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Figure 1: Sample Messages

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1. Preface

1.1 Edition information
This edition applies to the Hercules S/370, ESA/390 and z/Architecture Emulator Release 3.07.0 and to all subsequent versions, releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of software you are using.

1.2 What this book is about
This book describes all messages and codes of the Hercules Emulator.
For guidance in operating or debugging Hercules, for a general overview or for guidance in installation of the product, additional manuals are available. Please see Chapter “Related Publications” for more information on these manuals.
Please note that some information can be found in more than one manual. This redundancy is not intended to unnecessarily expand the manuals but should help to find all necessary information in one place.

1.3 Who should read this book
This book is mainly intended for people who are responsible for operating the Hercules Emulator. It serves as a starting point for resolving errors in the Hercules environment.

1.4 What you need to know to understand this book
To understand this book you should be somewhat familiar with the Windows (XP, W2K, W2K3, Vista, W2K8) and/or Linux operating systems. You should also be familiar with the installation and operation of the Hercules Emulator itself.
Last but not least you should be familiar with the hardware and software of IBM mainframe environments and their underlying ideas and concepts, as Hercules emulates IBM mainframe hardware.

1.5 How to use this book
This book is designed as a reference book for all messages and codes of the Hercules Emulator and related products. It is not intended to be read chapter by chapter.

1.6 Revision Notice
Hercules Release: Version 3 Release 07 Modification 0
Publication Number: HEMC030700
SoftCopy Name: HerculesMessagesandCodes
Revision Number: HEMC030700-01
Date: June 28, 2010
1.7 Readers Comments

If you like or dislike anything about this book please send an email to the address below. Feel free to comment on any errors or lack of clarity. Please limit your comments on the information in this specific book and also include the “Revision Notice” just above. Thank you for your help.

Send your comments by email to the Hercules-390 discussion group:
hercules-390@yahoogroups.com

1.8 Legal Advice

Hercules implements only the raw S/370, ESA/390, and z/Architecture instruction set, it does not provide any operating system facilities. This means that you need to provide an operating system or standalone program which Hercules can load from an emulated disk or tape device. You will have to write the operating system or standalone program yourself, unless you possess a license from IBM to run one of their operating systems on your PC, or use IBM programs and operating systems which have been placed in the public domain.

NOTE: It is YOUR responsibility to comply with the terms of the license for the operating system you intend to run on the Hercules Emulator.

1.9 Trademarks

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- Vista tn3270 is copyrighted by Tom Brennan Software.
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- Athlon, Opteron are trademarks or registered trademarks of Advanced Micro Devices (AMD), Inc.
- Xmit Manager is copyrighted by Neal Johnston-Ward.
- FLEX-ES is a registered trademark of Fundamental Software, Inc.
- UMX Virtual Mainframe is a registered trademark of UMX Technologies.
1.10 Acknowledgements

The Hercules manuals would not have been possible without the assistance of many people and I would like to thank all those who helped me. In particular I would like to thank:

- The Hercules developers for their documentation on various websites from which I derived a great deal of information.
- Roger Bowler and Fish for proof-reading the manuals.
- Loris Degianni for allowing me to use parts of the original WinPcap documentation.
- Tom Brennan for allowing me to use parts of his Vista tn3270 documentation.
- My colleagues for working with early previews of the documentation, beginning with just a few pages.
- Mike Cairns for reviewing and editing the manuals.

If anyone feels they have been forgotten on this list please let me know.

Peter Glanzmann
2. Related Publications

2.1 Hercules Emulator – General Information
The Hercules "General Information" manual provides an overview of the ideas and concepts of the Hercules Emulator as well as documentation of the emulators functionality. It explains what Hercules does and does not and helps you decide if the software fits to your needs and if it can fulfill all your requirements.

2.2 Hercules Emulator – Installation Guide
The Hercules "Installation Guide" shows you how to install Hercules and all related optional and required software components under the Microsoft Windows, Linux and Apple MacIntosh OS X operating systems. After going through the installation guide you will have a working emulator environment ready to IPL a S370, S/390 or z/Architecture mainframe operating system.

2.3 Hercules Emulator – User Reference Guide
The Hercules "User Reference" leads you through all aspects of the emulators operation. It provides instruction in the operation of the Hercules Emulator with and without the Windows GUI. The usage details for all Hercules utilities are also covered in this guide. After reading this manual you should be able to work with Hercules and the Hercules console, create virtual devices, understand backup/restore procedures and general housekeeping within the Hercules environment.

2.4 Hercules Emulator – Messages and Codes
The "Messages and Codes" manual provides a detailed explanation of all Hercules related messages. It is the primary source for troubleshooting and debugging when you experience problems with Hercules.

2.5 Hercules Emulator – Reference Summary
The Hercules "Reference Summary" booklet lists all the system parameters, device definitions, console commands, Hercules utilities etc. along with their arguments. This booklet is intended as a quick reference guide for experienced users. Consult the Hercules "User Reference Guide" for more detailed and additional information.
3. Introduction

3.1 Overview
This Chapter gives an introduction to the messages and codes of the Hercules Emulator and related tools, as well as the messages written from the various standalone utility programs.

3.2 Locations
All messages are written to the Hercules console (native console as well as the Hercules Windows GUI / Hercules Studio) and to the Hercules log file, if a log file is specified in the startup command.

3.3 Message Format
All Hercules-issued messages have the following format:

H H C m m n n n s text

The following table explains the various parts of the message format:

<table>
<thead>
<tr>
<th>Part</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHC</td>
<td>HHC is the message prefix for Hercules. All Hercules messages will have this prefix.</td>
</tr>
<tr>
<td>mm</td>
<td>&quot;mm&quot; specifies the function that issued the message. A detailed list of all functions can be found in section 3.4.</td>
</tr>
<tr>
<td>nnn</td>
<td>&quot;nnn&quot; specifies the message number. This number is assigned more or less sequentially.</td>
</tr>
<tr>
<td>s</td>
<td>&quot;s&quot; is the message severity. Details can be found in section 3.5.</td>
</tr>
<tr>
<td>text</td>
<td>&quot;text&quot; is the actual message text.</td>
</tr>
</tbody>
</table>

Table 1: Message Format

3.4 Function List
The following table presents all the Hercules function prefixes from the messages, along with a short description of the function:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>AO</td>
<td>Hercules Automatic Operator</td>
</tr>
<tr>
<td>Prefix</td>
<td>Function</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>CA</td>
<td>Communication Adapter Emulation</td>
</tr>
<tr>
<td>CF</td>
<td>Configuration File Processing</td>
</tr>
<tr>
<td>CP</td>
<td>CPU Emulation</td>
</tr>
<tr>
<td>CT</td>
<td>Channel-to-Channel Adapter Emulation</td>
</tr>
<tr>
<td>CU</td>
<td>CCKD Utilities</td>
</tr>
<tr>
<td>DA</td>
<td>DASD Emulation (CKD, CCKD and FBA)</td>
</tr>
<tr>
<td>DC</td>
<td>DASDCOPY Utility</td>
</tr>
<tr>
<td>DG</td>
<td>Dyngui.DLL</td>
</tr>
<tr>
<td>DI</td>
<td>DASDINIT Utility</td>
</tr>
<tr>
<td>DL</td>
<td>DASDLOAD Utility</td>
</tr>
<tr>
<td>DS</td>
<td>DASDISUP Utility</td>
</tr>
<tr>
<td>DT</td>
<td>DASDCAT Utility</td>
</tr>
<tr>
<td>DU</td>
<td>DASD Utilities Common Functions</td>
</tr>
<tr>
<td>HD</td>
<td>Hercules Dynamic Loader</td>
</tr>
<tr>
<td>HE</td>
<td>HETINIT Utility</td>
</tr>
<tr>
<td>HG</td>
<td>HETGET Utility</td>
</tr>
<tr>
<td>HM</td>
<td>HETMAP Utility</td>
</tr>
<tr>
<td>HT</td>
<td>HTTP Server</td>
</tr>
<tr>
<td>HU</td>
<td>HETUPD Utility</td>
</tr>
<tr>
<td>IF</td>
<td>Network Interface Configuration Handler (hercifc)</td>
</tr>
<tr>
<td>IN</td>
<td>Hercules Initialization</td>
</tr>
<tr>
<td>LC</td>
<td>LCS Emulation</td>
</tr>
<tr>
<td>LG</td>
<td>System Log Functions</td>
</tr>
<tr>
<td>PN</td>
<td>Hercules Control Panel Command Messages</td>
</tr>
<tr>
<td>PR</td>
<td>Printer Emulation</td>
</tr>
<tr>
<td>PU</td>
<td>Card Punch Emulation</td>
</tr>
<tr>
<td>Prefix</td>
<td>Function</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>RD</td>
<td>Card Reader Emulation</td>
</tr>
<tr>
<td>SD</td>
<td>Socket Devices Common Functions</td>
</tr>
<tr>
<td>TA</td>
<td>Tape Device Emulation</td>
</tr>
<tr>
<td>TC</td>
<td>TAPECOPY Utility</td>
</tr>
<tr>
<td>TE</td>
<td>Terminal Emulation</td>
</tr>
<tr>
<td>TM</td>
<td>TAPEMAP Utility</td>
</tr>
<tr>
<td>TS</td>
<td>TAPESPLT Utility</td>
</tr>
<tr>
<td>TT</td>
<td>TOD Clock and Timer Services</td>
</tr>
<tr>
<td>TU</td>
<td>TUN / TAP Driver Support</td>
</tr>
<tr>
<td>VM</td>
<td>VM / CP Emulation Facility</td>
</tr>
</tbody>
</table>

Table 2: Hercules Function List

### 3.5 Message Severity

The following table shows the different message severities, issued by the Hercules Emulator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Severe error. This type of error causes immediate termination of Hercules.</td>
</tr>
<tr>
<td>E</td>
<td>Error. The function being executed did not execute correctly but Hercules should continue running</td>
</tr>
<tr>
<td>W</td>
<td>Warning. Not necessarily an error but something to take note of and possibly correct.</td>
</tr>
<tr>
<td>I</td>
<td>Information. General messages that do not require any further action.</td>
</tr>
<tr>
<td>A</td>
<td>Action. You need to do something.</td>
</tr>
<tr>
<td>D</td>
<td>Debug. Debugging Messages.</td>
</tr>
</tbody>
</table>

Table 3: Message Severity
3.6 Message Examples

The following figure shows some Hercules messages. Although these messages are from a real IPL, please note that they are not complete i.e some messages have been deleted. The messages are shown just as an example of how messages look, especially the variable parts of messages.

```
01:13:24 Hercules Version 3.05
01:13:24 (c)Copyright 1999-2007 by Roger Bowler, Jan Jaeger, and others
01:13:24 Build information:
01:13:24 Win32 (MSVC) build
01:13:24 Modes: S/370 ESA/390 z/Arch
01:13:24 Max CPU Engines: 8
01:13:24 Using fthreads instead of pthreads
01:13:24 Dynamic loading support
01:13:24 Loadable module default base directory is .
01:13:24 Using shared libraries
01:13:24 HTTP Server support
01:13:24 No SIGABEND handler
01:13:24 Regular Expressions support
01:13:24 Automatic Operator support
01:13:24 Machine dependent assists: cmpxchg1 cmpxchg4 cmpxchg8 fetch_dw store_dw
01:13:24 Running on LENA Windows_NT-5.1 i686 MP=2
01:13:24 Crypto module loaded (c) Copyright Bernard van der Helm, 2003-2007
01:13:24 HHCCF020W Vector Facility support not configured
01:13:24 HHCCF065I Hercules: tid=000006AC, pid=1900, pgid=1900, priority=0
01:13:24 HHCTE001I Console connection thread started: tid=00000FBC, pid=1900
01:13:24 HHCTE003I Waiting for console connection on port 3270
01:13:24 HHCDA020I D:/MVS/DASD/WORK00.140c cyls=555 heads=30 tracks=16650 trklen=19456
01:13:24 HHCCF069I Run-options enabled for this run:
01:13:24           NUMCPU:           2
01:13:24           ASN-and-LX-reuse: DISabled
01:13:24 HHCTT002I Timer thread started: tid=000007A4, pid=1900, priority=-20
01:13:24 HHCCP002I CPU0000 thread started: tid=00000820, pid=1900, priority=0
01:13:24 HHCCP003I CPU0000 architecture mode S/370
01:13:24 HHCCP002I CPU0000 thread started: tid=00000820, pid=1900, priority=0
01:13:24 HHCCP003I CPU0000 architecture mode S/370
01:13:24 HHCCP002I CPU0000 thread started: tid=00000820, pid=1900, priority=0
01:13:24 HHCCP003I CPU0000 architecture mode S/370
01:13:24 HHCCP002I CPU0000 thread started: tid=00000820, pid=1900, priority=0
01:13:24 HHCCP003I CPU0000 architecture mode S/370
01:13:24 HHCHT001I HTTP listener thread started: tid=00000818, pid=1900
01:13:24 HHCTT013I Using HTTPROOT directory "D:\Hercules\html"
01:13:24 HHCAO001I Hercules Automatic Operator thread started;
01:13:24           tid=00000F58, pri=0, pid=1900
01:13:24 HHCHT006I Waiting for HTTP requests on port 8081
01:13:34 quit
01:13:34 HHClN900I Begin Hercules shutdown
01:13:34 HHClN901I Releasing configuration
01:13:34 HHCAO002I Hercules Automatic Operator thread ended
01:13:34 HHCCP008I CPU0000 thread ended: tid=00000820, pid=1900
01:13:34 HHCCP008I CPU0001 thread ended: tid=000008E4, pid=1900
01:13:34 HHCCF047I Subchannel 0:0000 detached
01:13:34 HHCCF047I Subchannel 0:000E detached
```
Figure 1: Sample Messages
4. Messages HHCAOnnns - Hercules Automatic Operator

HHCAOnnns
Messages HHCAOnnns are not yet documented.
5. Messages HHCCAnns - Communication Adapter Emulation

HHCCA001I

HHCCA001I CCUU:Connect out to ipaddr:port failed during initial status : System Cause Text

Explanation
Hercules attempted to make an outgoing TCP connection to ipaddr:port but the system indicated that there was an error while processing the request.

System Action
The DIAL or ENABLE CCW that caused the connection attempt ends with Unit Check and Intervention Required. The reason for the failure is indicated in the System Cause Text field.

Operator Action
None

Programmer Action
Correct the RHOST/RPORT configuration statements in the configuration file. If this message occurred during a program initiated DIAL, correct the dial data.

HHCCA002I

HHCCA002I CCUU:Line Communication thread thread id started

Explanation
The thread responsible for asynchronous operations for the BSC emulated line CCUU has been started.

System Action
The system continues.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA003E

HHCCA003E CCUU:Cannot obtain socket for incoming calls : System Cause Text

Explanation
A system error occurred while attempting to create a socket to listen for incoming calls.

System Action
The device creation is aborted.
Operator Action
None.

Programmer Action
Check the System Cause Text for any information relating to the host system. Notify support.

HHCCA004W

HHCCA004W CCUU:Waiting 5 seconds for port port to become available

Explanation
While attempting to reserve port port to listen to, the system indicated the port was already being used.

System Action
The system waits 5 seconds and then retries the operation.

Operator Action
Terminate the device if the port is in error.

Programmer Action
Determine the program holding the specified port. If the port cannot be made available, use a different port.

HHCCA005I

HHCCA005I CCUU:Listening on port port for incoming TCP connections

Explanation
The system is now listening on port port for incoming a tcp connection.

System Action
The system continues.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA006T

HHCCA006T CCUU:Select failed : System Cause Text

Explanation
An error occurred during a 'select' system call.

System Action
The BSC thread is terminated.

Operator Action
None.
Programmer Action
Check the System Cause Text for any indication of where the error might come from. Notify Support.

HHCCA007W

HHCCA007W CCUU: Outgoing call failed during ENABLE|DIAL command: System Cause Text

Explanation
The system reported that a previously initiated TCP connection could not be completed.

System Action
The I/O operation responsible for the TCP outgoing connection is ended with Unit Check and Intervention Required.

Operator Action
If the error indicates that the error is temporary, retry the operation.

Programmer Action
Check that the destination for this line is correctly configured. If the operation was a DIAL attempt, check in the application configuration or operation data.

HHCCA008I

HHCCA008I CCUU: cthread - Incoming Call

Explanation
The BSC thread has received an incoming call.

System Action
Depending on configuration and operational status, the call is either accepted or rejected. Eventually an ongoing I/O operation may complete.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA009I

HHCCA009I CCUU: BSC utility thread terminated

Explanation
The BSC thread has ended.

System Action
The system continues.

Operator Action
Refer to any previous error message to determine if this message was not unexpected.
Programmer Action
Refer to any previous error message to determine if this message was not unexpected.

HHCCA010I

HHCCA010I CCUU: initialization not performed

Explanation
The Device initialization process has failed.

System Action
The system terminates or continues, depending on the reason for which the device was initialization was initiated.

Operator Action
Refer to any previous error message.

Programmer Action
Refer to any previous error message.

HHCCA011E

HHCCA011E CCUU: Error parsing Keyword

Explanation
The device keyword parser found an error while parsing a known keyword.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA012E

HHCCA012E CCUU: Unrecognized parameter Keyword

Explanation
The device keyword parser found an unknown keyword in the device parameter list.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.
HHCCA013E

HHCCA013E CCUU:Incorrect local port|remote port|local host|remote host specification value

Explanation
The device initialization routine could not correctly parse a parameter value.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA014E

HHCCA014E CCUU:Incorrect switched/dial specification value; defaulting to DIAL=OUT

Explanation
The device initialization routine found an incorrect DIAL value.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA015E

HHCCA015E CCUU:Missing parameter : DIAL=NO|IN|OUT|INOUT and LPORT|RPORT|LHOST|RHOST not specified

Explanation
The device initialization routine found that a mandatory parameter was not provided for a specific DIAL Value.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

Note
For DIAL=NO, LPORT, RPORT and RHOST are needed
For DIAL=IN, LPORT is required
For DIAL=OUT None of LPORT,LHOST,RPORT,RHOST are required
For DIAL=INOUT, LPORT is required

**HHCCA016W**

**HHCCA016W CCUU:Conflicting parameter : DIAL=NO|IN|OUT|INOUT and LPORT|RPORT|LHOST|RHOST=value specified**

**Explanation**
The device initialization routine found that a parameter was provided for a parameter that is not relevant for a specific DIAL value.

