GC38-1006-2
File No. S370-37

Systems

OS/VS Message Library: Service Aids and OLTEP Messages

VS1 Release 2
VS2 Release 1

IBM

Preface

This publication lists the messages produced by the OS/VS Service Aids programs A/HHLGTF, A/HMASPZAP, A/HMBLIST, A/HMDPRDMP, A/HMDSADMP, IFCEREP0, IFCDIP00, OLTEP (IFD), and IMCJOBQD. Each message is explained and, where appropriate, a programmer response is suggested. Problem determination actions accompany problem identifying messages; IBM requests that you perform the actions before calling the IBM branch office serving your locality for either programming or hardware support.

Associated Publications

This publication contains references to other publications or to procedures and concepts documented in other publications.

These publications include:

OS/VS Service Aids, GC28-0633

OS/VS OLTEP, GC28-0636

OS/VS RDE Guide, GC28-0642

IBM Data Processing Glossary, GC20-1699

OS/VS1 Debugging Guide, GC24-0593

OS/VS SYS1.LOGREC Error Recording, GC28-0638

OS/VS2 Debugging Guide, GC28-0632

OS/VS Utilities, GC35-0005

A list of the books belonging to the *OS/VS Message Library* is contained in Figure 2 of this publication.

Third Edition (December, 1972)

This is a major revision of, and obsoletes GC38-1006-1. See Summary of Amendments following the Contents. Changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

This edition applies to release 2 of OS/VS1 and release 1 of OS/VS2 and to all subsequent releases until otherwise indicated in new editions or Technical Newsletters. Changes are continually made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/360 and System/370 Bibliography*, Order No. GA22-6822, and the current *SRL Newsletter*, Order No. GN20-0360, for the editions that are applicable and current.

Requests for copies of IBM publications should be made to your IBM representative or to the IBM branch office serving your locality.

A form for readers' comments is provided at the back of this publication. If the form has been removed, comments may be addressed to IBM Corporation, Publications Development, Department D58, Building 706-2, PO Box 390, Poughkeepsie, N.Y. 12602. Comments become the property of IBM.

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Summary of Amendments For GC38-1006-2 VS1 Release 2 VS2 Release 1

A/HMBLIST

A/HMBLIST added two new messages. A/HMB115I notifies the programmer that too small a region or partition was specified for buffer space and A/HMB130I notifies the programmer that the wrong nucleus is being mapped. Retrun codes were added.

A/HMBPRDMP

A/HMDPRDMP changed several messages to reflect new recovery procedures when unable to access the Segment or Page Table.

OLTEP

OLTEP added new functions. These functions and their associated messages are as follows:

TALK verb	IFD166I
TRACE facility return code handling	IFD450I
System 7 Attachment Support	IFD113D
SCT level check	IFD227I
PUNCH program	IFD900I, IFD901I, IFD902I, IFD905I
EDITOR program	IFD901I, IFD903I, IFD904I, IFD906I IFD907I, IFD908I, IFD909I
Loader (new)	IFD901I, IFD911I, IFD202I, IFD203I, IFD205I
EXT option	IFD327I
locating CDS	IFD127I

