID	A 32-bit number that uniquely identifies an aggregate.
FTP	File Transfer Protocol
Gatekeeper	An HPSS server that provides two main services: the ability to schedule the use of HPSS resources referred to as the Gatekeeping Service, and the ability to validate user accounts referred to as the Account Validation Service.
Gatekeeping Service	A registered interface in the Gatekeeper that provides a site the mechanism to create local policy on how to throttle or deny create, open and stage requests and which of these request types to monitor.
Gatekeeping Site Interface	The APIs of the gatekeeping site policy code.
Gatekeeping Site Policy	The gatekeeping shared library code written by the site to monitor and throttle create, open, and/or stage requests.
GB	Gigabyte (2^{30})
GECOS	The comment field in a UNIX password entry that can contain general information about a user, such as office or phone number.
GID	Group Identifier
GK	Gatekeeper
GUI	Graphical User Interface
HA	High Availability
HACMP	High Availability Clustered Multi-Processing - A software package used to implement high availability systems.
halt	A forced shutdown of an HPSS server.
HDM	Shorthand for HPSS/DMAP.
HDP	High Density Passthrough
hierarchy	See Storage Hierarchy.
HPSS	High Performance Storage System

HPSS-only fileset	An HPSS fileset that is not linked to an external filesystem (e.g., XFS).
IBM	International Business Machines Corporation
ID	Identifier
IEEE	Institute of Electrical and Electronics Engineers
import	An operation in which a cartridge and its associated storage space are made available to the HPSS system. An import requires that the cartridge has been physically introduced into a Physical Volume Repository (injected). Importing the cartridge makes it known to the Physical Volume Library.
I/O	Input/Output
IOD/IOR	Input/Output Descriptor / Input/Output Reply. Structures used to send control information about data movement requests in HPSS and about the success or failure of the requests.
IP	Internet Protocol
IRIX	SGI's implementation of UNIX
junction	A mount point for an HPSS fileset.
KB	Kilobyte (2^{10})
KDC	Key Distribution Center
LAN	Local Area Network
LANL	Los Alamos National Laboratory
latency	For tape media, the average time in seconds between the start of a read or write request and the time when the drive actually begins reading or writing the tape.
LDAP	Lightweight Directory Access Protocol
LLNL	Lawrence Livermore National Laboratory
local log	An optional log file maintained by a Log Client. The local log contains formatted messages sent by HPSS servers running on the same node as the Log Client.
Location Server	An HPSS server that is used to help clients locate the appropriate Core Server and/or other HPSS server to use for a particular request.
Log Client	An HPSS server required on non-Mover nodes. The Log Client is responsible for delivering log messages to the local log file, the Log Daemon, SSM, and the syslog system as configured.
Log Daemon	An HPSS server responsible for writing log messages to the central log. There is one Log Daemon per HPSS installation.
log record	A message generated by an HPSS application and handled and recorded by the HPSS logging subsystem.
log record type	A log record may be of type alarm, event, status, debug, request, security, trace, or accounting.
logging service	An HPSS infrastructure service consisting of a central Log Daemon, one or more Log Clients, and one or more logging policies. A default logging policy can be specified, which will apply to all servers, or server-specific logging policies may be defined.