**System Action**
The parameter is ignored. The system continues.

**Operator Action**
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

**Programmer Action**
For an engine initialization, correct the device configuration parameters in the configuration file.

**Note**
- For DIAL=IN , RPORT and RHOST are ignored
- For DIAL=OUT , LPORT, LHOST, RPORT and RHOST are ignored
- For DIAL=INOUT, RPORT and RHOST are ignored

**HHCCA017I**

**HHCCA017I CCUU:LPORT|RPORT|LHOST|RHOST parameter ignored**

**Explanation**
The system indicates that the parameter specified is ignored. This message is preceded by message HHCCA016W.

**System Action**
The system continues.

**Operator Action**
None.

**Programmer Action**
None.

**HHCCA018E**

**HHCCA018E CCUU:Bind failed : System Cause Text**

**Explanation**
While attempting to bind a socket to a specific host/port, the host system returned an uncorrectable error.

**System Action**
BSC Thread terminates.
Operator Action
None.

Programmer Action
Check that the LHOST parameter for this device is indeed a local IP address, otherwise notify support.

**HHCCA019E**

**HHCCA019E CCUU:BSC comm thread did not initialise**

**Explanation**
The BSC communication thread reported that it terminated while the device was initialising.

**System Action**
The device is not initialised.

**Operator Action**
Check for any previously issued error message.

**Programmer Action**
Check for any previously issued error message.

**HHCCA020E**

**HHCCA020E CCUU:Memory allocation failure for main control block**

**Explanation**
A memory allocation failure occurred, while attempting to reserve memory for the Communication Adapter control block.

**System Action**
The device is not initialised.

**Operator Action**
None.

**Programmer Action**
Contact support.

**HHCCA021I**

**HHCCA021I CCUU:Initialization failed due to previous errors**

**Explanation**
The initialization process for device CCUU did not complete successfully.

**System Action**
The device is not initialised.

**Operator Action**
None.
Programmer Action
Refer to any previous error message.

HHCCA300D

HHCCA300D Debug Message

Explanation
This is a debug message. CCW Tracing has been turned on for this device and the Line Handler issues
debg messages to help diagnose interface, conformance and protocol issues.

System Action
The system continues.

Operator Action
If the debug messages are no longer necessary, turn off CCW tracing (panel command : ‘t-CCUU’).

Programmer Action
None.
6. Messages HHCCFnnns - Configuration File Processing

HHCCF001S

HHCCF001S Error reading file filename line lineno: error

Explanation
An error was encountered reading the configuration file named filename at line number lineno. The error is described by error.

Action
Correct the error and restart Hercules.

HHCCF002S

HHCCF002S File filename line lineno is too long

Explanation
The line at line number lineno in the configuration file filename is too long and cannot be processed.

Action
Correct the line and restart Hercules.

HHCCF003S

HHCCF003S Cannot open file filename: error

Explanation
The configuration file named filename could not be opened. The error is described by error.

Action
Correct the error and restart Hercules.

HHCCF004S

HHCCF004S No device records in file filename

Explanation
The configuration file named filename does not contain any device definition records. Without these, Hercules cannot do any meaningful work.

Action
Specify one or more device definitions in the configuration file and restart Hercules.
**HHCCF005S**

**HHCCF005S Unrecognized argument argument**

**Explanation**
An invalid argument, *argument*, was specified on the HTTPPORT configuration statement in the file named *filename* at line number *lineno*. Only the arguments auth and noauth are valid.

**Action**
Correct the invalid argument and restart Hercules.

**HHCCF006S**

**HHCCF006S Error in filename line lineno: Userid, but no password given userid**

**Explanation**
A userid, *userid*, was specified on the HTTPPORT configuration statement in the file named *filename* at line number *lineno*, but no password was provided. A password is required if a userid is present.

**Action**
Either remove the userid, or specify a password, and restart Hercules.

**HHCCF007S**

**HHCCF007S Error in filename line lineno: Missing argument**

**Explanation**
The HTTPROOT configuration statement was specified in the file named *filename* at line number *lineno*, but no directory was specified. A directory is required.

**Action**
Specify the directory where the Hercules web server will find its HTML files and restart Hercules.

**HHCCF008E**

**HHCCF008E Error in filename line lineno: Unrecognized keyword keyword**

**Explanation**
An invalid configuration statement was specified in the file named *filename* at line number *lineno*. The invalid keyword was *keyword*.

**Action**
Correct the invalid statement and restart Hercules.
HHCCF009S

HHCCF009S Error in filename line lineno: Incorrect number of operands

Explanation
The configuration statement at line lineno of the file named filename had an invalid number of operands. For all but the HTTPPORT statement exactly one operand is required.

Action
Correct the invalid statement and restart Hercules.

HHCCF010S

HHCCF010S Error in filename line lineno: Unknown or unsupported ARCHMODE specification mode

Explanation
The ARCHMODE configuration statement at line lineno of the file named filename specified an invalid architecture. Only S/370, ESA/390, or ESAME are valid. If one of these was specified, then support for that architecture was excluded when the copy of Hercules in use was compiled.

Action
Correct the specified value and restart Hercules. If the message was issued because support for the desired architecture was excluded, then recompile Hercules.

HHCCF011S

HHCCF011S Error in filename line lineno: serialno is not a valid serial number

Explanation
The serial number serialno specified on the CPUSERIAL configuration statement at line number lineno of the file named filename must be exactly six digits long and must be a valid hexadecimal number.

Action
Correct the serial number and restart Hercules.

HHCCF012S

HHCCF012S Error in filename line lineno: modelno is not a valid CPU model

Explanation
The model number modelno specified on the CPUMODEL configuration statement at line number lineno of the file named filename must be exactly four digits long, and must be a valid hexadecimal number.

Action
Correct the model number and restart Hercules.
HHCCF013S

HHCCF013S Error in filename line lineno: Invalid main storage size size

Explanation
The main storage size size specified on the MAINSIZE configuration statement at line number lineno of the file named filename must be a valid decimal number whose value is at least 2. For 32-bit platforms the value must not exceed 4095.

Action
Correct the main storage size and restart Hercules.

HHCCF014S

HHCCF014S Error in filename line lineno: Invalid expanded storage size size

Explanation
The expanded storage size size specified on the XPNDSIZE configuration statement at line number lineno of the file named filename must be a valid decimal number between 0 and 16777215.

Action
Correct the expanded storage size and restart Hercules.

HHCCF015S

HHCCF015S Error in filename line lineno: Invalid console port number port

Explanation
The console port number port specified on the CNSLPORT configuration statement at line number lineno of the file named filename must be a valid nonzero decimal number.

Action
Correct the console port number and restart Hercules.

HHCCF016S

HHCCF016S Error in filename line lineno: Invalid threadname thread priority priority

Explanation
The thread priority priority specified on the xxxPRIO configuration statement at line number lineno of the file named filename must be a valid decimal number.

Action
Correct the priority on the statement and restart Hercules.
HHCCF017W

HHCCF017W Hercules is not running as setuid root, cannot raise threadname priority

Explanation
A negative value for the threadname thread priority parameter xxxPRIO was specified but Hercules is not running as the root user (either directly or via the setuid mechanism). This parameter value would cause the priority of the CPU execution thread to be raised above the normal level if Hercules were running as root. Since it is not, however, the parameter will have no effect.

Action
Either specify a positive value to lower the CPU thread priority, zero to not alter the priority, or omit the statement entirely to use the Hercules default CPU thread priority of 15.

HHCCF018S

HHCCF018S Error in filename line lineno: Invalid number of CPUs number

Explanation
The number of emulated CPUs number specified on the NUMCPU configuration statement at line number lineno of the file named filename must be a valid decimal number between 1 and the maximum number defined when Hercules was built (usually 2; this number is never more than 2 for S/370 mode, or 16 for ESA/390 or ESAME mode).

Action
Correct the number of emulated CPUs and restart Hercules.

HHCCF019S

HHCCF019S Error in filename line lineno: Invalid number of VFs number

Explanation
The number of emulated Vector Facility engines number specified on the NUMVEC configuration statement at line number lineno of the file named filename must be a valid decimal number between 1 and the maximum number defined when Hercules was built (usually 2).

Action
Correct the number of emulated Vector Facility engines and restart Hercules.

HHCCF020W

HHCCF020W Vector Facility support not configured

Explanation
A request for Vector Facility support was made by the NUMVEC configuration statement, but Hercules was built without the Vector Facility code. The request has been ignored.
**Action**
If Vector Facility support is desired, recompile Hercules. If not, remove the NUMVEC configuration statement.

---

**HHCCF021S**

HHCCF021S Error in `filename` line `lineno`: Invalid maximum number of CPUs `number`

**Explanation**
The maximum number of emulated CPUs `number` specified on the MAXCPU configuration statement at line number `lineno` of the file named `filename` must be a valid decimal number. It must not exceed the maximum number (MAX_CPU_ENGINES) defined when Hercules was built.

**Action**
correct the MAXCPU parameter and restart Hercules.

---

**HHCCF022S**

HHCCF022S Error in `filename` line `lineno`: epoch is not a valid system epoch

**Explanation**
The system epoch `epoch` specified on the SYSEPOCH configuration statement at line number `lineno` of the file named `filename` must be one of the following: 1900, 1928, 1960, 1988, or 1970.

**Action**
correct the system epoch and restart Hercules. If a different epoch is desired, a change must be made to the Hercules source file config.c and Hercules rebuilt.

---

**HHCCF023S**

HHCCF023S Error in `filename` line `lineno`: offset is not a valid timezone offset

**Explanation**
The system timezone offset `offset` specified on the TZOFFSET configuration statement at line number `lineno` of the file named `filename` must be five characters long and a valid decimal number of the form (+|-)number, where number must be between zero and 2359 (representing 23 hours, 59 minutes).

**Action**
correct the time zone offset and restart Hercules.

---

**HHCCF024S**

HHCCF024S Error in `filename` line `lineno`: Invalid TOD clock drag factor `drag`

**Explanation**
The TOD clock drag factor `drag` specified on the TODDRAG configuration statement at line number `lineno` of the file named `filename` must be a valid decimal number between 1 and 10000.

**Action**
correct the TOD clock drag factor and restart Hercules.
HHCCF025S

HHCCF025S Error in filename line lineno: Invalid panel refresh rate rate

Explanation
The control panel refresh rate rate specified on the PANRATE configuration statement at line number lineno of the file named filename must be either F, S, or a valid decimal number between 1 and 5000.

Action
Correct the control panel refresh rate and restart Hercules.

HHCCF026S

HHCCF026S Error in filename line lineno: Unknown OS tailor specification tailor

Explanation
The OS tailoring value tailor specified on the OSTAILOR configuration statement at line number lineno of the file named filename must be either OS/390, VSE, VM, LINUX, NULL, or QUIET.

Action
Correct the OS tailoring value and restart Hercules.

HHCCF027S

HHCCF027S Error in filename line lineno: Invalid maximum device threads threads

Explanation
The maximum device threads threads specified on the DEVTMAX configuration statement at line number lineno of the file named filename must be a valid decimal number greater than -1.

Action
Correct the maximum device threads and restart Hercules.

HHCCF028S

HHCCF028S Invalid program product OS permission permission

Explanation
The program product OS permission permission specified on the PGMPRDOS configuration statement must be either LICENSED or RESTRICTED. The alternative spelling LICENCED is also accepted.

Action
Correct the program product OS permission and restart Hercules.
HHCCF029S

HHCCF029S Invalid HTTP port number port

Explanation
The HTTP server port number port specified on the HTTPPORT configuration statement must be either 80, or a valid decimal number greater than 1024.

Action
Correct the HTTP server port number and restart Hercules.

HHCCF030S

HHCCF030S Error in filename line lineno: Invalid I/O delay value delay

Explanation
The I/O delay value delay specified on the IODELAY configuration statement at line number lineno of the file named filename must be a valid decimal number.

Action
Correct the I/O delay value and restart Hercules.

HHCCF031S

HHCCF031S Cannot obtain sizeMB main storage: error

Explanation
An attempt to obtain the amount of main storage specified by MAINSTOR failed for the reason described by error.

Action
Correct the error and restart Hercules.

HHCCF032S

HHCCF032S Cannot obtain storage key array: error

Explanation
An attempt to obtain storage for the array of storage keys failed for the reason described by error.

Action
Correct the error and restart Hercules.
HHCCF033S

HHCCF033S Cannot obtain sizeMB expanded storage: error

Explanation
An attempt to obtain the amount of expanded storage specified by XPNDSTOR failed for the reason described by error.

Action
Correct the error and restart Hercules.

HHCCF034W

HHCCF034W Expanded storage support not installed

Explanation
A request was made for expanded storage by the XPNDSTOR configuration parameter, but Hercules was built without expanded storage support. The request was ignored.

Action
Either remove the XPNDSTOR configuration parameter or recompile Hercules with expanded storage support included.

HHCCF035S

HHCCF035S Error in filename line lineno: Missing device number or device type

Explanation
The I/O device definition statement at line number lineno of the file named filename did not contain a device number or a device type.

Action
Supply the missing value and restart Hercules.

HHCCF036S

HHCCF036S Error in filename line lineno: number is not a valid device number(s) specification

Explanation
The I/O device definition statement at line number lineno of the file named filename specified an invalid device number number. The device number must be one to four hexadecimal digits.

Action
Correct the device number and restart Hercules.
HHCCF037S

HHCCF037S Message pipe creation failed: *error*

**Explanation**
An attempt to create a pipe for communication with the control panel failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

HHCCF038S

HHCCF038S Message pipe open failed: *error*

**Explanation**
An attempt to open the pipe for communication with the control panel failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

HHCCF039W

HHCCF039W PGMPRDOS LICENSED specified. A licensed program product operating systems is running. You are responsible for meeting all conditions of your software license.

**Explanation**
The configuration parameter PGMPRDOS LICENSED was specified and Hercules has detected that the operating system is a licensed program product. This message is issued to remind you that compliance with the terms of the license for your system's software is your responsibility.

**Action**
Be sure you know what you are doing.

HHCCF040E

HHCCF040E Cannot create CPU *number* thread: *error*

**Explanation**
An attempt to create a new thread for execution of CPU *number* failed. The error is described by *error*. The CPU has not been added to the configuration.

**Action**
Correct the error and retry the operation.
HHCCF041E

HHCCF041E Device address already exists

Explanation
An attempt was made to define a device at address address. There is already a device at that address.

Action
Either choose another device address or use the detach command to remove the existing device.

HHCCF042E

HHCCF042E Device type type not recognized

Explanation
An attempt was made to define a device of type type. This device type is not supported by Hercules. It may also indicate that the system was unable to load the device handler for the specified device type.

Action
Specify a supported device type. If the device type is supported, make sure the system can load the load modules necessary for device operations. Either use the LD_LIBRARY_PATH environment variable or use ldconfig(8) to customize the library search path.

HHCCF043E

HHCCF043E Cannot obtain device block for device address: error

Explanation
An attempt to allocate memory for the control block describing the device with address address failed. The error is described by error. The device has not been defined.

Action
Correct the error and retry the operation.

HHCCF044E

HHCCF044E Initialization failed for device address

Explanation
The device at address address could not be initialized. The device initialization routine has issued a message describing the problem in further detail; refer to that message for more information.

Action
Correct the error and retry the operation.
HHCCF045E

HHCCF045E Cannot obtain buffer for device address: error

Explanation
An attempt to allocate memory for the data buffer for the device with address address failed. The error is described by error. The device has not been defined.

Action
Correct the error and retry the operation.

HHCCF046E

HHCCF046E Device address does not exist

Explanation
An attempt was made to remove a device at address address. There is no device at that address.

Action
Choose another device address to remove, if desired.

HHCCF047I

HHCCF047I Device address detached

Explanation
The device at address address has been successfully removed from the system.

Action
None.

HHCCF048E

HHCCF048E Device address does not exist

Explanation
An attempt was made to rename a device at address address. There is no device at that address.

Action
Choose another device address to rename, if desired.

HHCCF049E

HHCCF049E Device address already exists

Explanation
An attempt was made to rename a device to address address. There is already a device at that address.
Action
Either choose another device address or use the detach command to remove the existing device.

HHCCF050I

HHCCF050I Device oldaddr defined as newaddr

Explanation
The device which was previously defined with the address oldaddr has been changed to the address newaddr.

Action
None.

HHCCF051S

HHCCF051S Error in filename line lineno: verid is not a valid CPU version code

Explanation
The version code verid specified on the CPUVERID configuration statement at line number lineno of the file named filename must be exactly two digits long and must be a valid hexadecimal number.

Action
Correct the model number and restart Hercules.

HHCCF052S

HHCCF052S DIAG8CMD invalid option: option

Explanation
The argument option on the DIAG8CMD is invalid. Valid options are enable, disable, echo, and noecho.

Action
Correct the statement and restart Hercules.

HHCCF053E

HHCCF053E Incorrect second device number in device range near character c

Explanation
The second argument of a device range contains an incorrect device number

Action
Correct the statement and restart Hercules.
HHCCF054E

HHCCF054E Incorrect Device count near character c

Explanation
The count field in a device count specification is invalid

Action
Correct the statement and restart Hercules.

HHCCF055E

HHCCF055E Incorrect device address specification near character c

Explanation
The first or only CUU in a device specification statement is invalid

Action
Correct the statement and restart Hercules.

HHCCF056E

HHCCF056E Incorrect device address range. CUU1>CUU2

Explanation
The first device number of a range is greater than the last device number

Action
Correct the statement and restart Hercules.