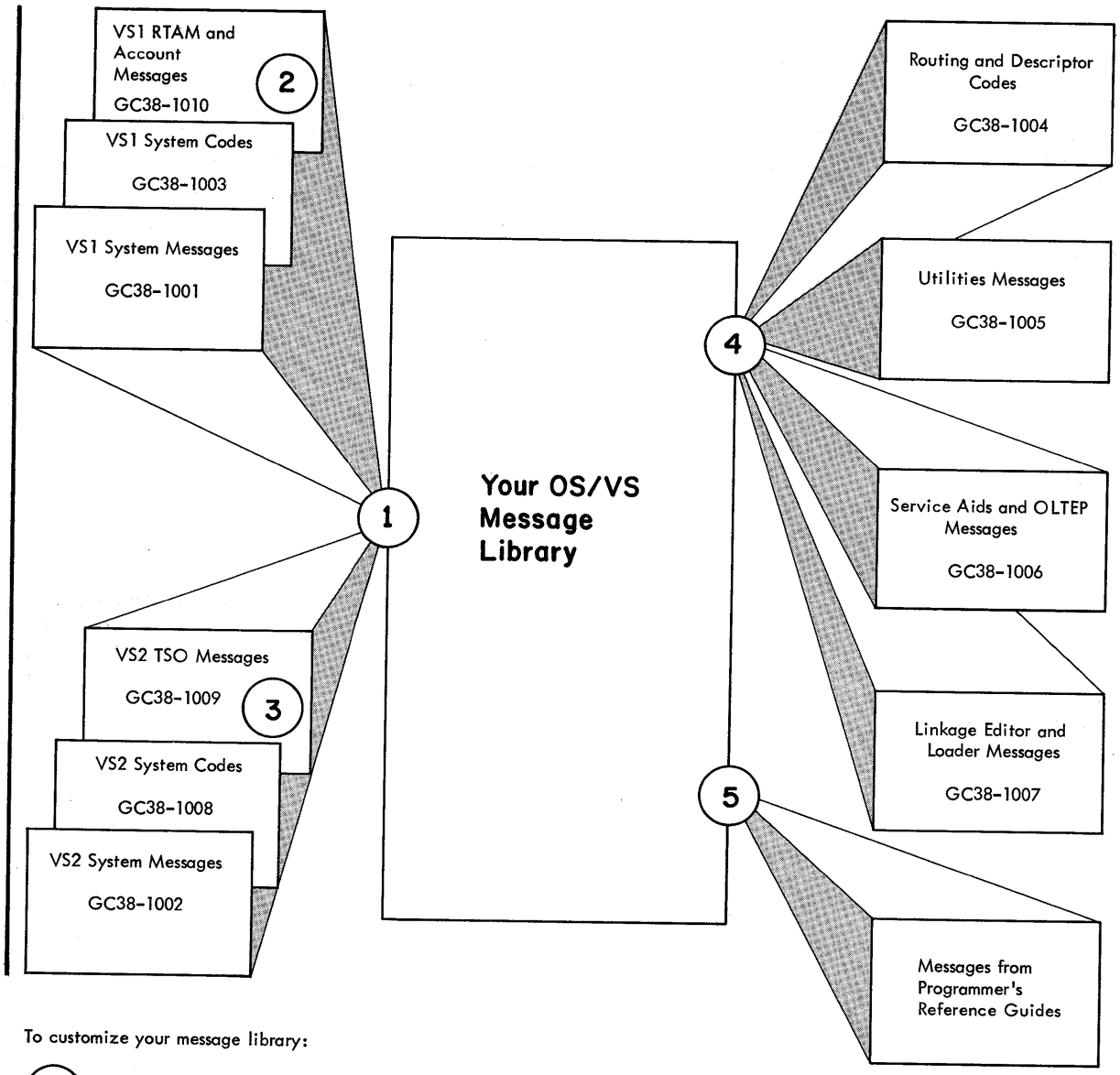
IMCJOBQD

IMCJOBQD added new messages to accommodate QID, input and output classes, jobname specification, and SWADS.

Summary of Amendments For GC38-1006-1 VS1 Release 1 VS2 Release 1

This publication applies to VS1 and VS2. Messages prefixed by H are issued in VS1 only. Messages prefixed by A are issued by VS2 only. Messages prefixed by A/H are issued in both VS1 and VS2.

Customizing Your OS/VS Message Library



To customize your message library:

1. Select the base publications of System Messages and System Codes that are compatible with your system, either VS1 or VS2.
2. If your installation has both VS1 and Remote Entry Services (RES), you may want to include VS1 RTAM and Account Messages in your customized library.
3. If your installation has both VS2 and TSO, you may want to include VS2 TSO Messages in your customized library.
4. Select any of the four supplementary messages and codes publications that fit the needs of your installation.
5. If your installation uses a particular compiler or application program, you may want to append the program's messages to your message library. These messages are in the associated programmer's guide.

Figure 1. Customizing Your OS/VS Message Library

Introduction

The OS/VS Message Library is designed so you can tailor messages and codes documentation to fit your specific needs. For example:

- A system programmer or an installation manager may want all books in the Message Library.
- An operator may want to add the appropriate **System Messages** books and **System Codes** books to his Operator's Library.
- An assembler language programmer may want **System Messages, System Codes, Linkage Editor and Loader Messages,** and the message section from the **Assembler Language Programmer's Guide.**
- A COBOL programmer may want to add **Utilities Messages** to his COBOL programmer's guide.