logging service processes	The Log Client and Log Daemon.
LS	Location Server
LTO	Linear Tape-Open. A half-inch open tape technology developed by IBM, HP and Seagate.
MAC	Mandatory Access Control
managed object	A programming data structure that represents an HPSS system resource. The resource can be monitored and controlled by operations on the managed object. Managed objects in HPSS are used to represent servers, drives, storage media, jobs, and other resources.
MB	Megabyte (2^{20})
metadata	Control information about the data stored under HPSS, such as location, access times, permissions, and storage policies. Most HPSS metadata is stored in a DB2 relational database.
method	A Java function or subroutine
migrate	To copy file data from a level in the file's hierarchy onto the next lower level in the hierarchy.
Migration/ Purge Server	An HPSS server responsible for supervising the placement of data in the storage hierarchies based upon site-defined migration and purge policies.
MM	Metadata Manager. A software library that provides a programming API to interface HPSS servers with the DB2 programming environment.
mount	An operation in which a cartridge is either physically or logically made readable and/ or writable on a drive. In the case of tape cartridges, a mount operation is a physical operation. In the case of a fixed disk unit, a mount is a logical operation.
mount point	A place where a fileset is mounted in the XFS and/or HPSS namespaces.
Mover	An HPSS server that provides control of storage devices and data transfers within HPSS.
MPS	Migration/Purge Server
MVR	Mover
NASA	National Aeronautics and Space Administration
Name Service	The portion of the Core Server that providesa mapping between names and machine oriented identifiers. In addition, the Name Service performs access verification and provides the Portable Operating System Interface (POSIX).
name space	The set of name-object pairs managed by the HPSS Core Server.
NERSC	National Energy Research Supercomputer Center
NLS	National Language Support
notification	A notice from one server to another about a noteworthy occurrence. HPSS notifications include notices sent from other servers to SSM of changes in managed object attributes, changes in tape mount information, and log messages of type alarm, event, or status.
NS	HPSS Name Service
NSL	National Storage Laboratory

object	See Managed Object
ORNL	Oak Ridge National Laboratory
OS/2	Operating System (multi-tasking, single user) used on the AMU controller PC
PB	Petabyte (2^{50})
PFTP	Parallel File Transfer Protocol
physical volume	An HPSS object managed jointly by the Core Server and the Physical Volume Library that represents the portion of a virtual volume. A virtual volume may be composed of one or more physical volumes, but a physical volume may contain data from no more than one virtual volume.
Physical Volume Library	An HPSS server that manages mounts and dismounts of HPSS physical volumes.
Physical Volume Repository	An HPSS server that manages the robotic agent responsible for mounting and dismounting cartridges or interfaces with the human agent responsible for mounting and dismounting cartridges.
PIO	Parallel I/O
PIOFS	Parallel I/O File System
POSIX	Portable Operating System Interface (for computer environments)
purge	Deletion of file data from a level in the file's hierarchy after the data has been duplicated at lower levels in the hierarchy and is no longer needed at the deletion level.
purge lock	A lock applied to a bitfile which prohibits the bitfile from being purged.
PV	Physical Volume
PVL	Physical Volume Library
PVM	Physical Volume Manager
PVR	Physical Volume Repository
RAID	Redundant Array of Independent Disks
RAIT	Redundant Array of Independent Tapes
RAM	Random Access Memory
reclaim	The act of making previously written but now empty tape virtual volumes available for reuse. Reclaimed tape virtual volumes are assigned a new Virtual Volume ID, but retain the rest of their previous characteristics. Reclaim is also the name of the utility program that performs this task.
registration	The process by which SSM requests notification of changes to specified attributes of a managed object.
reinitialization	An HPSS SSM administrative operation that directs an HPSS server to reread its latest configuration information, and to change its operating parameters to match that configuration, without going through a server shutdown and restart.
repack	The act of moving data from a virtual volume onto another virtual volume with the same characteristics with the intention of removing all data from the source virtual volume. Repack is also the name of the utility program that performs this task.