HHCCF057E

HHCCF057E CUU is on wrong channel (1st device defined on channel CC)

Explanation
At least one of the devices in a device number specification is on a different channel than a previously defined device number within the same specification. All device numbers on a single configuration line must be on a single channel (Group of 256 devices)

Action
Correct the statement and restart Hercules.

HHCCF058E

HHCCF058E Some or all devices in CUU-CUU duplicate devices already defined

Explanation
At least one of the device numbers on a device specification statement defines a device number that is already specified on that same statement.
Action
Correct the statement and restart Hercules.

HHCCF061W

HHCCF061W ECPS:VM Statement deprecated. Use ECPSVM instead

Explanation
The "ECPS:VM" statement was encountered. This statement is deprecated in favor of the "ECPSVM" statement.

Action
The configuration statement is still carried out but the statement syntax should be changed as soon as possible.

HHCCF062W

HHCCF062W Missing ECPSVM level value. 20 Assumed

Explanation
The "ECPSVM" statement keyword "LEVEL" was encountered but no numeric level followed it.

Action
The default level of 20 is used and the ECPS:VM feature is made available. The statement should be corrected as soon as possible.

HHCCF063W

HHCCF063W Specifying ECPSVM level directly is deprecated. Use the 'LEVEL' keyword instead

Explanation
The deprecated "ECPSVM" level syntax form (without the LEVEL keyword) was found.

Action
The ECPS:VM Level is set to the specified value. The configuration statement should be updated to include the "LEVEL" keyword.

HHCCF064W

HHCCF064W Hercules set priority priority failed: error

Explanation
An attempt to change the priority of the Hercules process to priority failed. The error is described by error. The process priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.
HHCCF065I
HHCCF065I Hercules: tid=threadid, pid=processid, pgid=processgroupid, priority=priority

Explanation
Hercules thread id is threadid, its process id is processid, its process group id is processgroupid and its execution priority is priority.

Action
None.

HHCCF066E
HHCCF066E Invalid HTTPROOT: error

Explanation
The pathname specified on your HTTPROOT statement is invalid. The error is described by error.

Action
Correct the error and restart Hercules.

HHCCF067S
HHCCF067S Incorrect keyword keyword for the ASN_AND_LX_REUSE statement

Explanation
The keyword specified for the ASN_AND_LX_REUSE statement is not ENABLE or DISABLE.

Action
Correct the error and restart Hercules.

HHCCF068E
HHCCF068E Invalid value: value; Enter "help scsimount" for help.

Explanation
The automatic SCSI tape mount value is not "NO" nor a value between 1 and 99 seconds inclusive.

Action
Reissue the SCSIMOUNT command.
HHCCF069I

HHCCF069I Run-options enabled for this run:
  NUMCPU: n
  ASN-and-LX-reuse: Enabled/Disabled
  DIAG8CMD: Enabled/Disabled

Explanation
This message confirms the setting of various run-time options specified in the configuration file at startup time.

Action
None.

HHCCF074E

HHCCF074E Unspecified error occurred while parsing Logical Channel Subsystem Identification

Explanation
A logic error occurred while parsing the Logical Channel Subsystem Identification component of a device number or device number group.

Action
Notify Hercules support. This is an error in the Hercules parsing routines.

HHCCF075E

HHCCF075E No more than 1 Logical Channel Subsystem Identification may be specified

Explanation
While specifying a device number or device number group, more than one ':' character was encountered while parsing the Logical Channel Subsystem Identification component. There can be only one Logical Channel Subsystem Identification for a device or group of devices.

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occurred while issuing a command or while starting the engine.

HHCCF076E

HHCCF076E Non numeric Logical Channel Subsystem Identification XX

Explanation
While specifying a device number or device number group, a non-decimal value was encountered while parsing the Logical Channel Subsystem Identification component. The Logical Channel Subsystem Identification for a device or group of devices must be specified as a numeric value.
Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occurred while issuing a command or while starting the engine.

HHCCF077E

HHCCF077E Logical Channel Subsystem Identification $NN$ exceeds maximum of 3

Explanation
While specifying a device number or device number group, a Logical Channel Identification was encountered that exceeded the architecture maximum value of $NN$. The Logical Channel Subsystem Identification for a device or group of devices must be within 0 and 3 (inclusive).

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occurred while issuing a command or while starting the engine.

HHCCF079A

HHCCF079A A licensed program product operating system has been detected. All processors have been stopped.

Explanation
Hercules has detected that the operating system is a licensed program product, but the PGMPRDOS LICENSED parameter was not specified in the Hercules configuration file.

Action
Hercules enters the stopped state. To run this operating system you must obtain a license from the operating system supplier and specify the PGMPRDOS LICENSED parameter in the configuration file. If you are unable to obtain a valid license allowing you to run this operating system on your machine, you must use another operating system (such as MVS 3.8J or Linux for System z) which does not require a license.

HHCCF081I

HHCCF081I $fname$ will ignore include errors.

Explanation
An ignore include_errors statement was encountered in file $fname$ requesting that any include statements subsequently found within file $fname$ which happen to reference include files which do not exist should simply cause a HHCCF084W warning instead of a HHCCF085S fatal error.

Action
Processing continues. This is an informational-only message.
HHCCF082S

HHCCF082S Error in fname line nnn: Maximum nesting level (nn) reached

Explanation
The maximum number of nested include statements has been exceeded. The include statement which caused the maximum nesting level of nn to be exceeded is identified as statement number nnn of file fname.

Action
This is a fatal error. Configuration file processing is immediately terminated and Hercules startup is aborted. Correct the error and restart Hercules.

HHCCF083I

HHCCF083I fname1 including fname2 at nnn.

Explanation
An include statement for file fname2 was encountered on line nnn of file fname1.

Action
Configuration file processing switches immediately to processing the statements contained in file fname2. Once all of the statements in file fname2 have been completely processed, configuration file processing will then return to statement nnn+1 of file fname1. This is an informational-only message.

HHCCF084W

HHCCF084W fname1 Open error ignored file fname2: error

Explanation
File fname1 contained an include statement for file fname2 which could not be opened because of error.

Action
Processing continues. This is a informational warning only. Check to make sure the filename specified by fname2 was spelled correctly and restart Hercules if desired.

HHCCF085S

HHCCF085S fname1 Open error file fname2: error

Explanation
File fname1 contained an include statement for file fname2 which could not be opened because of error.

Action
This is a fatal error. Configuration file processing is immediately terminated and Hercules startup is aborted. Correct any misspelling of filename fname2 and restart Hercules.
HHCCF086S

HHCCF086S Error in filename: NUMCPU nn must not exceed MAXCPU mm

Explanation
The number of online CPUs nn specified in the NUMCPU configuration statement in the file named filename cannot exceed the maximum number of CPUs mm specified in the MAXCPU configuration statement.

Action
Either decrease the NUMCPU parameter, or increase the MAXCPU parameter, and restart Hercules.

HHCCF089S

HHCCF089S Error in fname line linenum: Invalid log option keyword val

Explanation
File fname contains an invalid log option keyword val on line num.

Action
Correct the log option keyword in file fname and restart Hercules.
7. Messages HHCPnnns - CPU Emulation

HHCCP001W

HHCCP001W CPU thread set priority priority failed: error

Explanation
An attempt to change the priority of the CPU thread to priority failed. The error is described by error. The thread priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.

HHCCP002I

HHCCP002I CPU number thread started: tid=threadid, pid=processid, priority=priority

Explanation
The execution thread for CPU number number has been started. Its thread id is threadid, its process id is processid and its execution priority is priority.

Action
None.

HHCCP003I

HHCCP003I CPU number architecture mode mode

Explanation
CPU number has been set to the mode architecture mode.

Action
If a different architecture mode is desired, it may be changed with the ARCHMODE configuration statement or the archmode control panel command.

HHCCP004I

HHCCP004I CPU number Vector Facility online

Explanation
The Vector Facility for CPU number is online and available for use.

Action
None.
HHCCP005E

HHCCP005E CPU number thread already started

Explanation
An attempt was made to add CPU number number to the configuration. This CPU already exists.

Action
If another CPU is desired in the configuration, select a different number.

HHCCP006S

HHCCP006S Cannot create timer thread: error

Explanation
An attempt to create the thread used for timing functions has failed. The error is described by error. The CPU thread terminates and successful continuation of Hercules is not possible.

Action
Correct the error and restart Hercules.

HHCCP007I

HHCCP007I CPU number architecture mode set to mode

Explanation
CPU number number has been changed to the architecture mode mode.

Action
None.

HHCCP008I

HHCCP008I CPU number thread ended: tid=threadid, pid=processid

Explanation
The execution thread for CPU number number has ended. Its thread id was threadid, and its process id was processid.

Action
None.
**HHCCP009E**

**HHCCP009E CPU MASK MISMATCH: prevmask - currmask. Last instruction: instruction.**

**Explanation**
The CPU interrupt mask has changed unexpectedly. The previous mask was `prevmask` and the current mask is `currmask`. The last instruction executed was `instruction`. This is an internal error.

**Action**
Report this message and the circumstances to the Hercules developers.

**HHCCP010I**

**HHCCP010I CPU number store status completed.**

**Explanation**
CPU number `number` has completed a store status operation.

**Action**
None.

**HHCCP011I**

**HHCCP011I CPU number: Disabled wait state**

**Explanation**
CPU number `number` has entered a disabled wait state. It will not execute any further instructions unless it is reset or restarted. This is usually done to report a severe error in execution of an operating system.

**Action**
Correct the error denoted by the wait state code if applicable.

**HHCCP023I**

**HHCCP023I External interrupt: Interrupt key**

**Explanation**
The CPU has taken an external interrupt because the operator pressed the interrupt key or issued the panel command `ext`.

**Action**
None.
HHCCP024I

HHCCP024I External interrupt: Clock comparator

Explanation
The CPU has taken a clock comparator interrupt. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. External interrupts are part of normal system operation.

HHCCP025I

HHCCP025I External interrupt: CPU timer=xx...xx

Explanation
The CPU has taken a CPU timer interrupt. xx...xx is the hexadecimal value of the CPU timer. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. External interrupts are part of normal system operation.

HHCCP026I

HHCCP026I External interrupt: Interval timer

Explanation
The CPU has taken an external interrupt caused by the interval timer. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. External interrupts are part of normal system operation.

HHCCP027I

HHCCP027I External interrupt: Service signal intparm

Explanation
The CPU has taken a service signal external interrupt. intparm is the interrupt parameter. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. External interrupts are part of normal system operation.
HHCCP090W

The configuration has been placed into a system check-stop state because of an incompatible service call

Explanation
A READ SCP INFO (code X'00020001') Service call has been issued from a CPU which is not a CP engine. All the CPUs in the configuration are put into a Check-Stop state.

Action
Ensure the CPU that issues the service call is a CP engine and restart the program.
8. Messages HHCCTnnns -
Channel-to-Channel Adapter Emulation

HHCCTnnns
Messages HHCCTnnns are not yet documented.
9. Messages HHCCUnnns - CCKD Utilities

9.1 Format of the CCKD utilities messages

Messages generate by the CCKD utilities are in the format message_id file message_text. The format of
the message ID is the same as with all other Hercules messages. file will either be the part of the file
name following the last slash ("/" or "\") when called by a utility command, or will be xxxx: file[n] where
xxxx is the device number and n is the shadow file number when called by Hercules.

The file portion of the message is omitted in the sections below for brevity.

HHCCU101I

HHCCU101I converting to endian-format

Explanation
The file is in the wrong endian (byte order) format for the host architecture. The file is being converted to
the host endian format endian-format.

Action
None.

HHCCU102I

HHCCU102I compress successful, n bytes released

Explanation
The compress function successfully completed and free n bytes from the file. If n is 0, then the level 2
tables were repositioned to the beginning of the file in order.

Action
None.

HHCCU103I

HHCCU103I file already compressed

Explanation
The compress function determined that the file is already compressed. The file is not updated.

Action
None.
HHCCU104I

HHCCU104I free space rebuilt

Explanation
Free space errors were detected and free space has been successfully rebuilt.

Action
None.

HHCCU300I

HHCCU300I number space images recovered

Explanation
Recovery phase 1 completed, recovering number spaces (trks or blkgrps).

Action
None.

HHCCU301I

HHCCU301I space[id] recovered offset offset len length

Explanation
The space space (trk or blkgrp) was recovered at offset offset and length length. id is the trk or blkgrp number.

Action
None.

HHCCU500W

HHCCU500W recovery not completed, file opened read-only

Explanation
Phase 3 recovery did not complete because the file is not opened for write.

Action
Omit the -ro option for cckdcdisk or change the file permissions to enable the file to be opened for read-write for Hercules.

HHCCU501W

HHCCU501W recovery not completed, missing compression

Explanation
Phase 3 recovery did not complete because one or more trk or blkgrp images were compressed using a compression (zlib or bzip2) that was not built into Hercules.
Action
Processing terminates. The file has not been updated. Build Hercules with the missing compression libraries.

HHCCU502W

HHCCU502W free space not rebuilt, file opened read-only

Explanation
Free space errors were detected but the free space was not rebuilt because the file is not opened for write.

Action
Omit the -ro option for cckdcsk or change the file permissions to enable the file to be opened for read-write by Hercules.

HHCCU600W

HHCCU600W forcing check level level[; reason]

Explanation
Errors have been detected in the compressed file that warrant the escalation of the check level to level. An additional explanation reason may be supplied.

Action
At a minimum, free space will be rebuilt.

HHCCU601W

HHCCU601W cdevhdr inconsistencies found code=code

Explanation
The space statistics in the cckddasd device header (cdevhdr) contain inconsistencies described by code. code is a 16-bit bit field and more than one bit may be on. See cckdutil.c for the different bit settings.

Action
At a minimum, free space will be rebuilt.

HHCCU602W

HHCCU602W space offset offset len length is out of bounds

Explanation
The space space (trk, blkgrp or l2) either precedes the end of the L1 table (at the beginning of the file) or exceeds the end of the file.

Action
The space will be recovered. If the space is an L2 table, then all tracks or block groups associated with the table will also be recovered.
HHCCU603W

HHCCU603W space1 offset offset1 len length overlaps space2 offset offset2

Explanation
The space space1 overlaps space space2.

Action
The spaces will be recovered. If either space is an L2 table, then all tracks or block groups associated with that table will also be recovered.

HHCCU604W

HHCCU604W space l2 inconsistency: len length, size size

Explanation
The space space (trk or blkgrp) has an inconsistent L2 entry. Either the length length is too small or is too large or exceeds the size size.

Action
The space will be recovered.

HHCCU610W

HHCCU610W free space errors detected

Explanation
Free space is not consistent.

Action
Free space will be rebuilt.

HHCCU620W

HHCCU620W space[id] hdr error offset offset: xxxxxxxxxx

Explanation
A header error was found for space (trk or blkgrp) during validation. id is the trk or blkgrp number. The header is located at file offset offset. The contents of the 5 byte header is xxxxxxxxxx in hex.

The first byte of the header should be either 00 (compress none), 01 (compress zlib) or 02 (compress bzip2).

For ckd, the next two bytes is the cylinder (in big-endian byte order) and the two bytes after that is the head (also in big-endian byte order).

For fba, the next four bytes is the block group number (in big-endian byte order).

The header contains an invalid value. Either the offset is incorrect or the header has been overlaid.

Action
The space will be recovered.
HHCCU621W

HHCCU621W space[id] compressed using compression, not supported

Explanation
During validation, the header for space (trk or blkgrp) indicates that the space was compressed using compression (zlib or bzip2) but support for that compression method was not built into Hercules. id is the trk or blkgrp number.

Action
Processing continues. However no recovery will take place. Build Hercules with the specified compression library.

HHCCU622W

HHCCU622W space[id] offset offset len length validation error

Explanation
The space (trk or blkgrp) at offset offset and length length failed validation. id is the trk or blkgrp number. Either the space did not uncompress successfully or the uncompressed space contains some kind of error. This error is detected during check level 3 validation.

Action
The space will be recovered.

HHCCU700E

HHCCU700E open error: error text

Explanation
Open failed for the file. The text associated with the error number is displayed.

Action
Processing for the file terminates.

HHCCU701E

HHCCU701E fstat error: error text

Explanation
The file status system call failed. The text associated with the error number is displayed.

Action
Function processing terminates. Probable Hercules logic error. Contact the Hercules mailing list for assistance.
HHCCU702E

HHCCU702E lseek error offset offset: error text

Explanation
File reposition to offset offset failed. The text associated with the error number is displayed.

Action
Function processing terminates. Probable Hercules logic error. Contact the Hercules mailing list for assistance.

HHCCU703E

HHCCU703E read error rc=retcode offset offset len length: error text

Explanation
A read failed at offset offset for length length. If retcode is not negative then the read was incomplete and the value indicates how many bytes were read. Otherwise the text associated with the error number is displayed.

Action
Function processing terminates. Possible Hercules logic error. Possible hardware error. Contact the hercules mailing list for assistance.

HHCCU704E

HHCCU704E write error rc=retcode offset offset len length: error text

Explanation
A write failed at offset offset for length length. If retcode is not negative then the write was incomplete and the value indicates how many bytes were written. Otherwise the text associated with the error number is displayed.

Action
Function processing terminates. Possible Hercules logic error. Possible hardware error. Contact the hercules mailing list for assistance.

HHCCU705E

HHCCU705E malloc error, size size: error text

Explanation
Malloc (allocate memory) failed for size size.

Action
Function processing terminates. Try reducing Hercules storage requirements (e.g. mainsize).
HHCCU706E

HHCCU706E calloc error, size size: error text

Explanation
Calloc (allocate cleared memory) failed for size size.

Action
Function processing terminates. Try reducing Hercules storage requirements (eg mainsize).

HHCCU707E

HHCCU707E OPENED bit is on, use -f

Explanation
The file OPENED bit is on in the cckd header but -f was not specified.

Action
File processing terminates. Make sure the file is not in use. If it is not, try the command again specifying the -f option.

HHCCU708E

HHCCU708E chkdsk errors

Explanation
The utility called cckd_chkdsk for the file and it returned in error.