In any case, you can select the appropriate books to build your own Message Library.

Basic Books

Each installation requires at least one copy of **VS1 System Messages** or **VS2 System Messages** because some of the messages in these books will appear at the console or in output listings no matter which options are included in the operating system.

Each installation also requires a copy of **VS1 System Codes** or **VS2 System Codes** which contains the system completion (ABEND) codes and wait state codes produced by all the components of OS/VS1 or OS/VS2. Systems programmers and operators need these books; however, applications programmers should not.

Optional Books

If your installation uses TSO (an option only available with OS/VS2), add **TSO Messages** to your copy of **VS2 System Messages.**

If your installation uses Remote Entry Services (RES, an option only available with OS/VS1), add **RTAM and Account Messages** to your copy of **VS1 System Messages.**

Some messages have **Routing and descriptor codes** which are contained in a separate volume of the Message Library, Routing and Descriptor Codes. System programmers need this book, especially if your operating systems have multiple console support (MCS).

Depending on your requirements, you may want copies of **Utilities Messages, Service Aids and OLTEP Messages,** or **Linkage Editor and Loader Messages.** Consult Figure 2 for publication titles, order numbers, and contents.

OS/VS Message Library

Publication	Order Number	Contents
VS1 System Messages	GC38-1001	IEA, IEC, IED, IEE, IEF, IEI, IFA, IFB, IGF, IHB, IHJ, IHK messages
VS2 System Messages	GC38-1002	IEA, IEC, IED, IEE, IEF, IEI, IFA, IFB, IGF, IHB, IHG, IHJ messages
VS1 System Codes	GC38-1003	all completion and wait state codes
Routing and Descriptor Codes	GC38-1004	all routing and descriptor codes
Utilities Messages	GC38-1005	IBC, IEB, IEH messages
Service Aids and OLTEP Messages	GC38-1006	HHL, HMA, HMB, HMD, IFC, IFD, IMC messages
Linkage Editor and Loader Messages	GC38-1007	IEW messages
VS2 TSO Messages	GC38-1009	IKJ, IKM, IPD messages
VS1 RTAM and Account Messages	GC38-1010	IFS and IKJ messages
In other SRLs:		
Assembler Language Programmer's Guide	GC33-4021	IFO messages
Emulator publications	See: IBM System/360 and System/370 Bibliography	emulator messages
Problem Determination Aids and Messages for Graphic Programming Services (GPS) and Graphic Subroutine Package (GSP)	GC27-6974	IFF messages

Figure 2. OS/VS Message Library

Prefix	Component	Publication Title	Order Number
AHL	Generalized Trace Facility	Service Aids and OLTEP Messages	GC38-1006
AMA	AMAPTFLE	Service Aids and OLTEP Messages	GC38-1006
AMB	AMBLIST	Service Aids and OLTEP Messages	GC38-1006
AMD	AMDPRDMP	Service Aids and OLTEP Messages	GC38-1006
HHL	Generalized Trace Facility	Service Aids and OLTEP Messages	GC38-1006
HMA	HMAPTFLE	Service Aids and OLTEP Messages	GC38-1006
HMB	HMBLIST	Service Aids and OLTEP Messages	GC38-1006
HMD	HMDPRDMP	Service Aids and OLTEP Messages	GC38-1006
IBC	Independent Utility	Utilities Messages	GC38-1005
IEA	Supervisor	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IEB	Data Set Utility	Utilities Messages	GC38-1005
IEC	Data Management	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IED	Telecommunications Access Method	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IEE	Master Scheduler	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IEH	System Utility	Utilities Messages	GC38-1005
IEI	System Generation	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IEW	Loader and Linkage Editor	Linkage Editor and Loader Messages	GC38-1007

Figure 3. Message Directory (Part 1 of 2)