request	A log record type used to report some action being performed by an HPSS server on behalf of a client.
RISC	Reduced Instruction Set Computer/Cycles
RPC	Remote Procedure Call
SCSI	Small Computer Systems Interface
security	A log record type used to report security related events (e.g., authorization failures).
SGI	Silicon Graphics
shelf tape	A cartridge which has been physically removed from a tape library but whose file metadata still resides in HPSS.
shutdown	An HPSS SSM administrative operation that causes a server to stop its execution gracefully.
sink	The set of destinations to which data is sent during a data transfer (e.g., disk devices, memory buffers, network addresses).
SMC	SCSI Medium Changer
SNL	Sandia National Laboratories
SOID	Storage Object ID. An internal HPSS storage object identifier that uniquely identifies a storage resource. The SOID contains an unique identifier for the object, and an unique identifier for the server that manages the object.
source	The set of origins from which data is received during a data transfer (e.g., disk devices, memory buffers, network addresses).
SP	Scalable Processor
SS	HPSS Storage Service
SSM	Storage System Management
SSM session	The environment in which an SSM user interacts with the SSM System Manager to monitor and control HPSS. This environment may be the graphical user interface provided by the hpssgui program, or the command line user interface provided by the hpssadm program.
stage	To copy file data from a level in the file's hierarchy onto the top level in the hierarchy.
start-up	An HPSS SSM administrative operation that causes a server to begin execution.
status	A log record type used to report progress for long running operations.
STK	Storage Technology Corporation
storage class	An HPSS object used to group storage media together to provide storage for HPSS data with specific characteristics. The characteristics are both physical and logical.
storage hierarchy	An ordered collection of storage classes. The hierarchy consists of a fixed number of storage levels numbered from level 1 to the number of levels in the hierarchy, with the maximum level being limited to 5 by HPSS. Each level is associated with a specific storage class. Migration and stage commands result in data being copied between different storage levels in the hierarchy. Each Class of Service has an associated hierarchy.
storage level	The relative position of a single storage class in a storage hierarchy. For example, if a storage class is at the top of a hierarchy, the storage level is 1.

storage map An HPSS object managed by the Core Server to keep track of allocated storage space.

storage segment An HPSS object managed by the Core Server to provide abstract storage for a bitfile or parts of a bitfile.

Storage Service The portion of the Core Server which provides control over a hierarchy of virtual and physical storage resources.

storage subsystem A portion of the HPSS namespace that is managed by an independent Core Server and (optionally) Migration/Purge Server.

Storage System Management An HPSS component that provides monitoring and control of HPSS via a windowed operator interface or command line interface.

stripe length The number of bytes that must be written to span all the physical storage media (physical volumes) that are grouped together to form the logical storage media (virtual volume). The stripe length equals the virtual volume block size multiplied by the number of physical volumes in the stripe group (i.e., stripe width).

stripe length The number of bytes that must be written to span all the physical storage media (physical volumes) that are grouped together to form the logical storage media (virtual volume). The stripe length equals the virtual volume block size multiplied by the number of physical volumes in the stripe group (i.e., stripe width).

stripe width The number of physical volumes grouped together to represent a virtual volume.

System Manager The Storage System Management (SSM) server. It communicates with all other HPSS components requiring monitoring or control. It also communicates with the SSM graphical user interface (hpssgui) and command line interface (hpssadm).

TB Terabyte (2^{40})

TCP/IP Transmission Control Protocol/Internet Protocol

trace A log record type used to record procedure entry/exit events during HPSS server software operation.

transaction A programming construct that enables multiple data operations to possess the following properties:

- All operations commit or abort/roll-back together such that they form a single unit of work.
- All data modified as part of the same transaction are guaranteed to maintain a consistent state whether the transaction is aborted or committed.
- Data modified from one transaction are isolated from other transactions until the transaction is either committed or aborted.
- Once the transaction commits, all changes to data are guaranteed to be permanent.

UDA User-defined Attribute

UDP User Datagram Protocol

UID User Identifier

UPC Universal Product Code

UUID Universal Unique Identifier

virtual volume	An HPSS object managed by the Core Server that is used to represent logical media. A virtual volume is made up of a group of physical storage media (a stripe group of physical volumes).
virtual volume block size	The size of the block of data bytes that is written to each physical volume of a striped virtual volume before switching to the next physical volume.
VV	Virtual Volume
XDSM	The Open Group's Data Storage Management standard. It defines APIs that use events to notify Data Management applications about operations on files.
XFS	A file system created by SGI available as open source for the Linux operating system.
XML	Extensible Markup Language

Appendix B. Developer Acknowledgments

HPSS is a product of a government-industry collaboration. The project approach is based on the premise that no single company, government laboratory, or research organization has the ability to confront all of the system-level issues that must be resolved for significant advancement in high-performance storage system technology.

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