Action
File processing terminates. Perform the actions suggested by the preceding cckd_chkdsk errors.

HHCCU900E

HHCCU900E dasd lookup error type=type cyls=cyls

Explanation
The device type type from the device header along with the number of cylinders cyls did not match a table entry in dasdtab.c. Note that type is the last two bytes of the device type (eg 90 for a 3390 device type).

Action
Function processing terminates. Specify the correct file name or manually correct the device header.

HHCCU901E

HHCCU901E bad trksize: size1, expecting size2

Explanation
The track size size1 from the device header does match the track size size2 from the table entry in dasdtab.c.
**Action**
Function processing terminates. Specify the correct file name or manually correct the device header.

---

**HHCCU902E**

**HHCCU902E** bad number of heads: heads1, expecting heads2

**Explanation**
The number of heads heads1 from the device header does match the number of heads heads2 from the table entry in dasdtab.c.

**Action**
Function processing terminates. Specify the correct file name or manually correct the device header.

---

**HHCCU903E**

**HHCCU903E** bad `numl1tab`: nbr1, expecting nbr2

**Explanation**
The number of L1 table entries nbr1 in the cckd device header does not match the number calculated nbr2. The number calculated is the number of cylinders times the number of heads (i.e. the number of tracks) divided by 256, rounded up by 1 if there is a remainder.

**Action**
Function processing terminates. Specify the correct file name or manually correct the device headers.

---

**HHCCU904E**

**HHCCU904E** file too small to contain L1 table: %size1, need size2

**Explanation**
The size of the file size1 is not large enough to contain all L1 table entries; the size required is size2. The minimum size of a cckd file is 512 + 512 + ( 4 * number of L1 entries).

**Action**
Function processing terminates. Specify the correct file name.

---

**HHCCU905E**

**HHCCU905E** not enough file space for recovery

**Explanation**
During phase 2 recovery there was not enough space in the maximum file size to contain the rebuilt L2 tables. This is an unusual situation and probably indicates some kind of programming error.

**Action**
Function processing terminates. The file has not been updated. Contact the hercules mailing list for assistance.
HHCCU910E

HHCCU910E error during swap

Explanation
Error occurred during cckd_swap().

Action
See the preceding error messages.

HHCCU999E

HHCCU999E not a compressed file

Explanation
The first 8 bytes of the file did not match an expected identifier. For a cckd file, the identifier must be either CKD_C370 or CKD_S370. For a cfba file, the identifier must be either FBA_C370 or FBA_S370.

Action
Function processing terminates. Specify the correct file name.
10. Messages HHCDAnnns -
DASD Emulation (CKD, CCKD and FBA)

HHCDAnnns

Messages HHCDAnnns are not yet documented.
### HHCDC001E

**Explanation**
An error was encountered when trying to open the input file named *filename* to determine its type. The error is described by *error*.

**Action**
Correct the error and retry the operation.

### HHCDC002E

**Explanation**
An error was encountered when trying to read the input file named *filename* to determine its type. The error is described by *error*.

**Action**
Correct the error and retry the operation.

### HHCDC003E

**Explanation**
An error was encountered when trying to open the input file named *filename* for copying. A previous message described the error.

**Action**
Correct the error and retry the operation.

### HHCDC004E

**Explanation**
There was no disk drive table entry that matched the number of cylinders in the CKD source file, *size*.
The program cannot determine how much data to copy.

**Action**
Correct the error and retry the operation.
HHCDC005E

HHCDC005E progname: fba lookup failed, blks size

Explanation
There was no disk drive table entry that matched the number of blocks in the FBA source file, size. The program cannot determine how much data to copy.

Action
Correct the error and retry the operation.

HHCDC006E

HHCDC006E progname: filename create failed

Explanation
An error was encountered when trying to create the output file named filename. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC007E

HHCDC007E progname: filename open failed

Explanation
An error was encountered when trying to open the newly created output file named filename. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC008E

HHCDC008E progname: filename read error (track|block) number stat=status

Explanation
An error was encountered when trying to read a block or track from the input file named filename. The block or track is number number. The status returned is shown as status.

Action
Correct the error and retry the operation.
HHCDC009E

HHCDC009E proname: filename write error (track|block) number stat=status

Explanation
An error was encountered when trying to read a block or track from the input file named filename. The block or track is number number. The status returned is shown as status.

Action
Correct the error and retry the operation.

HHCDC010I

HHCDC010I Copy successful !!!

Explanation
The copy operation has completed successfully.

Action
None.
12. Messages HHCDGnnns - Dyngui.DLL

HHCDG001I
HHCDG001I dyngui.dll - name - version vers initiated

Explanation
The dyngui loadable module was successfully loaded and initiated.

Action
None. This message is informational only.

HHCDG002I
HHCDG002I dyngui.dll terminated

Explanation
The dyngui loadable module was successfully terminated.

Action
None. This message is informational only.

HHCDG003S
HHCDG003S select failed on input stream: errmsg

Explanation
The socket select function call failed on the input stream. errmsg describes the exact error.

Action
None; this is a fatal error, the system is immediately terminated.

HHCDG004S
HHCDG004S read failed on input stream: errmsg

Explanation
An unrecoverable i/o error occurred while reading from the input stream. errmsg describes the exact error.

Action
None; this is a fatal error; the system is immediately terminated.

HHCDG005E
HHCDG005E Device query buffer overflow! (device=xxxx)

Explanation
The device query buffer is not large enough to hold all of the information returned by the device handler. xxxx is the device whose information was being queried at the time the error occurred.
**Action**
The system attempts to continue functioning but unpredictable results may occur (i.e. the system could crash). You should report this error to the Hercules developers immediately so that they can build you a new dyngui.dll with a larger device query buffer. Since the dyngui.dll is an unloadable module you will need to restart Hercules in order to begin using the newly fixed version of dyngui.dll.

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**HHCDG006S**

**HHCDG006S malloc pszInputBuff failed: errmsg**

**Explanation**
There was not enough virtual memory on the host system to satisfy the malloc request for the input stream buffer. *errmsg* describes the exact error.

**Action**
None; this is a fatal error, the system is immediately terminated. You should increase the size of your host system's virtual memory allocation so that there is enough for Hercules to run, or else decrease the amount of memory that Hercules needs in order to run (e.g. decrease your MAINSIZE value).

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**HHCDG007S**

**HHCDG007S malloc pszCommandBuff failed: errmsg**

**Explanation**
There was not enough virtual memory on the host system to satisfy the malloc request for the command processing buffer. *errmsg* describes the exact error.

**Action**
None; this is a fatal error, the system is immediately terminated. You should increase the size of your host system's virtual memory allocation so that there is enough for Hercules to run, or else decrease the amount of memory that Hercules needs in order to run (e.g. decrease your MAINSIZE value).
13. Messages HHCDInnns - DASDINIT Utility

**HHCDI001I**

HHCDI001I DASD initialization successfully completed.

**Explanation**
The requested DASD volume has been successfully initialized and is ready for use.

**Action**
None.

**HHCDI002I**

HHCDI002I DASD initialization unsuccessful.

**Explanation**
Initialization of the requested DASD volume was not successful.

**Action**
Refer to preceding error messages to determine the cause.
14. Messages HHCDLnnns - DASDLOAD Utility

HHCDL001E

HHCDL001E Cannot open filename: error

Explanation
The control file named filename cannot be opened. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL002E

HHCDL002E Volume serial statement missing from filename

Explanation
The control file named filename does not contain a volume serial statement. A volume serial is required.

Action
Supply a volume serial statement and rerun dasdload.

HHCDL003E

HHCDL003E Volume serial serial in filename line lineno is not valid

Explanation
The volume serial serial supplied in line lineno of the control file named filename is not valid. It must be from one to six characters long.

Action
Supply a valid volume serial and rerun dasdload.

HHCDL004E

HHCDL004E Device type type in filename line lineno is not recognized

Explanation
The device type type specified in line lineno of the control file named filename is not a supported CKD device.

Action
Specify a supported CKD device type and rerun dasdload.
HHCDL005E

HHCDL005E count in filename line lineno is not a valid cylinder count

Explanation
The requested number count of cylinders for the volume in line lineno of the control file named filename is invalid. It must be a decimal number.

Action
Supply a valid cylinder count and rerun dasdload.

HHCDL006I

HHCDL006I Creating type volume serial: tracks trks/cyl, length bytes/track

Explanation
The volume named serial of type type is being created with tracks tracks per cylinder and length bytes per track.

Message Level
0.

Action
None.

HHCDL007E

HHCDL007E Cannot create filename

Explanation
The DASD image file named filename cannot be created. A previous message described the problem.

Action
Correct the reported error and rerun dasdload.

HHCDL008E

HHCDL008E Cannot open filename

Explanation
The DASD image file named filename could not be opened. A previous message described the problem.

Action
Correct the reported error and rerun dasdload.
HHCDL009I

HHCDL009I Loading type volume serial

Explanation
The newly created volume with serial serial of type type is being loaded.

Message Level
0.

Action
None.

HHCDL010E

HHCDL010E Cannot obtain storage for DSCB pointer array: error

Explanation
An attempt to obtain storage for the array of DSCB pointers, which will populate the VTOC, failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL011E

HHCDL011E Invalid statement in filename line lineno

Explanation
An invalid control statement was found at line lineno of the control file named filename.

Action
Correct the invalid statement and rerun dasdload.

HHCDL012I

HHCDL012I Creating dataset dsn at cyl cylinder head head

Explanation
The dataset named dsn is being created. It begins at cylinder cylinder head head.

Message level
1

Action
None.
HHCDL013I

HHCDL013I Dataset dsn contains size tracks

Explanation
The dataset named dsn is size tracks long.

Message level
2

Action
None.

HHCDL014I

HHCDL014I Free space starts at cyl cylinder head head

Explanation
Free space on the volume begins at cylinder cylinder head head and extends to the end of the volume.

Message level
1

Action
None.

HHCDL015W

HHCDL015W Volume exceeds cylinders

Explanation
The amount of space used on the volume exceeds the number of cylinders cylinders requested in the control file. The number of cylinders was explicitly requested instead of being allowed to default to the size of a full volume for the device type. The volume has been extended to accommodate the data written.

Action
Specify more cylinders in the control file or allow the number to default.

HHCDL016I

HHCDL016I Total of count cylinders written to filename

Explanation
A total of count cylinders have been written to the DASD image file named filename.

Message level
0

Action
None.
HHCDL017I

HHCDL017I Updating VTOC pointer pointer

Explanation
The pointer to the VTOC in the volume label is being updated to point to the VTOC at location pointer.

Message level
5

Action
None.

HHCDL018E

HHCDL018E Cannot read VOL1 record

Explanation
An attempt to read the volume label failed. A previous message described the error.

Action
Correct the error and rerun dasdload.

HHCDL019E

HHCDL019E Cannot read filename line lineno: error

Explanation
An error was encountered while trying to read the statement at line number lineno of the control file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL020E

HHCDL020E Line too long in filename line lineno

Explanation
The line at line number lineno of the control file named filename is too long to be processed. This error can be caused by failing to terminate the last line with an end-of-line marker.

Action
Correct the error and rerun dasdload.
HHCDL021E

HHCDL021E DSNAME or initialization method missing

Explanation
Either the dataset name or the method to be used to initialize it is missing from the control file. Both are required.

Action
Supply the missing value and rerun dasdload.

HHCDL022E

HHCDL022E Invalid initialization method: method

Explanation
The method specified to initialize the dataset method is invalid. It must be one of xmit, vs, empty, dip, cvol, vtoc, or seq.

Action
Correct the initialization method and rerun dasdload.

HHCDL023E

HHCDL023E Initialization file name missing

Explanation
A dataset was specified as being initialized by either the xmit, vs, or seq initialization methods but no source file was specified to provide the data to be loaded.

Action
Specify a source file name or specify the empty dataset initialization method if the dataset is not to be loaded.

HHCDL024E

HHCDL024E Invalid allocation units: units

Explanation
The allocation unit specified units is invalid. It must be either cyl or trk.

Action
Specify a valid allocation unit and rerun dasdload.
HHCDL025E

HHCDL025E Invalid primary space: space

Explanation
The primary space requested space is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL026E

HHCDL026E Invalid secondary space: space

Explanation
The secondary space requested space is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL027E

HHCDL027E Invalid directory space: space

Explanation
The PDS directory space requested space is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL028E

HHCDL028E Invalid dataset organization: dsorg

Explanation
The requested dataset organization dsorg is invalid. It must be one of is, ps, da, or po.

Action
Specify a valid dataset organization and rerun dasdload.

HHCDL029E

HHCDL029E Invalid record format: recfm

Explanation
The requested record format recfm is invalid. It must be one of f, fb, fbs, v, vb, vbs, or u.

Action
Specify a valid record format and rerun dasdload.
HHCDL030E

HHCDL030E Invalid logical record length: lrecl

Explanation
The requested logical record length lrecl is invalid. It must be a decimal number between 0 and 32767.

Action
Specify a valid logical record length and rerun dasdload.

HHCDL031E

HHCDL031E Invalid block size: blksize

Explanation
The requested block size blksize is invalid. It must be a decimal number between 0 and 32767.

Action
Specify a valid block size and rerun dasdload.

HHCDL032E

HHCDL032E Invalid key length: keylen

Explanation
The requested key length keylen is invalid. It must be a decimal number between 0 and 255.

Action
Specify a valid key length and rerun dasdload.

HHCDL033E

HHCDL033E CCHH=cchh not found in extent table

Explanation
The absolute track address cchh was not found in the table listing the locations occupied by the dataset being loaded. There is likely a problem with the input file.

Action
Correct the input file and rerun dasdload.

HHCDL034E

HHCDL034E Cannot open filename: error

Explanation
The file named filename, which was specified as the source of IPL text to be written to the volume, could not be opened. The error is described by error.
**HHCDL035E**

**HHCDL035E Cannot read filename: error**

**Explanation**
An error was encountered while reading the IPL text file named `filename`. The error is described by `error`. If no error is reported, the file did not contain an integral number of 80-byte card images.

**Action**
Correct the reported error or supply a valid IPL text file consisting of 80-byte card images and rerun dasdload.

---

**HHCDL036E**

**HHCDL036E filename is not a valid object file**

**Explanation**
The IPL text file named `filename` is not a valid object file. A record read from the file did not contain the required flag in the first byte.

**Action**
Supply a valid object file and rerun dasdload.

---

**HHCDL037I**

**HHCDL037I IPL text address=addr length=length**

**Explanation**
The object code from the current record of the IPL text file will be loaded into memory at address `address`, and is `length` bytes long.

**Message level**
5

**Action**
None.

---

**HHCDL038E**

**HHCDL038E TXT record in filename has invalid count length**

**Explanation**
A text record in the IPL text file named `filename` has an invalid length `length`. The length cannot exceed 56.

**Action**
Supply a valid IPL text file and rerun dasdload.
HHCDL039E

HHCDL039E IPL text in `filename` exceeds `buflen` bytes

Explanation
The IPL text file named `filename` is too long to fit in the available space on the volume. The IPL text cannot exceed `buflen` bytes in length.

Action
Supply a shorter IPL text file or specify a volume with a larger track size and rerun dasdload.

HHCDL040E

HHCDL040E Input record CCHHR=`cchhr` exceeds output device track size

Explanation
The block to be written at absolute address `cchhr` is too large to fit on a track on the disk being loaded.

Action
Specify a device with a larger track size and rerun dasdload.

HHCDL041E

HHCDL041E Dataset exceeds extent size: reltrk=track, maxtrk=maxtrak

Explanation
The data to be written to the dataset is too large for the space requested for it. If the space request was allowed to default, the input file is corrupt.

Action
If the space request was made explicitly, then request more space. If the request was defaulted, supply a valid input file. Rerun dasdload.

HHCDL042E

HHCDL042E Input record CCHHR=`cchhr` exceeds virtual device track size

Explanation
The block to be written at absolute address `cchhr` is too large to fit on a track on the disk being loaded. In addition, this message being issued instead of message HHCDL040E indicates an internal inconsistency in the way Hercules computes the space available on a track.

Action
Specify a device with a larger track size and rerun dasdload. Report the inconsistency to the Hercules development team.
HHCDL043E

HHCDL043E  filename cyl cylinder head head read error

Explanation
The data at cylinder cylinder, head head of the disk image file named filename could not be read in order to be updated. A previous message described the error.

Action
Correct the previously reported error and rerun dasdload.

HHCDL044E

HHCDL044E  filename cyl cylinder head head invalid track header header

Explanation
The track header header at cylinder cylinder, head head in the disk image file named filename contained an address that did not match the actual address.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL045E

HHCDL045E  filename cyl cylinder head head record record record not found

Explanation
The record requested for update at cylinder cylinder, head head, record record of the DASD image file named filename was not found.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL046E

HHCDL046E Cannot update cyl cylinder head head rec record: Unmatched KL/DL

Explanation
The record to be written at cylinder cylinder, head head, record record does not have the same key or data length as the record that already exists at that location. This is not allowed for a record update operation.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.
HHCDL047E

HHCDL047E filename cyl cylinder head head read error

Explanation
A read error was encountered when reading the track at cylinder cylinder, head head, in the disk image file named filename. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL048I

HHCDL048I Updating cyl cylinder head head rec record kl keylen dl datalen

Explanation
The record at cylinder cylinder, head head, record record is being updated. It has a key length of keylen and data length datalen.

Message level
4

Action
None.

HHCDL049E

HHCDL049E Cannot obtain storage for DSCB: error

Explanation
An attempt to obtain storage to build a DSCB to describe a dataset on the volume being loaded failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL050E

HHCDL050E DSCB count exceeds maximum, increase MAXDSCB

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.
HHCDL051E

HHCDL051E Cannot obtain storage for DSCB: error

Explanation
An attempt to obtain storage to build a DSCB to describe the VTOC on the volume being loaded failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL052E

HHCDL052E DSCB count exceeds maximum, increase MAXDSCB

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.