Prefix	Component	Publication Title	Order Number
IFA	SMF Dump Program	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IFB	Environment Recording	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IFC	IFCEREP0 and IFCDIP00	Service Aids and OLTEP Messages	GC38-1006
IFD	Online Test Executive	Service Aids and OLTEP Messages	GC38-1006
IFF	Graphic Programming Services	Problem Determination Aids and Messages for GPS and GSP	GC37-6974
IFS	Remote Terminal Access Method	RTAM and Account Messages	GC38-1010
IFO	Assembler	Assembler Language Programmer's Guide	GC33-4021
IGF	Machine Check Handler and DDR	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IHB	Supervisor & Data Management Macros	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IHG	Maintenance Program Analyzer	VS2 System Messages	GC38-1002
IHJ	Checkpoint/Restart	VS1 System Messages VS2 System Messages	GC38-1001 GC38-1002
IHK	Remote Job Entry	VS1 System Messages	GC38-1001
IKJ	Time Sharing Option	TSO Messages	GC38-1009
IKJ	Account Facility	RTAM and Account Messages	GC38-1010
IKM	PL/I Syntax Checker	TSO Messages	GC38-1009
IMC	IMCJOBQD	Service Aids and OLTEP Messages	GC38-1006
IPD	FORTRAN Syntax Checker	TSO Messages	GC38-1009

Figure 3. Message Directory (Part 2 of 2)

Component Name	A/HHL
Program Producing Message	Generalized Trace Facility
Audience and Where Produced	For the programmer: in the system output listings. For the operator: on the system console.
Message Format	A/HHLnnns text (in listings) xxA/HHLnnns text Pnn (on console) nnn Message serial number text Message text. xx Message reply identification (absent, if operator reply not required). s Type code: A Action; operator must perform a specific action. D Decision; operator must choose an alternative. E Eventual action; operator must perform an action when he has time. I Information; no operator action is required. W Wait; processing stopped until action is determined and performed. Pnn Partition which issued the message.
Comments	None.
Problem Determination	Refer to fold-out Tables I and II at the back of this publication for problem determination instructions.

A/HHL001A INVALID KEYWORD. RESPECIFY PARAMETERS OR REPLY U

Explanation: A keyword specified on the START command for the Generalized Trace Facility (GTF) is not correct.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Probable user error. Respecify all parameters, or reply 'U' to request default values.
Problem Determination: Table I, items 2, 7a, 29.

A/HHL002A INVALID DELIMITER. RESPECIFY PARAMETERS OR REPLY U

Explanation: The START command parameters for the Generalized Trace Facility (GTF) have been punctuated incorrectly.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Probable user error. Respecify all parameters, or reply 'U' to request default values.
Problem Determination: Table I, items 2, 7a, 29.

A/HHL003A INVALID OPERAND. RESPECIFY PARAMETERS OR REPLY U

Explanation: An operand in the START command for the Generalized Trace Facility (GTF) was specified incorrectly.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Probable user error. Respecify all parameters, or reply 'U' to request default values.
Problem Determination: Table I, items 2, 7a, 29.

A/HHL004A KEYWORD(S) REPEATED. RESPECIFY PARAMETERS OR REPLY U.

Explanation: In the START command for the Genralized Trace Facility (GTF), a keyword is repeated.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Probable user error. Respecify all parameters, or reply 'U' to request default values.
Problem Determination: Table I, items 2, 7a, 29.

A/HHL006I GTF ACKNOWLEDGES STOP COMMAND

Explanation: The operator issued the STOP command for GTF.
System Action: GTF terminates.
Operator Response: None.

A/HHL007I GTF TERMINATING ON ERROR CONDITION

Explanation: The Generalized Trace Facility is terminating because it has detected an error conditon.
System Action: GTF terminates.
Operator Response: Restart GTF.
Problem Determination: Table I, items 2, 7a, 29. Restart GTF using the GTFSNP procedure, and save the dump that is produced upon termination of GTF.

A/HHL008A INCORRECT BUF VALUE. RESPECIFY PARAMETERS OR REPLY U

Explanation: The value specified for the BUF keyword on the START GTF command is not correct.
System Action: GTF initialization will not continue until the operator responds to the message.

Operator Response: Probable user error. Respecify all parameters, or reply 'U' to request default values. The allowable value range for the BUF keyword is 1 to 255 (decimal).
Problem Determination: Table I, items 2, 7a, 29.

A/HHL009I GTF UNABLE TO FIX NECESSARY STORAGE

Explanation: GTF initialization attempted to issue a long-term fix on the storage required for tracing, but the system would not allow the storage to be fixed.
System Action: GTF initialization terminates.
Programmer Response: Restart GTF using the GTFSNP procedure.
Problem Determination: Table I, items 2, 7a, 16, 29.

HHL010I GTFSRV FAILURE, GTF TERMINATING

Explanation: GTF initialization did not complete for one of the following reasons:

- HHLMCIH could not be fixed in storage.
- A TIRB pool could not be obtained.
- The program requesting the above functions did not have a protect key of 0.

System Action: GTF initialization terminates.
Programmer Response: None.
Operator Response: Allow the system to enter a wait state, and restart GTF using the GTFSNP procedure.
Problem Determination: Table I, items 2, 7a, 16, 29.

A/HHL012I SYSPRINT DD STATEMENT NOT SUPPLIED

Explanation: A DD statement was not included in the GTF procedure for the SYSPRINT data set.
System Action: GTF terminates.
Programmer Response: Probable user error. Be sure to provide a SYSPRINT DD statement.
Problem Determination: Table I, items 2, 4, 7a, 29.

A/HHL013I GTF ACTIVE FROM A PREVIOUS START COMMAND.

Explanation: The operator entered a START command for the Generalized Trace Facility (GTF), but GTF is already active.
System Action: The second request for GTF is ignored. The GTF that was previously started remains active.
Operator Response: Probable user error. The active GTF must be stopped before another GTF procedure can be started.
Problem Determination: Table I, items 2, 7a, 29.

A/HHL014I UNSUCCESSFUL OPEN OF SYSPRINT DATA SET

Explanation: The SYSPRINT data set was not opened successfully.
System Action: GTF terminates.
Problem Determination: Table I, items 2, 4, 7a, 29.

A/HHL015I STAE REQUEST UNSUCCESSFUL

Explanation: The STAE request for the Generalized Trace Facility was not performed.
System Action: GTF terminates.
Operator Response: Probable user error. Ensure that the partition size is adequate for executing GTF.
Problem Determination: Table I, items 2, 4, 7a, 29.

A/HHL016I GTF INITIALIZATION UNSUCCESSFUL

Explanation: The initialization of the Generalized Trace Facility (GTF) was not successful. The exact cause of termination is given in a previous message.
System Action: GTF terminates.
Operator Response: Take the action required by the message indicating the cause of termination.
Problem Determination: If there is no preceding message, see Table I, items 2, 4, 7a, 29. Restart GTF using the GTFSNP procedure and save the dump produced upon termination of GTF.

HHL017I SYSTEM SIZE NOT SUPPORTED BY GTF

Explanation: GTF was started on a system which does not have enough real storage. The minimum amount of real storage required by GTF is:

144K - if MODE = INT
or
160K - if MODE = EXT

System Action: GTF initialization terminates.
Programmer Response: Probable user error. Make sure that there is sufficient real storage available before starting GTF.
Operatore Response: None.
Problem Determination: Table I, items 2, 16, 29. Restart GTF using the GTFSNP procedure.

A/HHL021I IEFRDER DD STATEMENT NOT SUPPLIED

Explanation: An IEFRDER DD statement has not been included in the GTF procedure.
System Action: GTF terminates.
Operator Response: Notify the system programmer or installation manager that this failure has occurred.
Programmer Response: Probable user error. Include an IEFRDER DD statement in the GTF procedure using the IEBUPDTE utility.
Problem Determination: Table I, items 2, 4, 7a, 29. Restart GTF using the GTFSNP procedure, and save the dump that is produced upon termination of GTF.

A/HHL022I OPEN FAILURE FOR TRACE DATA SET

Explanation: The TRACE data set failed to open.
System Action: GTF terminates.
Programmer Response: Probable user error. Be sure to specify the parameters on the DD statement correctly.
Problem Determination: Table I, items 2, 3, 7a, 29. Restart GTF using the GTFSNP procedure, and save the dump that is produced upon termination of GTF.