HHCDL053E

HHCDL053E Cannot obtain storage for DSCB: error

Explanation
An attempt to obtain storage to build a DSCB to describe the free space on the volume being loaded failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL054E

HHCDL054E DSCB count exceeds maximum, increase MAXDSCB

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.
HHCDL055E

HHCDL055E VTOC too small, tracks tracks required

Explanation
The VTOC allocation of tracks is too small to hold the VTOC.

Action
Specify at least tracks tracks for the VTOC and rerun dasdload.

HHCDL056E

HHCDL056E Error reading VTOC cyl cylinder head head

Explanation
The first track of the VTOC could not be read so it could be updated. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL057I

HHCDL057I VTOC starts at cyl cylinder head head and is tracks tracks

Explanation
The VTOC on the volume being loaded starts at cylinder cylinder, head head and is tracks tracks long.

Message level
1

Action
None.

HHCDL058I

HHCDL058I Format format DSCB CCHHR=chhr (TTR=ttr) dsname

Explanation
The format format DSCB is located at absolute address chhr and relative address within the VTOC ttr. If format is 1, the dataset described by the DSCB is named dsname.

Message level
4

Action
None.
HHCDL059I

HHCDL059I Format 0 DSCB CCHHR cchhr (TTR=ttr)

Explanation
A format 0 (empty) DSCB is located at absolute address cchhr and relative address within the VTOC ttr.

Message level
4

Action
None.

HHCDL060E

HHCDL060E Error reading track cyl cylinder head head

Explanation
An error was encountered reading the track at cylinder cyl, head head. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL061E

HHCDL061E Incomplete text unit

Explanation
An text unit read from the input file was too short to contain a valid header. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL062I

HHCDL062I position tuname key fields

Explanation
The text unit at position of the input buffer has the name tuname and the numeric key value key. There are fields fields in the text unit.

Message level
4

Action
None.
HHCDL063E
HHCDL063E Too many fields in text unit

Explanation
A text unit was read from the input file that had too many fields in the header for that type of text unit. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL064E
HHCDL064E Incomplete text unit

Explanation
A text unit read from the input file was too short to contain a valid field length. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL065E
HHCDL065E Incomplete text unit

Explanation
A text unit read from the input file was shorter than the length in the field header. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL066E
HHCDL066E filename read error: error

Explanation
An error was encountered when reading the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL067E
HHCDL067E filename invalid segment header: header

Explanation
A segment read from the file named filename has an invalid header header. The input file is probably corrupt.
Action
Supply a valid input file and rerun dasdload.

HHCDL068E

HHCDL068E filename first segment indicator expected

Explanation
A segment read from the file named filename should have the first segment indicator set but does not. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL069E

HHCDL069E filename first segment indicator not expected

Explanation
A segment read from the file named filename should not have the first segment indicator set but does. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL070E

HHCDL070E filename control record indicator mismatch

Explanation
There was a mismatch between the first segment and the control record. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL071E

HHCDL071E filename read error: error

Explanation
An error was encountered when reading a segment from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.
HHCDL072E

HHCDL072E filename read error: error

Explanation
An error was encountered when reading a COPYR1 record from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL073E

HHCDL073E filename read error: error

Explanation
An error was encountered when reading a COPYR2 record from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL074E

HHCDL074E filename read error: error

Explanation
An error was encountered when reading a data block header from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL075E

HHCDL075E filename read error: error

Explanation
An error was encountered when reading a data block from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.
HHCDL076I

HHCDL076I File number: number

Explanation
The file being processed is number number.

Message level
4

Action
None.

HHCDL077E

HHCDL077E Invalid text unit at offset offset

Explanation
An invalid text unit was read from position offset. A previous message described the error. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL078I

HHCDL078I File filenum: DNAME=dsname

Explanation
The dataset name of file number filenum is dsname.

Message level
2

Action
None.

HHCDL079I

HHCDL079I DSORG=dsorg RECFM=recfm LRECL=lrec l BLKSIZE=blksize KEYLEN=keylen
DIRBLKS=dirblks

Explanation
For the dataset listed in the preceding HHCDL078I message the dataset organization is dsorg, the record format is recfm, the logical record length is lrec, the block size is blksize, the key length is keylen and the directory block count is dirblks.

Message level
2
HHCDL080E

HHCDL080E Invalid text unit at offset offset

Explanation
An invalid text unit was read from position offset. A previous message described the error. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL081E

HHCDL081E COPYR1 record length is invalid

Explanation
The length of the COPYR1 record is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL082E

HHCDL082E COPYR1 header identifier not correct

Explanation
The header identifier of the COPYR1 record is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL083E

HHCDL083E COPYR1 unload format is unsupported

Explanation
The COPYR1 record indicates that the file was unloaded in a format that is not supported by dasdload. The file may be corrupt or it may simply be in a newer format than is supported by this version of dasdload.

Action
Supply a supported input file and rerun dasdload.
HHCDL084I

HHCDL084I Original dataset: DSORG=dsorg RECFM=rcfm LRECL=lrecl BLKSIZE=blksize KEYLEN=keylen

Explanation
For the original dataset, the dataset organization is dsorg, the record format is rcfm, the logical record length is lrecl, the block size is blksize, the key length is keylen and the directory block count is dirblks.

Message level
2

Action
None.

HHCDL085I

HHCDL085I Dataset was unloaded from device type ucbtype (device)

Explanation
The dataset was unloaded from a device device, with UCB device type ucbtype.

Message level
2

Action
None.

HHCDL086I

HHCDL086I Original device has cylinders cys and heads heads

Explanation
The device listed in the preceding HHCDL085I message has cylinders cylinders and heads heads.

Message level
2

Action
None.

HHCDL087E

HHCDL087E COPYR2 record length is invalid

Explanation
The length of the COPYR2 record just read is not valid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.
HHCDL088E

HHCDL088E Invalid number of extents extents

Explanation
The number of extents reported in the COPYR2 record is invalid, either less than 1 or more than 16. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL089I

HHCDL089I Extent extent: Begin CCHH=begcchh End CCHH=endcchh Tracks=tracks

Explanation
For extent number extent, the extent starts at cylinder and head begcchh, and ends at endcchh, for a total of tracks tracks.

Message level
4

Action
None.

HHCDL090I

HHCDL090I End of directory

Explanation
The end of the PDS directory has been reached.

Message level
3

Action
None.

HHCDL091E

HHCDL091E Directory block record length is invalid

Explanation
The directory block read from the input file has the wrong length. It must be 276 bytes long. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.
HHCDL092E

HHCDL092E Cannot obtain storage for directory block: error

Explanation
An attempt to obtain storage for the directory block being processed failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL093E

HHCDL093E Number of directory blocks exceeds maxdblk, increase MAXDBLK

Explanation
The number of directory blocks in the dataset being processed exceeds the size of an internal control structure. The maximum number is maxdblk.

Action
Increase the value of the constant MAXDBLK in the program source and recompile dasdload.

HHCDL094E

HHCDL094E Directory block byte count is invalid

Explanation
The length of the current directory block is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL095I

HHCDL095I (Alias|Member) memname TTR=ttr
Userdata=userdata

Explanation
The alias or member named memname is located at relative address ttr. If user data is present, it is printed as userdata.

Message level
3

Action
None.
HHCDL096I

HHCDL096I Member name TTR=oldttr replaced by newttr

Explanation
In the directory entry for member name, the old pointer to the member oldttr was replaced by the member's actual relative address newttr.

Message level
4

Action
None.

HHCDL097E

HHCDL097E Member name TTR=ttr not found in dataset

Explanation
A request was made to update the directory entry for the member named name but there was no directory entry to update.

Action
This is likely an internal logic error. Report the error to the Hercules development team.

HHCDL098I

HHCDL098I Updating note list for member name at TTR=ttr CCHHR=cchhr

Explanation
The note list for the member named name, at relative address ttr, absolute address cchhr, is being updated.

Message level
4

Action
None.

HHCDL099E

HHCDL099E filename cyl cylinder head head read error

Explanation
An attempt to read the track in the DASD image file named filename at cylinder cylinder, head head, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.
HHCDL100E

HHCDL100E *filename cyl cylinder head head invalid track header header*

**Explanation**
The header *header* of the track in the DASD image file named *filename* at cylinder *cylinder*, head *head* did not agree with the actual address of the track. This is probably an internal logic error.

**Action**
Report the error to the Hercules development team.

HHCDL101E

HHCDL101E *filename cyl cylinder head head rec record note list record not found*

**Explanation**
A request was made to update a note list record at cylinder *cylinder*, head *head*, record *record*, but the record was not found. The input dataset may be corrupt.

**Action**
Supply a valid input dataset and rerun dasdload.

HHCDL102E

HHCDL102E *Member member note list at cyl cylinder head head rec record dlen datalen is too short for numttrs TTRs*

**Explanation**
The data length *datalen* of the note list record for member *member* at cylinder *cylinder*, head *head*, record *record*, is too short to contain the requested number *numttrs* of record pointers. The input dataset is probably corrupt.

**Action**
Supply a valid input dataset and rerun dasdload.

HHCDL103E

HHCDL103E *filename track read error cyl cylinder head head*

**Explanation**
An attempt to read the track in the DASD image file named *filename* at cylinder *cylinder*, head *head*, failed. A previous error described the failure.

**Action**
correct the error reported by the previous message and rerun dasdload.
HHCDL104I

HHCDL104I Updating cyl cylinder head head rec record kl keylen dl datalen

Explanation
The record at cylinder cylinder, head head, record record, with key length keylen and data length datalen is being updated.

Message level
4

Action
None.

HHCDL105E

HHCDL105E Directory block byte count is invalid

Explanation
The length of the current directory block is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL106E

HHCDL106E Cannot open file filename: error

Explanation
An attempt to open the IEBCOPY input file named filename failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL107E

HHCDL107E Cannot obtain input buffer: error

Explanation
An attempt to obtain a 64K byte input buffer for reaading the IEBCOPY input file failed. The error is described by error.

Action
Correct the error and rerun dasdload.
HHCDL108E

HHCDL108E Cannot obtain storage for directory block array: error

Explanation
An attempt to obtain storage for the internal array used to store directory blocks failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL109E

HHCDL109E Cannot obtain storage for TTR table: error

Explanation
An attempt to obtain storage for the internal array used to store track pointers for later conversion failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL110I

HHCDL110I Processing file filename

Explanation
The input file named filename is being processed.

Message level
1

Action
None.

HHCDL111I

HHCDL111I Control record: recname length length

Explanation
A control record named recname of length length has been read.

Message level
4

Action
None.
HHCDL112I

HHCDL112I File number: filenum ((not) selected)

Explanation
The data file, number filenum, was (or was not) selected for processing.

Message level
4

Action
None.

HHCDL113I

HHCDL113I Data record: length length

Explanation
A data record of length length has been read.

Message level
4

Action
None.

HHCDL114E

HHCDL114E write error: input record CCHHR=chhr (TTR=ttr) KL=keylen DL=datalen

Explanation
An error was encountered writing the data record at absolute address cchhr, relative address ttr, with key length keylen and data length datalen. A previous message described the error.

Action
Correct the error described by the previous message and rerun dasdload.

HHCDL115I

HHCDL115I CCHHR=incchhr (TTR=inttr) KL=keylen DL=datalen -> CCHHR=outcchhr (TTR=outttr)

Explanation
The record at absolute address incchhr, relative address inttr, with key length keylen and data length datalen, is being written to the output DASD image at absolute address outcchhr, relative address outttr.

Message level
4

Action
None.
HHCDL116E

HHCDL116E TTR count exceeds maxttr, increase MAXTTR

Explanation
The list of relative address pointers exceeds the size of the internal array used to contain them, maxttr.

Action
Increase the constant MAXTTR in the program source and recompile dasdload.

HHCDL117I

HHCDL117I Catalog block at cyl cylinder head head rec record

Explanation
A catalog record has been written to disk at cylinder cylinder, head head and record record.

Message level
4

Action
None.

HHCDL118I

HHCDL118I Catalog block at cyl cylinder head head rec record

Explanation
A catalog index record has been written to disk at cylinder cylinder, head head and record record.

Message level
4

Action
None.

HHCDL119I

HHCDL119I Catalog block at cyl cylinder head head rec record

Explanation
An empty catalog record has been written to disk at cylinder cylinder, head head and record record.

Message level
4

Action
None.
HHCDL120I
HHCDL120I DIP complete at cyl cylinder head head record record

Explanation
The LOGREC dataset has been initialized. The last block written was at cylinder cylinder, head head, record record.

Message level
3

Action
None.

HHCDL121E
HHCDL121E SEQ dsorg must be PS or DA: dsorg=dsorg

Explanation
The dataset organization specified for the input dataset was dsorg. It must be either PS or DA but is not.

Action
Specify a valid dataset organization for sequential file processing or specify the correct processing option for the file being loaded and rerun dasdload.

HHCDL122E
HHCDL122E SEQ recfm must be F or FB: recfm=recfm

Explanation
The record format specified for the input dataset was recfm. It must be either F or FB but is not.

Action
Specify a valid record format for sequential file processing and rerun dasdload.

HHCDL123E
HHCDL123E SEQ invalid lrecl or blksz: lrecl=lrecl blksz=blksz

Explanation
The logical record length specified for the input dataset was lrecl, and the block size was blksz. Either the block size was not a multiple of the logical record length and the record format was specified as FB or the block size was different from the logical record length and the record format was specified as F.

Action
Specify a valid logical record length and block size for sequential file processing and rerun dasdload.
HHCDL124E

HHCDL124E SEQ keyIn must be 0 for blocked files

Explanation
The key length was specified as nonzero and the record format was specified as FB. This combination is invalid.

Action
If a key is required, specify a record format of F. If no key is required, specify a key length of 0. Rerun dasdload.

HHCDL125E

HHCDL125E Cannot open filename: error

Explanation
An error was encountered when attempting to open the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL126E

HHCDL126E Cannot stat filename: error

Explanation
An error was encountered when attempting to obtain the size of the file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL127E

HHCDL127E filename cyl cylinder head head read error

Explanation
An attempt to read the track in the DASD image file named filename at cylinder cylinder, head head, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.
HHCDL128E

HHCDL128E  *filename* read error:  *error*

**Explanation**
An error was encountered reading the input file named *filename*. The error is described by *error*.

**Action**
Correct the error and rerun dasdload.
HHCD001E

HHCD001E Cannot obtain storage for member array: error

Explanation
An attempt to obtain storage for the array of SYS1.SVCLIB members failed. The error is described by error.

Action
Correct the error and rerun dasdisup.

HHCD002I

HHCD002I End of directory: count members selected

Explanation
The end of the SYS1.SVCLIB directory has been reached. count members have been selected for processing.

Action
None.

HHCD003E

HHCD003E Directory block byte count is invalid

Explanation
The length of the directory block read is invalid. The SYS1.SVCLIB directory is probably corrupt.

Action
Rebuild SYS1.SVCLIB and rerun dasdisup.

HHCD004E

HHCD004E Number of members exceeds MAX_MEMBERS

Explanation
SYS1.SVCLIB has too many members to fit in the array used to store their information.

Action
Increase the value of MAX_MEMBERS in dasdisup.c and recompile the program, then run it again.
HHCD005E

HHCD005E Member member TTR count is zero

Explanation
The member named member has no data associated with it. Since aliases have been skipped already, this means that the SYS1.SVCLIB directory is corrupt.

Action
Rebuild SYS1.SVCLIB and run dasdisup again.

HHCD006W

HHCD006W Member member is not single text record

Explanation
The member named member is not contained in a single text record. This is an invalid condition. The member will be skipped later and message HHCD011E will be issued.

Action
If this member must be processed, rebuild SYS1.SVCLIB and rerun dasdisup.

HHCD007W

HHCD007W Member member size size exceeds X'7F8' bytes

Explanation
The member named member is too long. The maximum length of an OS/360 SVC load module is X'7F8' (2040 decimal) bytes. The member will be processed but OS/360 may not process it correctly.

Action
Correct the member in SYS1.SVCLIB and rerun dasdisup.

HHCD008W

HHCD008W Member member size size is not a multiple of 8

Explanation
The member named member is not a multiple of 8 bytes long. Its actual size is size. This is not valid for an OS/360 load module. OS/360 will issue an ABEND when an attempt is made to load the module.

Action
Correct the member in SYS1.SVCLIB and rerun dasdisup.
HHCDS009I

HHCDS009I Alias alias skipped

Explanation
The alias named alias has been skipped, since no processing is necessary for it.

Action
None.

HHCDS010I

HHCDS010I Member member skipped

Explanation
The member named member has been skipped, since it does not have an XCTL table.

Action
If the member should have an XCTL table, rebuild it in SYS1.SVCLIB and rerun dasdisup.

HHCDS011E

HHCDS011E Member member has multiple text records

Explanation
The member named member has multiple text records. This is not a valid condition for an OS/360 SVC module. The member will not be processed. Message HHCDS006W was issued for this member earlier.

Action
If this member must be processed, rebuild it in SYS1.SVCLIB and rerun dasdisup.

HHCDS012E

HHCDS012E Member member has invalid TTR ttr

Explanation
The pointer to the text record for the member named member is invalid. The pointer found is ttr. The member cannot be located to be processed. The SYS1.SVCLIB directory is probably corrupt.

Action
Rebuild SYS1.SVCLIB and rerun dasdisup.
**HHCD013I**

HHCD013I Processing member *member* text record TTR=ttt CCHHR=cchhr

**Explanation**
The member named *member* is being processed. Its relative location is *ttt* and its absolute location is *cchhr*.

**Action**
None.

---

**HHCD014E**

HHCD014E Member *member* error reading TTR *ttt*

**Explanation**
An attempt to read the member named *member*, at the relative location *ttt*, failed. The member cannot be processed.