A/HHL023I INSUFFICIENT BUFFER SIZE -- DEFAULT ASSIGNED

Explanation: The buffer size specified in the GTF procedure is less than the minimum default size. The minimum default size will be used.
System Action: GTF continues processing.
Programmer Response: Probable user error. Increase the buffer size specified in the GTF procedure so that it is greater than, or equal to, the default size.
Problem Determination: Table I, items 2, 4, 7a, 29.

A/HHL031I GTF INITIALIZATION COMPLETE

Explanation: Initialization of the Generalized Trace Facility completed successfully.
System Action: GTF continues processing.
Operator Response: None.

A/HHL040 NOT A LEGAL FORM OF THE MACRO. CHECK THE MF =

Explanation: A parameter other than L (for the LIST format) or E (for the EXECUTE format) is specified in the MF = keyword of the GTRACE macro instruction. L and E are the only valid parameters.

System Action: The macro is not expanded (severity code - 8).
Programmer Response: Probable user error. Correct the MF = keyword, specifying a valid parameter (L or E). Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL041 LNG = KEYWORD MISSING

Explanation: The LNG = keyword is not specified in the GTRACE macro instruction. If the standard form of the GTRACE macro instruction is being used, the LNG = keyword must be specified with a valid parameter.
System Action: The macro is partially expanded; expansion stops following detection of the omission (severity code - 12).
Programmer Response: Probable user error. Correct the GTRACE macro instruction, specifying the LNG = keyword with a valid parameter. A valid parameter is any decimal integer in the range 1 to 256. Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL044 DATA = KEYWORD MISSING

Explanation: The DATA = keyword is not specified in the GTRACE macro instruction. If the standard form of the GTRACE macro is being used, the DATA = keyword must be specified with a valid parameter.
System Action: The macro is partially expanded; expansion stops following detection of the error (severity code - 12).
Programmer Response: Probable user error. Correct the GTRACE macro instruction, specifying the DATA keyword with a valid parameter. Valid parameters are a register number in parentheses or an A-type address constant. Rerun the job.
Problem Determination: Table I, items 4, 29, 29.

A/HHL045 MF = (E, PARAMETER SPECIFICATION MISSING

Explanation: In the GTRACE macro instruction, the parameter specification for the MF = keyword is incomplete. If the EXECUTE form of the GTRACE macro is being used, the address of the parameter list must be included as part of the MF = operand.
System Action: The macro is not expanded (severity code - 12).
Programmer Response: Probable user error. Correct the GTRACE macro instruction, specifying the address of the parameter list as part of the MF = operand. Specify the address observing the syntax rules governing address specification for an RX-type instruction, or one of the general registers 1-12, previously loaded with the address. For example, if the address of the parameter list is in register 1, MF = (E,(1)) should be specified. Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL048 ID = KEYWORD MISSING

Explanation: The ID = keyword is not specified in the GTRACE macro instruction. The ID = keyword must be specified for either form (standard or EXECUTE) of the GTRACE macro.
System Action: The macro is partially expanded; expansion stops following detection of the error (severity code - 12).
Programmer Response: Probable user error. Correct the GTRACE macro instruction, specifying the ID = keyword with the appropriate parameter. Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL052 INSUFFICIENT KEYWORD PARAMETERS

Explanation: The EID keyword is not specified in the HOOK macro instruction. This keyword must be included in the HOOK macro.
System Action: The macro is not expanded (severity code - 8).
Programmer Response: Probable user error. Correct the HOOK macro instruction, specifying the EID = keyword with a valid symbolic parameter. Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL053 INVALID TYPE = KEYWORD

Explanation: An invalid parameter is specified for the TYPE = keyword of the HOOK macro instruction. A parameter other than P, BP, T, or BT is specified.
System Action: The macro is not expanded (severity code - 8).
Programmer Response: Probable user error. Correct the TYPE = keyword, specifying a valid parameter. Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL055 INVALID EID = KEYWORD

Explanation: An invalid parameter is specified for the EID keyword of the HOOK macro instruction.
System Action: The macro is not expanded (severity code - 8).
Programmer Response: Probable user error. Correct the EID keyword, specifying a valid symbolic parameter. Rerun the job.
Problem Determination: Table I, items 4, 19, 29.

A/HHL100A SPECIFY TRACE OPTIONS

Explanation: The trace options for the Generalized Trace Facility (GTF) are to be entered in response to this message.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Enter REPLY xx,'TRACE = option, option,...,option' for the desired trace options.

A/HHL101A SPECIFY TRACE EVENT KEYWORDS -- keywd,...,keywd

Explanation: The event keywords for the Generalized Trace Facility (GTF) which correspond to the trace options specified in response to message A/HHL100A are to be entered in response to this message. Only those event keywords appearing in the message text (keywd,...,keywd) may be specified in the response. The keyword(s) and their corresponding trace options (as specified in the reply to message A/HHL100A) are as follows:

- keyword IO = for option IOP
- keyword SIO = for option SIOP
- keyword SVC = for option SVCP
- keyword PI = for option PIP
- keywords IO = ,SIO = ,PI = ,SVC = for option SYSP

System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Enter REPLY id,'keyword = (value,...,value),keyword = (value,...value),...' for those keywords allowed.

A/HHL102A CONTINUE TRACE DEFINITION OR REPLY END

Explanation: Event keywords for the Generalized Trace Facility (GTF) may be entered in response to this message to continue the trace definition. END may be entered to terminate the definition.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: Enter REPLY id,'keyword = (value,...,value),keyword = (value,...,value),...' for those keywords allowed.

A/HHL103I TRACE OPTIONS SELECTED -- value,value,...,value

Explanation: The trace options specified for the Generalized Trace Facility (GTF) are noted by value,...,value. The value(s) correspond to those options specified in the response to message A/HHL100A or in the control statements provided by the SYS1.PARMLIB data set. If additional trace definitions were requested, the values also indicate those keywords and values provided by the SYS1.PARMLIB data set or in response to messages A/HHL101A and A/HHL102A.
System Action: GTF initialization continues.
Operator Response: If the values do not indicate the desired trace options, the options may be respecified in the response to message A/HHL125A.

A/HHL104A TRACE = KEYWORD NOT SPECIFIED

Explanation: The TRACE = keyword was not specified in the response to message A/HHL100A or in the control statements provided by the SYS1.PARMLIB data set.
System Action: The control statement is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If control statements are being entered by way of the master console, enter the response again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL105A SYNTAX ERROR. IMPROPER DELIMITER

Explanation: The response to message A/HHL100A, A/HHL101A, A/HHL102A, or the control statement provided by the SYS1.PARMLIB data set is punctuated incorrectly.
System Action: The control statement is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If the control statements are being entered by way of the system console, enter the response again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL106A NO OPTIONS SPECIFIED

Explanation: In the response to message A/HHL100A or in the control statement provided by the SYS1.PARMLIB data set, the TRACE = keyword is either followed by a blank, which precedes the options, or is not followed by options.
System Action: The control statement is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If the control statements are being entered by way of the system console, enter the response again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL107A SYNTAX ERROR. MISSING COMMA

Explanation: In response to message A/HHL100A, A/HHL101A, or A/HHL102A, or in the control statements provided by the SYS1.PARMLIB data set, a comma that should appear is missing.
System Action: The control statement is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If control statements are being entered by way of the system console, enter the reponse again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL108A INVALID OPTION SPECIFIED -- opt.

Explanation: In the response to message A/HHL100A or in the control statements provided by the SYS1.PARMLIB data set, an invalid Generalized Trace Facility option (opt) was specified.
System Action: The control statement is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If control statements are being entered by way of the system console, enter the response again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL109A INVALID DEVICE SPECIFIED -- ddd

Explanation: In the response to message A/HHL101A or A/HHL102A or in the control statements provided by the SYS1.PARMLIB data set, a device address (ddd) was specified in the IO = , SIO = , or IO = SIO = parameter that was not included in the system at system generation.
System Action: The control statement is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If control statements are being entered by way of the system console, enter the response again.
Problem Determination: Table I, items 2, 4, 11, 29.

A/HHL110A INVALID EVENT KEYWORD SPECIFIED.

Explanation: A keyword was specified incorrectly in the response to message A/HHL101A, A/HHL102A, or in the control statements provided by the SYS1.PARMLIB data set.
System Action: The response is not accepted.
Operatore Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If control statements are being entered by way of the system console, enter the response again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL111A UNBALANCED PARENTHESIS IN KEYWORD keywd

Explanation: A parenthesis is missing for the keyword (keywd) in the response to message A/HHL101A, in the response to message A/HHL102A, or in the control statements provided by the SYS1.PARMLIB data set.
System Action: The response is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement in error and rerun the job. If control statements are being entered by way of the system console, enter the response again.
Problem Determination: Table I, items 2, 4, 29.