**Action**
Rebuild SYS1.SVCLIB and rerun dasdisup. If this is unsuccessful, rebuild the entire DASD volume.

---

**HHCD015E**

HHCD015E Member *member* TTR *ttt* text record length *length* is not valid

**Explanation**
The length *length* of the text record at location *ttt* of the member named *member* is less than 8, greater than 1024, or not a multiple of 8. All of these conditions must be met for the length to be valid. The member is probably corrupt.

**Action**
Rebuild the member in SYS1.SVCLIB and rerun dasdisup.

---

**HHCD016E**

HHCD016E Member *member* TTR *ttt* text record length *textlength* does not match length *dirlength* in directory

**Explanation**
The length *textlength* of the text record at location *ttt* is not the same as the length *dirlength* in the directory entry for member *member*. Either the member, or the directory, is probably corrupt.

**Action**
Rebuild the member in SYS1.SVCLIB and rerun dasdisup. If this does not correct the problem, rebuild SYS1.SVCLIB in its entirety.
HHCD$017E
HHCD$017E Member member TTR ttr XCTL table improperly terminated

Explanation
The XCTL table in member member at location ttr runs past the end of the text record. The member is probably corrupt.

Action
Rebuild the member and rerun dasdisup.

HHCD$018I
HHCD$018I member (Alias|Member) skipped

Explanation
The member or alias named member is not an Open, Close, or EOV module, and so does not have an XCTL table that needs to be updated. It has been skipped.

Action
None.

HHCD$019I
HHCD$019I In member member: reference TTRL=ttrl status

Explanation
A reference to the member named reference in the member named member was found, the referenced member is at the location ttrl in the table. status is optional; it may be one of:

** Member reference not found
The referenced member was not found in SYS1.SVCLIB. The reference cannot be updated.

replaced by TTRL=newttrl flag
The reference was updated to point to the referenced member's actual location at newttrl. If flag is ****, the actual length of the referenced member is different from the length of the member in the reference pointer.

Action
None.
16. Messages HHCDTnnns - DASDCAT Utility

HHCDT001E

HHCDT001E failed to open image filename

Explanation
An error was encountered trying to open the DASD image file named filename. A previous message described the error.

Action
Correct the error and rerun dasdcat.

HHCDT002E

HHCDT002E Can't make 80 column card images from block length length

Explanation
A block read from the member specified is not a multiple of 80 characters long, and so cannot be split evenly into 80-character card images. The actual length read is length.

Action
Select a different member, or omit the c flag from the member specification.

HHCDT003E

HHCDT003E Directory block byte count is invalid

Explanation
The length of a PDS directory block in the specified dataset is invalid. The PDS directory is corrupt or the dataset is not a PDS.

Action
Make sure the dataset specified is a PDS (partitioned dataset). If it is, then the dataset is corrupt.

HHCDT004E

HHCDT004E non-PDS-members not yet supported

Explanation
This version of dasdcat does not support reading sequential datasets.

Action
Specify a PDS as input to dasdcat.
HHCDT005E

HHCDT005E unknown dataset name option: 'option'

**Explanation**
An invalid option was specified on the dataset name specification. Only the options 'a' and 'c' are valid.

**Action**
Remove the invalid option from the dataset name specification and rerun dasdcat.
HHCDU001I

HHCDU001I Updating cyl cylinder head head

Explanation
The track at cylinder number cylinder and head number head is being rewritten after being modified. This message is only issued if verbose message reporting has been selected.

Action
None.

HHCDU002E

HHCDU002E filename write track error: stat=status

Explanation
An attempt to rewrite a track from the DASD image named filename failed. The status returned was status.

Action
Correct the error and retry the operation.

HHCDU003I

HHCDU003I Reading cyl cylinder head head

Explanation
The track at cylinder number cylinder and head number head is being read. This message is only issued if verbose message reporting has been selected.

Action
None.

HHCDU004E

HHCDU004E filename read track error: stat=status

Explanation
An attempt to read a track from the DASD image named filename failed. The status returned was status.

Action
Correct the error and retry the operation.
HHCDU005I

HHCDU005I Searching extent 0 begin (begcyl,beghead) end (endcyl,endhead)

Explanation
The first extent of the dataset is being searched for a key. The extent starts at the track at cylinder begcyl, head beghead, and ends at the track at cylinder endcyl, head endhead. This message is only issued if verbose message reporting has been selected.

Action
None.

HHCDU006I

HHCDU006I Searching extent extent begin (begcyl,beghead) end (endcyl,endhead)

Explanation
An extent, extent, of the dataset is being searched for a key. The extent starts at the track at cylinder begcyl, head beghead, and ends at the track at cylinder endcyl, head endhead. This message is only issued if verbose message reporting has been selected.

Action
None.

HHCDU007E

HHCDU007E Track track not found in extent table

Explanation
An attempt was made to convert a track number to an absolute address, but the track specified, track, is beyond the end of the dataset.

Action
Correct the error and retry the operation. The dataset, the VTOC, or the DASD image may be corrupt.

HHCDU008E

HHCDU008E Cannot obtain storage for device descriptor buffer: error

Explanation
An attempt to obtain storage for the buffer used to hold a CKD DASD image description failed. The error is described by error.

Action
Correct the error and retry the operation.
HHCDU009E

HHCDU009E Cannot open filename: error

Explanation
The CKD image file named filename could not be opened. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU010E

HHCDU010E filename read error: error

Explanation
An error was encountered while reading the CKD header record from the file named filename. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU011E

HHCDU011E filename CKD header invalid

Explanation
The file filename is not a valid CKD DASD image file. Either the first record is not the length of a CKD header record or the marker in the header record is not correct.

Action
Supply the name of a valid CKD DASD image file and retry the operation.

HHCDU012E

HHCDU012E DASD table entry not found for devtype type

Explanation
The device type in the CKD header record does not correspond to any known DASD device. The CKD DASD image file may be corrupt or the device is not supported by Hercules.

Action
Supply the name of a supported CKD DASD image file and retry the operation.
**HHCDU013E**

**HHCDU013E CKD initialization failed for filename**

**Explanation**
The device-specific initialization routine for the file named *filename* failed. Another message describes the specific failure.

**Action**
See the specific message for the action needed.

**HHCDU014I**

**HHCDU014I filename heads=heads trklen=trklen**

**Explanation**
The device represented by the CKD DASD image file named *filename* has *heads* heads and tracks of *trklen* bytes length. This message is only issued if verbose message reporting has been selected.

**Action**
None.

**HHCDU015I**

**HHCDU015I Updating cyl cylinder head head**

**Explanation**
During processing of a request to close the CKD image file, the track at cylinder number *cylinder* and head number *head* is being rewritten, since it has been modified. This message is only issued if verbose message reporting has been selected.

**Action**
None.

**HHCDU016E**

**HHCDU016E filename write track error: stat=status**

**Explanation**
During processing of a request to close the CKD image file, an attempt to rewrite a track from the DASD image named *filename* failed. The status returned was *status*.

**Action**
Correct the error and retry the operation.
HHCDU017E

HHCDU017E Cannot obtain storage for device descriptor buffer: error

Explanation
An attempt to obtain storage for the buffer used to hold a FBA DASD image description failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU018E

HHCDU018E DASD table entry not found for devtype type

Explanation
The default FBA device type does not correspond to any known DASD device. This is likely an internal programming error.

Action
Report the bug to the Hercules development team.

HHCDU019E

HHCDU019E FBA initialization failed for filename

Explanation
The device-specific initialization routine for the file named filename failed. Another message describes the specific failure.

Action
See the specific message for the action needed.

HHCDU020I

HHCDU020I filename sectors=sectors size=size

Explanation
The device represented by the FBA DASD image file named filename has sectors sectors of size bytes length. This message is only issued if verbose message reporting has been selected.

Action
None.
HHCDU021E

HHCDU021E VOL1 record not found

Explanation
The volume being processed does not have a volume label. It is probably blank and unformatted.

Action
Format the volume or specify a formatted volume and retry the operation.

HHCDU022I

HHCDU022I VOLSER=serial VTOC=cchhr

Explanation
The volume being processed has the volume serial serial and its VTOC format 4 DSCB is at absolute location cchhr. This message is only issued if verbose message reporting has been selected.

Action
None.

HHCDU023I

HHCDU023I VTOC start begcchh end endcchh

Explanation
The VTOC of the volume being processed begins at cylinder and head begcchh and ends at cylinder and head endcchh. This message is only issued if verbose message reporting has been selected.

Action
None.

HHCDU024E

HHCDU024E Dataset dsn not found in VTOC

Explanation
The requested dataset dsn was not found in the VTOC and does not exist on this volume.

Action
Specify the correct dataset name or select the volume on which it appears.

HHCDU025I

HHCDU025I DSNAME=dsn F1DSCB CCHHR=cchhr

Explanation
The format 1 DSCB for the requested dataset dsn is at absolute location cchhr. This message is only issued if verbose message reporting has been selected.
HHCDU026E

HHCDU026E F1DSCB record not found

Explanation
The requested dataset is listed in the VTOC but its format 1 DSCB record was not found when an attempt was made to read it. The VTOC may be corrupt.

Action
Recreate the dataset and retry the operation.

HHCDU027E

HHCDU027E F3DSCB record not found

Explanation
The requested dataset is reported to contain more than three extents in the format 1 DSCB but its format 3 DSCB record was not found when an attempt was made to read it. The VTOC may be corrupt.

Action
Recreate the dataset and retry the operation.

HHCDU028E

HHCDU028E filename open error: error

Explanation
An attempt to create the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU029E

HHCDU029E filename device header write error: error

Explanation
An attempt to write the device header to the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.
HHCDU030E

HHCDU030E *filename* compressed device header write error: *error*

**Explanation**
An attempt to write the compressed device header to the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU031E

HHCDU031E Cannot obtain l1tab buffer: *error*

**Explanation**
An attempt to obtain storage for the primary lookup table buffer failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU032E

HHCDU032E *filename* primary lookup table write error: *error*

**Explanation**
An attempt to write the primary lookup table to the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU033E

HHCDU033E *filename* secondary lookup table write error: *error*

**Explanation**
An attempt to write the secondary lookup table to the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU034E

HHCDU034E *filename* dasdcopy ftruncate error: *error*

**Explanation**
An attempt to truncate the CKD DASD image file named *filename* failed. The error is described by *error*.
Action
Correct the error and retry the operation.

**HHCDU035E**

**HHCDU035E** *filename* cylinder *cyl* head *head* write error: *error*

**Explanation**
An attempt to write the track at cylinder *cyl*, head *head* to the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCDU036E**

**HHCDU036E** *filename* compressed device header lseek error: *error*

**Explanation**
An attempt to reposition to the beginning of the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCDU037E**

**HHCDU037E** *filename* compressed device header write error: *error*

**Explanation**
An attempt to rewrite the compressed device header record of the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCDU038E**

**HHCDU038E** *filename* secondary lookup table lseek error: *error*

**Explanation**
An attempt to reposition to the secondary lookup table of the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.
HHCDU039E

HHCDU039E *filename* secondary lookup table write error: *error*

**Explanation**
An attempt to rewrite the secondary lookup table of the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU040E

HHCDU040E *filename* close error: *error*

**Explanation**
An attempt to close the CKD DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU041I

HHCDU041I *count* cylinders successfully written to file *filename*

**Explanation**
The CKD DASD image file named *filename* has been successfully created. It contains *count* cylinders.

**Action**
None.

HHCDU042E

HHCDU042E Cylinder count *count* is outside range *min-max*

**Explanation**
The requested number of cylinders *count* is outside the valid range from *min* to *max*.

**Action**
Specify a valid number of cylinders and retry the operation.

HHCDU043E

HHCDU043E Cannot obtain track buffer: *error*

**Explanation**
An attempt to obtain storage for the track buffer failed. The error is described by *error*. 
Action
Correct the error and retry the operation.

HHCDU044I

HHCDU044I Creating type volume serial: cylinders cyls, tracks trks/cyl, length bytes/track

Explanation
A new volume is being created of device type type and volume serial number serial. It has cylinders cylinders, tracks tracks per cylinder and length bytes per track.

Action
None.

HHCDU045E

HHCDU045E Sector count count is outside range min-max

Explanation
The requested number of sectors count is outside the valid range from min to max.

Action
Specify a valid number of cylinders and retry the operation.

HHCDU046E

HHCDU046E Cannot obtain sector buffer: error

Explanation
An attempt to obtain storage for the sector buffer failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU047I

HHCDU047I Creating type volume serial: sectors sectors, length bytes/sector

Explanation
A new volume is being created of device type type and volume serial number serial. It has sectors sectors and length bytes per sector.

Action
None.
HHCDU048E

HHCDU048E $filename$ open error: error

Explanation
An attempt to create the FBA DASD image file named $filename$ failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU049E

HHCDU049E $filename$ dasdcopy ftruncate error: error

Explanation
An attempt to truncate the FBA DASD image file named $filename$ failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU050E

HHCDU050E $filename$ sector sector write error: error

Explanation
An attempt to write sector number sector to the FBA DASD image file named $filename$ failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU051E

HHCDU051E $filename$ close error: error

Explanation
An attempt to close the FBA DASD image file named $filename$ failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU052I

HHCDU052I count sectors successfully written to file $filename$

Explanation
The FBA DASD image file named $filename$ has been successfully created. It contains count sectors.
**HHCDU053E**

**HHCDU053E File size too large: size [/1tab]**

**Explanation**
The requested file size size would result in a primary lookup table that is too large. The DASD image cannot be created as a compressed image.

**Action**
Either specify fewer sectors or create the DASD image uncompressed.

---

**HHCDU054E**

**HHCDU054E filename open error: error**

**Explanation**
An attempt to create the compressed FBA DASD image file named filename failed. The error is described by error.

**Action**
Correct the error and retry the operation.

---

**HHCDU055I**

**HHCDU055I Creating type compressed volume serial: sectors sectors, length bytes/sector**

**Explanation**
A new compressed FBA volume is being created of device type type and volume serial number serial. It has sectors sectors and length bytes per sector.

**Action**
None.

---

**HHCDU056E**

**HHCDU056E filename devhdr write error: error**

**Explanation**
An attempt to write the device header to the compressed FBA DASD image file named filename failed. The error is described by error.

**Action**
Correct the error and retry the operation.
HHCDU057E

HHCDU057E filename cdevhdr write error: error

Explanation
An attempt to write the compressed device header to the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU058E

HHCDU058E filename l1tab write error: error

Explanation
An attempt to write the primary lookup table to the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU059E

HHCDU059E filename l2tab write error: error

Explanation
An attempt to write the secondary lookup table to the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU060E

HHCDU060E filename block header write error: error

Explanation
An attempt to write a compressed block header to the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.
HHCDU061E

HHCDU061E *filename* block write error: *error*

**Explanation**
An attempt to write a compressed block to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU062E

HHCDU062E *filename* block write error: *error*

**Explanation**
An attempt to write an uncompressed block to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU063E

HHCDU063E *filename* cdevhdr lseek error: *error*

**Explanation**
An attempt to reposition to the beginning of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU064E

HHCDU064E *filename* cdevhdr rewrite error: *error*

**Explanation**
An attempt to rewrite the compressed device header record of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.
HHCDU065E

HHCDU065E *filename l2tab lseek error: error*

**Explanation**
An attempt to reposition to the secondary lookup table of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU066E

HHCDU066E *filename l2tab rewrite error: error*

**Explanation**
An attempt to rewrite the secondary lookup table of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU067E

HHCDU067E *filename close error: error*

**Explanation**
An attempt to close the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU068I

HHCDU068I *count sectors successfully written to file filename*

**Explanation**
The compressed FBA DASD image file named *filename* has been successfully created. It contains *count* sectors.

**Action**
None.
18. Messages HHCHDnnns - Hercules Dynamic Loader

HHCHD001E
HHCHD001E registration alloc failed for entry

Explanation
Storage could not be obtained to register entrypoint entry

Action
Correct the error and restart Hercules.

HHCHD002E
HHCHD002E cannot allocate memory for DLL descriptor: error

Explanation
Initialisation of the dynamic loader environment failed due to the error described by error.

Action
Correct the error and restart Hercules.

HHCHD003E
HHCHD003E unable to open Hercules as DLL: error

Explanation
The main Hercules load module could not be opened by the dynamic loader. The dynamic loader error is described by error.

Action
Correct the error and restart Hercules.

HHCHD004I
HHCHD004I No initializer in module: error

Explanation
The initializer in DLL named module could not be found. The error is described by error.

Action
Correct the error and restart Hercules.
HHCHD005E

HHCHD005E *module* already loaded.

**Explanation**
An attempt was made to load an already loaded module.

**Action**
Unload to module first.

HHCHD006S

HHCHD006S cannot allocate memory for DLL descriptor: *error*

**Explanation**
Initialisation of the dynamic loader environment failed due to the error described by *error*.

**Action**
Correct the error and restart Hercules.

HHCHD007E

HHCHD007E unable to open DLL *module*: *error*

**Explanation**
The DLL named *module* could not be opened. The error is described by *error*.

**Action**
Ensure that the correct module is specified and is accessible.

HHCHD008I

HHCHD008I No initializer in *module*: *error*

**Explanation**
The initializer in DLL named *module* could not be found. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

HHCHD009E

HHCHD009E *module* not found

**Explanation**
An attempt was made to unload a module that was not loaded.

**Action**
No action required.
HHCHD010I

HHCHD010I Dependency check failed for module, version(vers_actual) expected(vers_exp)

Explanation
The version of the module's required dependency does not match the version of the dependency in the module that contains the dependency.

Action
No action required.

HHCHD011I

HHCHD011I Dependency check failed for module, size(size_actual) expected(size_exp)

Explanation
The size of the module's required dependency does not match the size of the dependency in the module that contains the dependency.

Action
No action required.

HHCHD012E

HHCHD012E No depency section in module: error

Explanation
The module being loaded does not contain the required dependency section. The error is described by error.

Action
Rebuild the module with the required HDL_DEPENDENCY_SECTION defined.

HHCHD013E

HHCHD013E No depency section in module: error

Explanation
The module being loaded does not contain the required dependency section. The error is described by error.

Action
Rebuild the module with the required HDL_DEPENDENCY_SECTION defined.
HHCHD014E

HHCHD014E Dependency check failed for module module

Explanation
One or more required dependencies were not satisfied. The preceding HHCHD010I and/or HHCHD011I message(s) identifies which of the dependencies failed and the reason why.

Action
If the module was not loaded, rebuild the module using the same version of the required dependency as the module that contains the dependency and try again.

HHCHD015E

HHCHD015E Unloading of module not allowed

Explanation
An attempt was made to unload a module that was not allowed to be unloaded.

Action
No action required.

HHCHD018I

HHCHD018I Loadable module directory is dir

Explanation
The default loadable module directory was manually changed to dir via either a supplied MODPATH configuration file statement or via the -d command line option.

Action
No action required.

HHCHD100I

HHCHD100I Loading module ...

Explanation
Module module is being loaded.

Action
No action required.

HHCHD101I

HHCHD101I Module module loaded

Explanation
Module module has been loaded.
**HHCHD102I**

HHCHD102I Unloading *module* ...

**Explanation**
Module *module* is being unloaded.

**Action**
No action required

---

**HHCHD103I**

HHCHD103I Module *module* unloaded

**Explanation**
Module *module* has been unloaded.

**Action**
No action required
HHCHEnnns

Messages HHCHEnnns are not yet documented.
20. Messages HHCHGnnns - HETGET Utility

HHCHGnnns
Messages HHCHGnnns are not yet documented.
21. Messages HHCHMnnns - HETMAP Utility

HHCHMnnns

Messages HHCHMnnns are not yet documented.
22. Messages HHCHTnnns - HTTP Server

**HHCHT001I**

HHCHT001I HTTP listener thread started: tid=*threadid*, pid=*processid*

**Explanation**
The HTTP server thread to accept and process incoming requests has been started. The thread id is *threadid* and the process id is *processid*.

**Action**
No action required.

**HHCHT002E**

HHCHT002E socket: *error*

**Explanation**
An attempt to obtain a TCP socket to receive HTTP requests failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

**HHCHT003W**

HHCHT003W Waiting for port *port* to become free

**Explanation**
The thread that handles HTTP connection requests is waiting for the TCP port denoted by *port* to become available for use.

**Action**
If this message persists, some other program has control of the TCP port listed. Find out which one it is and terminate it.

**HHCHT004E**

HHCHT004E bind: *error*

**Explanation**
An attempt to bind the socket to the TCP port to receive HTTP requests failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.
HHCHT005E

HHCHT005E listen: error

Explanation
An attempt to put the socket into listening state for HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHT006I

HHCHT006I Waiting for HTTP requests on port port pid=num

Explanation
Hercules is ready to accept HTTP requests on port port.

Action
No action required.

HHCHT007E

HHCHT007E select: error

Explanation
An attempt to wait for data from HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHT008E

HHCHT008E accept: error

Explanation
An attempt to accept a TCP connection for HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHT009E

HHCHT009E fdopen: error

Explanation
An attempt to open the socket for reading HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.
HHCHT010E

HHCHT010E http_request create_thread: error

Explanation
An attempt to create a thread for processing HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHT011E

HHCHT011E html_include: Cannot open filename: error

Explanation
The file named filename, which was included from another file, could not be opened. The error is described by error.

Action
Correct the error and retry the operation.

HHCHT014I

HHCHT014I HTTPROOT = pathname

Explanation
The root directory path for the HTTP server is pathname.

Action
No action required.
23. Messages HHCHUlnns - HETUPD Utility

HHCHUlnns
Messages HHCHUlnns are not yet documented.
24. Messages HHClFnnns - Network Interface Configuration Handler (hercifc)

HHClF001E

HHClF001E *programname*: Must be called from within Hercules.

Explanation
This program can only be called from Hercules itself and may not be executed from the command line. The program was executed using the name *programname*.

Action
Don't do that.

HHClF002E

HHClF002E *programname*: Cannot obtain socket: *error*

Explanation
An attempt to obtain a socket for controlling the destination interface failed. The error is described by *error*. The program was executed using the name *programname*.

Action
Correct the error and retry the operation.

HHClF003E

HHClF003E *programname*: I/O error on read: *error*

Explanation
An attempt to read a request from Hercules failed. The error is described by *error*. The program was executed using the name *programname*.

Action
Correct the error and retry the operation.

HHClF004W

HHClF004W *programname*: Unknown request: *request*.

Explanation
The request from Hercules was invalid. The request code was *request*. The request has been ignored. The program was executed using the name *programname*.

Action
Make sure that the hercifc program is the same version as the running copy of Hercules. If so, this is an internal error. Report it.
HHCI005E

HHCI005E programname: ioctl error doing operation on interface: error

Explanation
An attempt to perform an ioctl operation operation on interface interface failed. The error is described by error. The program was executed using the name programname.

Action
Correct the error and retry the operation.
25. Messages HHCINnnns - Hercules Initialization

**HHCIN001S**

**HHCIN001S Cannot register SIGINT handler: error**

**Explanation**
An attempt to register a handler for the SIGINT signal failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

**HHCIN002E**

**HHCIN002E Cannot suppress SIGPIPE signal: error**

**Explanation**
An attempt to ignore the SIGPIPE signal failed. The error is described by *error*. This will cause Hercules to terminate abnormally if a printer device is defined to a pipe and that pipe is closed while data is being written to it.

**Action**
Correct the error and restart Hercules. Do not print to a pipe until you have corrected the error.

**HHCIN003S**

**HHCIN003S Cannot register SIGILL/FPE/SEGV/BUS/USR handler: error**

**Explanation**
An attempt to register a handler for one of the listed signals failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

**HHCIN004S**

**HHCIN004S Cannot create watchdog thread: error**

**Explanation**
An attempt to create the watchdog thread to monitor Hercules execution failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.
**HHCIN005S**

HHCIN005S Cannot create http_server thread: *error*

**Explanation**
An attempt to create the HTTP server thread failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

**HHCIN006S**

HHCIN006S Cannot create panel thread: *error*

**Explanation**
An attempt to create the operator control panel thread failed. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

**HHCIN007S**

HHCIN007S Cannot create devnum connection thread: *error*

**Explanation**
The shared device server was unable to create the thread meant to manage remote device *devnum*. The error is described by *error*.

**Action**
Correct the error and restart Hercules.

**HHCIN008S**

HHCIN008S DYNGUI.DLL load failed; Hercules terminated.

**Explanation**
The external GUI interface module 'dyngui.dll' could not loaded. The preceding HHCHD007E message should provide the reason for the failure.

**Action**
Correct the error and restart Hercules. If the error is Win32 error 126 ("The specified module could not be found"), check your Windows PATH setting and/or your MODPATH control statement to ensure one or both of them includes the directory where Hercules is executing from.
HHCIN099I

HHCIN099I Hercules terminated

Explanation
Hercules has ended.

Action
No action required.
26. Messages HHCLCnnns - LCS Emulation

HHCLC001E
HHCLC001E $n$nnn unable to allocate LCSBLK

Explanation
There is insufficient storage to allocate the control block for LCS device number $n$nnn.

Action
Correct the error and restart Hercules.

HHCLC017E
HHCLC017E $n$nnn invalid device name devname

Explanation
The value of the -n or -dev parameter in the configuration statement for LCS device number $n$nnn is missing or too long.

Action
Correct the parameter and reinitialize the device.

HHCLC018E
HHCLC018E $n$nnn invalid MAC address macaddr

Explanation
The value of the -m or -mac parameter in the configuration statement for LCS device number $n$nnn is not a valid MAC address.

Action
Correct the parameter and reinitialize the device.

HHCLC019E
HHCLC019E $n$nnn too many arguments in statement

Explanation
The configuration statement for LCS device number $n$nnn contains too many positional parameters.

Action
Correct the statement and restart Hercules.
HHCLC020E
HHCLC020E nnnn invalid IP address ipaddr

Explanation
The first positional parameter in the configuration statement for LCS device number nnnn is not a valid IP address.

Action
Correct the statement and reinitialize the device.

HHCLC021E
HHCLC021E Invalid HWADD statement in filename: stmt

Explanation
The port number parameter of the HWADD statement stmt in OAT file filename is not numeric.

Action
Correct the statement and reinitialize the device.

HHCLC022E
HHCLC022E Invalid MAC in HWADD statement in filename: stmt (macaddr)

Explanation
The second positional parameter of the HWADD statement stmt in OAT file filename is not a valid MAC address.

Action
Correct the parameter and reinitialize the device.

HHCLC023E
HHCLC023E Invalid ROUTE statement in filename: stmt

Explanation
The port number parameter of the ROUTE statement stmt in OAT file filename is not numeric.

Action
Correct the statement and reinitialize the device.

HHCLC024E
HHCLC024E Invalid net address in ROUTE filename: stmt (netaddr)

Explanation
The second positional parameter of the ROUTE statement stmt in OAT file filename is not a valid IP network address.

Action
Correct the parameter and reinitialize the device.
HHCLC025E
HHCLC025E Invalid net mask in ROUTE filename: stmt (netaddr)

Explanation
The third positional parameter of the ROUTE statement stmt in OAT file filename is not a valid IP network mask.

Action
Correct the parameter and reinitialize the device.

HHCLC026E
HHCLC026E Error in filename: Missing device number or mode

Explanation
The OAT file filename contains a statement which cannot be identified.

Action
Correct the statement and reinitialize the device.

HHCLC027E
HHCLC027E Error in filename: devnum: Invalid device number

Explanation
The device number devnum specified in the OAT file filename is not a valid hexadecimal number.

Action
Correct the statement and reinitialize the device.

HHCLC028E
HHCLC028E Error in filename: stmt: Missing PORT number

Explanation
Statement stmt in OAT file filename for the IP port of an LCS device does not contain a port number.

Action
Correct the statement and reinitialize the device.

HHCLC029E
HHCLC029E Error in filename: port: Invalid PORT number

Explanation
The port number port specified in the OAT file filename for the IP port of an LCS device is not a valid decimal number.

Action
Correct the statement and reinitialize the device.
HHCLC031E
HHCLC031E Error in filename: stmt: Invalid entry starting at text

Explanation
The parameter text specified in statement stmt in the OAT file filename should be PRI, SEC, or NO.

Action
Correct the statement and reinitialize the device.

HHCLC032E
HHCLC032E Error in filename: stmt: Invalid IP address (ipaddr)

Explanation
The parameter ipaddr specified in statement stmt in the OAT file filename is not a valid IP address.

Action
Correct the statement and reinitialize the device.

HHCLC033E
HHCLC033E Error in filename: stmt: Missing PORT number

Explanation
Statement stmt in OAT file filename for the SNA port of an LCS device does not contain a port number.

Action
Correct the statement and reinitialize the device.

HHCLC034E
HHCLC034E Error in filename: port: Invalid PORT number

Explanation
The port number port specified in the OAT file filename for the SNA port of an LCS device is not a valid decimal number.

Action
Correct the statement and reinitialize the device.

HHCLC035E
HHCLC035E Error in filename: stmt: SNA does not accept any arguments

Explanation
Statement stmt in OAT file filename for the SNA port of an LCS device contains positional parameters which are not used for SNA ports.

Action
Correct the statement and reinitialize the device.
HHCLC036E
HHCLC036E Error in *filename: mode* Invalid MODE

**Explanation**
Mode *mode* specified in a device statement in the OAT file *filename* should be IP or SNA.

**Action**
Correct the statement and reinitialize the device.

HHCLC037E
HHCLC037E Error reading file *filename* line *nnnn: description*

**Explanation**
An error occurred reading the OAT file for an LCS device. *description* is the operating system’s description of the error. The error occurred at line *nnnn* of file *filename*.

**Action**
Check that the correct OAT file name is specified in the configuration file.

HHCLC038E
HHCLC038E File *filename* line *nnnn* is too long

**Explanation**
An error occurred reading the OAT file for an LCS device. The error occurred at line *nnnn* of file *filename*. Either the line exceeds 255 characters, or there is no linefeed at the end of the file.

**Action**
Correct the OAT file.

HHCLC039E
HHCLC039E Cannot open file *filename: description*

**Explanation**
An error occurred opening the OAT file *filename* for an LCS device. *description* is the operating system’s description of the error.

**Action**
Check that the correct OAT file name is specified in the configuration file.

HHCLC040E
HHCLC040E *nnnn* LCSDEV *mmmm* not in configuration

**Explanation**
The device number *mmmm* specified in the OAT file does not match the LCS device number *nnnn* in the configuration file.
HHCLC055I
HHCLC055I tapn using MAC hh:hh:hh:hh:hh:hh

Explanation
The MAC address assigned the TUN/TAP device tapn is hh:hh:hh:hh:hh:hh.

Action
Correct the OAT file and reinitialize the device.

HHCLC056W
HHCLC056W tapn NOT using MAC hh:hh:hh:hh:hh:hh

Explanation
MAC address hh:hh:hh:hh:hh:hh was requested in the configuration statement or in the OAT file for an LCS device but the operating system did not accept the request to change the MAC address for TUN/TAP device tapn.

Action
The device will use the MAC address shown in the preceding HHCLC055I message.

HHCLC073I
HHCLC073I nnnn: TAP device tapn opened

Explanation
LCS device number nnnn is now associated with the kernel TUN/TAP device named tapn.

Action
None.
27. Messages HHCLGnnns - System Log Functions

HHCLG001E

HHCLG001E Error redirecting stdout: error

Explanation
The stdout stream could not be redirected to the system logger. The error is described by error.

HHCLG002E

HHCLG002E Error reading syslog pipe: error

Explanation
An error occurred while reading the syslog pipe. The error is described by error.

HHCLG003E

HHCLG003E Error writing hardcopy log: error

Explanation
The error as indicated by error occurred while writing the hardcopy log.

HHCLG004E

HHCLG004E Error duplicating stderr: error

Explanation
Stderr could not be redirected to stdout. The error is described by error.

HHCLG005E

HHCLG005E Error duplicating stdout: error

Explanation
Stderr could not be redirected to stdout. The error is described by error.

HHCLG006E

HHCLG006E Duplicate error redirecting hardcopy log: error

Explanation
The error described by error occurred whilst redirecting the hardcopy log.
HHCLG007S
HHCLG007S Hardcopy log fdopen failed: error
Explanation
An attempt to open a stream for the hardcopy log failed. The error is described by error.

HHCLG008S
HHCLG008S logbuffer malloc failed: error
Explanation
An instorage buffer for the system log could not be obtained. The error is described by error.

HHCLG009S
HHCLG009S Syslog message pipe creation failed: error
Explanation
An attempt to create the pipe for the system logger failed. The error is described by error.
Action
Check that your firewall is not preventing Hercules from opening a listening pipe.

HHCLG012E
HHCLG012E Cannot create logger thread: error
Explanation
An attempt to create the logger thread failed. Error is the description of the error code returned by the pthread_create call.
Action
If the error is "No error" ensure that Hercules has been correctly linked with the pthread library.

HHCLG014E
HHCLG014E Log not active
Explanation
A log off command was issued but there was no active log file.
Action
None.
HHCLG015I

HHCLG015I Log closed

Explanation
The active log file has been closed as a result of a log off command.

Action
None.

HHCLG016E

HHCLG016E Error opening log file *filename: error*

Explanation
The new log file requested by a log command could not be opened. *error* is the description of the error code returned by the open call.

Action
Reissue the log command with the correct filename.

HHCLG017S

HHCLG017S Log file fdopen failed for *filename: error*

Explanation
The logger was unable to obtain the file descriptor for the new log file requested by a log command. *error* is the description of the error code returned by the fdopen call.

Action
Reissue the log command with the correct filename.

HHCLG018I

HHCLG018I Log switched to *filename*

Explanation
As a result of a log command the logger is now writing to the requested log file.

Action
None.
HHCPNnnns - Control Panel Command Messages

**HHCPN001I**

Control panel thread started: tid=threadid, pid=processid

**Explanation**
The control panel thread has been started. Its thread id is threadid and its process id is processid.

**Action**
No action required.

**HHCPN002S**

Cannot obtain keyboard buffer: error

**Explanation**
An attempt to obtain memory for the keyboard buffer, used to hold operator input, failed. The error is described by error.

**Action**
Correct the error and restart Hercules.

**HHCPN003S**

Cannot obtain message buffer: error

**Explanation**
An attempt to obtain memory for the message buffer, used to hold operator output, failed. The error is described by error.

**Action**
Correct the error and restart Hercules.

**HHCPN004E**

select: error

**Explanation**
An error was encountered while waiting for input from the console. The error is described by error.

**Action**
Correct the error and retry the operation.
HHCPN005E

HHCPN005E keyboard read: error

Explanation
An error was encountered while attempting to read keyboard input. The error is described by error.

Action
Correct the error and retry the operation.

HHCPN006E

HHCPN006E message pipe read: error

Explanation
An error was encountered while attempting to read from the pipe used to communicate to the control panel thread from the rest of Hercules. The error is described by error.

Action
Correct the error and retry the operation.

HHCPN007E

HHCPN007E RC file filename open failed: error

Explanation
The RC file containing commands to be executed at Hercules startup, named filename, could not be opened. The error is described by error.

Action
Correct the error and restart Hercules if necessary. The commands contained in the file may be issued manually.

HHCPN008I

HHCPN008I RC file processing thread started using file filename

Explanation
Processing of the commands contained in the file named filename has begun.

Action
No action required.
HHCPN009E

HHCPN009E RC file buffer malloc failed: error

Explanation
An attempt to obtain storage for the buffer for commands being read from the startup command file failed. The error is described by error.

Action
Correct the error and restart Hercules, if needed. The commands contained in the file may be issued manually.

HHCPN010W

HHCPN010W Ignoring invalid RC file pause statement: argument

Explanation
The argument argument on the pause statement in the startup command file is invalid. It must be a decimal number between 0 and 999. Processing will continue without any pause.

Action
Correct the invalid argument and restart Hercules, if desired.

HHCPN011I

HHCPN011I Pausing RC file processing for delay seconds...

Explanation
Processing of the startup command file is being delayed for delay seconds because of a pause statement in the file.

Action
No action required.

HHCPN012I

HHCPN012I Resuming RC file processing...

Explanation
Processing of the startup command file has resumed at the expiration of the delay interval.

Action
No action required.
HHCPN013I

HHCPN013I EOF reached on RC file. Processing complete.

Explanation
The end of the startup command file has been reached and processing of the file is complete.

Action
No action required.

HHCPN014E

HHCPN014E I/O error reading RC file: error

Explanation
An error was encountered while reading a command from the startup command file. The error is described by error. Any remaining commands in the file will not be processed.

Action
Correct the error and restart Hercules if desired. Any unprocessed commands may be issued manually.

HHCPN052E

HHCPN052E Target CPU nnnn type cputype does not allow ipl

Explanation
An IPL command was issued but the target CPU nnnn is a processor engine of type cputype which does not support the initial program load procedure.

Action
Use the CPU command to set the target CPU to a processor of type CP, IFL, or ICF, then re-issue the IPL command.

HHCPN162I

HHCPN162I Hercules instruction trace displayed in \{ regsfirst | noregs | traditional \} mode

Explanation
This message shows the current setting of the traceopt mode.

Action
None.
HHCPN180E

HHCPN180E 'sh' commands are disabled

Explanation
The 'sh' (shell) command has been purposely disabled via a SHCMDOPT configuration file statement. Shell commands entered via the Hercules hardware console will not be processed.

Action
Remove or modify the SHCMDOPT configuration file statement and restart Hercules.

HHCPN181E

HHCPN181E Device number s:CCUU not found

Explanation
The device number "CCUU" on Logical Channel Subsystem "s" was not found in the configuration.

Action
Reissue the command with an existing device number.

HHCPN195I

HHCPN195I Log options: val

Explanation
This message displays the current logging options. It is issued when the LOGOPT command is entered without operands. val is TIMESTAMP or NOTIMESTAMP.

Action
None.

HHCPN196E

HHCPN196E Invalid logopt value val

Explanation
This message is issued when the operand of a LOGOPT command is an invalid value. Valid values for val are TIMESTAMP or NOTIMESTAMP.

Action
Reenter the LOGOPT command with a valid operand.
HHCPN197I

HHCPN197I Log option set: val

Explanation
As the result of the LOGOPT command, the Hercules logging option val has been set. val is TIMESTAMP or NOTIMESTAMP.

Action
None.
29. Messages HHCPRnnns - Printer Emulation

**HHCPRO01E**

**HHCPRO01E File name missing or invalid for printer address**

**Explanation**
The there was no file name specified for the printer at address address, or else there was one specified but it was too long.

**Action**
Correct the error in the Hercules configuration file. The device may be made available by specifying a filename with the devinit command.

**HHCPRO02E**

**HHCPRO02E Invalid argument for printer address: argument**

**Explanation**
An invalid argument was specified on the definition of the printer at address address.

**Action**
Correct or remove the invalid argument.

**HHCPRO03E**

**HHCPRO03E address Error writing to filename: error**

**Explanation**
An error was encountered when writing output for the printer at address address to the file named filename. The error is described by error.

**Action**
Correct the error and retry the operation.

**HHCPRO04E**

**HHCPRO04E Error opening file filename: error**

**Explanation**
An error was encountered when opening the file named filename. The error is described by error.

**Action**
Correct the error and retry the operation.
**HHCP005E**

**HHCP005E** *address* device initialization error: pipe: *error*

**Explanation**
An error was encountered when opening a pipe for the printer at address *address*. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCP006E**

**HHCP006E** *address* device initialization error: fork: *error*

**Explanation**
An error was encountered when starting the program to process the output from the printer at address *address*. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCP007I**

**HHCP007I** pipe receiver (pid=*processid*) starting for *address*

**Explanation**
The program to process the output from the printer at address *address* is starting. Its process id is *processid*.

**Action**
No action required.

**HHCP008E**

**HHCP008E** *address* dup2 error: *error*

**Explanation**
The file descriptor for stdin could not be duplicated for the program to process the output from the printer at address *address*. The error is described by *error*.

**Action**
Correct the error and retry the operation.
HHCP009E

HHCP009E address dup2 error: error

Explanation
The file descriptor for stdout could not be duplicated for the program to process the output from the printer at address address. The error is described by error.

Action
Correct the error and retry the operation.

HHCP010E

HHCP010E address dup2 error: error

Explanation
The file descriptor for stderr could not be duplicated for the program to process the output from the printer at address address. The error is described by error.

Action
Correct the error and retry the operation.

HHCP011I

HHCP011I pipe receiver (pid=processid) terminating for address

Explanation
The program to process the output from the printer at address address has ended successfully. Its process id was processid.

Action
No action required.

HHCP012E

HHCP012E address Unable to execute program: error

Explanation
The program named program to process the output from the printer at address address could not be started. The error is described by error.

Action
Correct the error and retry the operation.
30. Messages HHCPUnnns - Card Punch Emulation

**HHCPU001E**

**HHCPU001E File name missing or invalid**

**Explanation**
The file name specified for punched output is invalid or no file name is given.

**Action**
Correct the error and retry the operation.

**HHCPU002E**

**HHCPU002E Invalid argument: argument**

**Explanation**
An invalid argument *argument* was specified for the card punch. Valid arguments are ascii, ebcdic, and crif.

**Action**
Correct the invalid argument and retry the operation.

**HHCPU003E**

**HHCPU003E Error opening file filename: error**

**Explanation**
The file named *filename* could not be opened for output of card punch data. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCPU004E**

**HHCPU004E Error writing to filename: error**

**Explanation**
The file named *filename* encountered an error while writing card punch data. The error is described by *error*.

**Action**
Correct the error and retry the operation.
31. Messages HHCRDnnns - Card Reader Emulation

**HHCRD001E**

Out of memory

**Explanation**
A request to allocate memory for the list of files to be read failed.

**Action**
Correct the error and retry the operation.

**HHCRD002E**

File name too long (max=\textit{max}): "\textit{filename}"

**Explanation**
The file name specified by \textit{filename} is too long. The maximum length is \textit{max}.

**Action**
Specify a shorter name.

**HHCRD003E**

Unable to access file "\textit{filename}": \textit{error}

**Explanation**
The file specified by \textit{filename} could not be accessed. The error is described by \textit{error}.

**Action**
Correct the error and retry the operation.

**HHCRD004E**

Out of memory

**Explanation**
A request to allocate memory for the list of files to be read failed.

**Action**
Correct the error and retry the operation.
HHCRD005E

HHCRD005E Specify 'ascii' or 'ebcdic' (or neither) but not both

Explanation
Both of the character set translation options ascii and ebcdic were specified. At most one is allowed.

Action
Select only one character set translation option.

HHCRD006E

HHCRD006E Only one filename (sock_spec) allowed for socket devices

Explanation
More than one filename argument was given for a socket card reader device. Only one is allowed. This error can also result if an option name is misspelled.

Action
Remove the extraneous filenames or correct the misspelled options.

HHCRD007I

HHCRD007I Defaulting to 'ascii' for socket device address

Explanation
The socket card reader device at address address has been set to ASCII mode since neither translation option was specified. The socket card reader device cannot automatically select the translation option.

Action
If you wish to read cards without translation from ASCII to EBCDIC, you must specify the ebcdic option on the reader definition.

HHCRD008W

HHCRD008W 'multifile' option ignored: only one file specified

Explanation
Only one file was specified for input to the card reader and the multifile option was specified. This option is Explanationless with only one input file. The option has been ignored.

Action
If you wish to read more than one input file without signalling end-of-file or intervention required between them, then all files must all be specified on the same reader definition. If you only wish to process one file, omit the multifile option.
HHCRD009E

HHCRD009E File name too long (max=\textit{max}): "\textit{filename}"

Explanation
The file name specified by \textit{filename} is too long. The maximum length is \textit{max}.

Action
Specify a shorter name.

HHCRD010E

HHCRD010E Unable to access file "\textit{filename}": \textit{error}

Explanation
The file specified by \textit{filename} could not be accessed. The error is described by \textit{error}.

Action
Correct the error and retry the operation.

HHCRD011E

HHCRD011E Close error on file "\textit{filename}": \textit{error}

Explanation
An attempt to close the file specified by \textit{filename} failed. The error is described by \textit{error}.

Action
Correct the error and retry the operation.

HHCRD012I

HHCRD012I \textit{ipaddr} (\textit{hostname}) disconnected from device \textit{address} (\textit{socketspec})

Explanation
The client on the host named \textit{hostname}, with the IP address \textit{ipaddr}, has disconnected from the socket card reader device at address \textit{address}, specified by \textit{socketspec}.

Action
No action required.

HHCRD013E

HHCRD013E Error opening file \textit{filename}: \textit{error}

Explanation
The file named \textit{filename} could not be opened for reading. The error is described by \textit{error}. 
Action
Correct the error and retry the operation.

HHCRD014E

HHCRD014E Error reading file filename: error

Explanation
An error was encountered while attempting to read the first 160 bytes of the file named filename in order to determine its character set. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD015E

HHCRD015E Seek error in file filename: error

Explanation
An error was encountered while attempting to return to the beginning of file named filename after determining its character set. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD016E

HHCRD016E Error reading file filename: error

Explanation
An error was encountered while attempting to read an EBCDIC card image from the file named filename. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD017E

HHCRD017E Unexpected end of file on filename

Explanation
Too few characters were read from the file named filename. The autopad option was not specified.

Action
Either ensure that all records in the file are 80 bytes long, or specify the autopad option on the reader definition.
HHCRD018E

HHCRD018E Error reading file filename: error

Explanation
An error was encountered while attempting to read an ASCII card image from the file named filename. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD019E

HHCRD019E Card image exceeds size bytes in file filename

Explanation
A line in the file named filename is too long to fit on one card. The trunc option was not specified. The maximum length is size bytes.

Action
Either ensure that all lines in the file are less than size bytes long or specify the trunc option on the reader definition.
32. Messages HHCSDrnnns -
Socket Devices Common Functions

HHCSDrnnns
Messages HHCSDrnnns are not yet documented.
33. Messages HHCTAnnns - Tape Device Emulation

HHCTAnnns
Messages HHCTAnnns are not yet documented.
HHCTCnnns

Messages HHCTCnnns are not yet documented.
35. Messages HHCTEnnns - Terminal Emulation

HHCTE001I

HHCTE001I Console connection thread started: tid=threadid, pid=processid

Explanation
The thread that handles connection requests from console devices has been started.

Action
No action required.

HHCTE002W

HHCTE002W Waiting for port port to become free

Explanation
The thread that handles connection requests from console devices is waiting for the TCP port denoted by port to become available for use.

Action
If this message persists, some other program has control of the TCP port listed. Determine the program involved and terminate it.

HHCTE003I

HHCTE003I Waiting for console connection on port port pid=num

Explanation
Hercules is ready to accept console connections on port port.

Action
No action required.

HHCTE004I

HHCTE004I Console connection thread terminated

Explanation
The thread that handles connection requests from console devices has been terminated.

Action
No action required.
HHCTE005E

HHCTE005E Cannot create console thread: reason

Explanation
The thread that handles connection requests from console devices could not be started. The reason is shown as reason.

Action
Correct the reason listed and restart Hercules.

HHCTE006A

HHCTE006A Enter input for console device address

Explanation
The 1052 console device at address is waiting for input.

Action
Type the desired input for the console and press the ENTER key. If you do not wish to get this message when input is requested, define the console with the option noprompt.

HHCTE007I

HHCTE007I Device address closed by client ipaddr

Explanation
The client at IP address ipaddr that was connected to the 3270 console at address address has closed the connection. The device is no longer available for use.

Action
No action required.

HHCTE008I

HHCTE008I Device address closed by client ipaddr

Explanation
The client at IP address ipaddr that was connected to the 1052 console at address address has closed the connection. The device is no longer available for use.

Action
No action required.
HHCTE009I

HHCTE009I Client ipaddr connected to type device address

Explanation
The client at IP address ipaddr has connected to Hercules as a type device and is now available at address address.

Action
No action required.

HHCTE010E

HHCTE010E CNSLPORT statement invalid: statement

Explanation
The CNSLPORT statement in the Hercules configuration file is invalid.

Action
Correct the CNLSSPORT statement in the configuration file and restart Hercules.

HHCTE011E

HHCTE011E Device devn: Invalid IP address: ipaddr

Explanation
The IP address ipaddr is invalid.

Action
Correct the IP address in the configuration file and restart Hercules.

HHCTE012E

HHCTE012E Device devn: Invalid mask value: ipmask

Explanation
The mask value ipmask is invalid.

Action
Correct the mask value in the configuration file and restart Hercules.

HHCTE013E

HHCTE013E Device devn: Extraneous argument(s): xxx...

Explanation
The argument(s) xxx and any which follow it (if any) was not recognized or understood and are thus invalid.
Action
Correct the arguments in the configuration file and restart Hercules.

HHCTE014I

HHCTE014I type device devn disconnected.

Explanation
The client connected to device devn has abruptly terminated the connection (ECONNRESET).

Action
No action required.

HHCTE017E

HHCTE017E Device devn: Duplicate SYSG console definition.

Explanation
Device number devn has been defined as an integrated 3270 (SYSG) console, but a SYSG console already exists. Only one SYSG console can be defined per system.

Action
Correct the statement in the configuration file and restart Hercules.
HHCTMnnns

Messages HHCTMnnns are not yet documented.
37. Messages HHCTSnns - TAPESPLT Utility

HHCTSnns
Messages HHCTSnns are not yet documented.
38. Messages HHCTTnnns - TOD Clock and Timer Services

HHCTT001W

HHCTT001W Timer thread set priority priority failed: error

Explanation
An attempt to change the priority of the timer thread to priority failed. The error is described by error. The thread priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.

HHCTT002I

HHCTT002I Timer thread started: tid=threadid, pid=processid, priority=priority

Explanation
The thread for timing functions has been started. Its thread id is threadid, its process id is processid and the thread priority is priority.

Action
No action required.

HHCTT003I

HHCTT003I Timer thread ended

Explanation
The thread for timing functions has ended.

Action
No action required.
39. Messages HHCTUnnns - TUN / TAP Driver Support

HHCTUnnns
Messages HHCTUnnns are not yet documented.
40. Messages HHCVMnnns - VM / CP Emulation

HHCVM001I

HHCVM001I *panel_command* panel command Module guest

Explanation
The guest operating system has issued a DIAGNOSE 8 instruction to perform the panel_command panel command to be carried out by the Hercules panel command processor

System Action
The Hercules panel command processor carries out the command if possible.

Operator Action
None

Programmer Action
No action is requested if this behaviour is expected. If this behaviour poses a security concern, the DIAG8CMD configuration statement should either be omitted or specified with the disabled argument.

HHCVM002I

HHCVM002I *panel_command* command complete

Explanation
The panel_command panel command has been carried out by the panel command processor. Note that this message only appears if the guest issued diagnose 8 instruction specified that it did not request the command response to be placed in a supplied buffer.

System Action
The system continues

Operator Action
None. This is an informational message

Programmer Action
None. This is an informational message

HHCVM003I

HHCVM003I Host command processing disabled by configuration statement

Explanation
The guest operating system attempted using the DIAGNOSE 8 instruction to carry out a panel command, but the system configuration disabled this feature (with the DIAG8CMD configuration statement)

System Action
The panel command is ignored.
Operator Action
None.

Programmer Action
If it is deemed necessary for the guest operating system to issue DIAGNOSE 8 commands to issue panel commands, the DIAG8CMD with the enable argument should be specified in the configuration file.

HHCVM004E

HHCVM004E Host command processing not included in engine build

Explanation
The Hercules engine has been built without Diagnose 8 panel command facility support

System Action
The panel command is not issued. The system continues.

Operator Action
None

Programmer Action
If it is desired that DIAGNOSE 8 Instruction be carried out as panel commands, the facility should be included in the build process. Additionally, the DIAG8CMD configuration statement should be specified with the enable parameter.
Appendix A. Links

- The Hercules System/370, ESA/390, and z/Architecture Emulator
  
  http://www.hercules-390.org

- Hercules Developer Snapshots (Ivan Warren)
  
  http://www.ivansoftware.com/snapshots/snapshots

- Hercules PDF Documentation (Peter Glanzmann)
  
  http://hercdoc.glanzmann.org

- The MVS Tur(n)key System, Version 3 (Volker Bandke)
  
  
  http://www.mvs-turnkey.de

- Hercules WinGUI (“Fish”, David B. Trout)
  
  http://www.softdevlabs.com/Hercules/hercgui-index.html

- CTCI-W32 (“Fish”, David B. Trout)
  
  http://www.softdevlabs.com/Hercules/ctci-w32-index.html

- Hercules Studio (Jacob Dekel)
  
  http://www.mvdsasd.org/hercstudio

- WinPcap, Politecnico di Torino
  
  http://www.winpcap.org
- Vista tn3270, Tom Brennan Software
  
  http://www.tombrennansoftware.com

- X3270, Paul Mattes
  
  http://x3270.bgp.nu

- AWSBROWSE ("Fish", David B. Trout)
  
  http://www.softdevlabs.com/Hercules/hercgui-index.html

- XMIT Manager
  
  www.cbttape.org

- CBT MVS Utilities Tape (CBTTAPE)
  
  www.cbttape.org

- Microsoft Visual C++ 2008 Express
  
  http://www.microsoft.com/express/download/

- ZLIB
  
  http://www.zlib.net
  
  http://www.softdevlabs.com/Hercules/ZLIB1-1.2.3-bin-lib-inc-vc2008-x86-x64.zip

- BZIP2
  
  http://www.bzip.org
  
  http://www.softdevlabs.com/Hercules/BZIP2-1.0.5-bin-lib-inc-vc2008-x86-x64.zip
• PCRE

http://www.pcre.org

http://www.softdevlabs.com/Hercules/PCRE-6.4.1-bin-lib-vc2008-x86-x64.zip
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