A/HHL112A UNALLOWABLE KEYWORD FOR THE PROPTING SEQUENCE--keywd

Explanation: In response to message A/HHL101A, in the response to message A/HHL102A, or in the control statements provided by the SYS1.PARMLIB data set, a keyword (keywd) was used that was not specified in the TRACE = options when starting the Generalized Trace Facility (GTF).
System Action: The response is not accepted.

Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the statement and rerun the job. If control statements are being entered by way of the system console, enter the response again using only those keywords noted in message A/HHL101A.
Problem Determination: Table I, items 2, 4, 29.

A/HHL113A LMT ERROR. EXCEEDED 50 DEVICES FOR IO =

Explanation: In the response to message A/HHL101A or A/HHL102A or in the control statement provided by the SYS1.PARMLIB data set, more than 50 device addresses were specified for the IO = keyword.
System Action: The response is not accepted and all previous device addresses specified in the IO = keyword are disregarded.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the error and rerun the job. If control statements are being entered by way of the system console, reenter no more than 50 device addresses.
Problem Determination: Table I, items 2, 4, 29.

A/HHL114A LMT ERROR. EXCEEDED 50 DEVICES FOR SIO =

Explanation: In response to message A/HHL101A, A/HHL102A, or in the control statements provided by the SYS1.PARMLIB data set, more than 50 device addresses were specified for the SIO = keyword.
System Action: The response is not accepted and all previous device addresses specified in the SIO = keyword are disregarded.
Operator Response: Probable user error. If the control statements are being supplied by the SYS1.PARMLIB data set, correct the error and rerun the job. If control statements are being entered by way of the system console, reenter no more than 50 device addresses.
Problem Determination: Table I, items 2, 4, 29.

A/HHL115A INVALID INTERRUPT CODE SPECIFIED

Explanation: In the response to message A/HHL101A or A/HHL102A or in the control statements being provided through the system console, an invalid interruption code was specified for the PI = keyword.
System Action: The response is not accepted.
Operator Response: Probable user error. If control statements are being supplied by the SYS1.PARMLIB data set, correct the error and rerun the job. If control statements are being entered by way of the system console, enter the response again specifying a valid interruption code.
Problem Determination: Table I, items 2, 4, 29.

A/HHL116A INVALID SVC NUMBER SPECIFIED.

Explanation: In the response to message A/HHL101A or A/HHL102A, or in the control statements provided by the SYS1.PARMLIB data set, an SVC number greater than 255 was specified in the SVC = keyword.
System Action: The response is not accepted.
Operator Response: Probable user error. If control statements are being provided by the SYS1.PARMLIB data set, correct the error and rerun the job. If control statements are being entered by way of the system console, enter the response again specifying a valid SVC number.
Problem Determination: Table I, items 2, 4, 29.

A/HHL117A LMT ERROR. EXCEEDED 50 SVC NUMBERS

Explanation: In the response to message A/HHL101A or A/HHL102A or in the control statements being provided by the SYS1.PARMLIB data set, more than 50 SVC numbers were specified for the SVC = keyword.
System Action: The response is not accepted and all previous SVC numbers specified are disregarded.
Operator Response: Probable user error. If the control statements are being supplied by the SYS1.PARMLIB data set, correct the error and rerun the job. If control statements are being entered by way of the system console, reenter no more than 50 SVC numbers.
Problem Determination: Table I, items 2, 4, 29.

A/HHL118I ERROR IN A/HHLTxxxx. yyy DISABLED. TIME = hh.mm.ss

Explanation: An error has occurred in the Generalized Trace Facility (GTF) module A/HHLTxxxx. As a result, function yyy will no longer be traced or filtered.
System Action: If GTF is in DEBUG mode, it will terminate immediately. If GTF is not in DEBUG mode, it will continue to trace all events except yyy. If the module name is A/HHLFIL, the filtering of event yyy has been disabled and all events of that type will be traced.
Operator Response: None.
Problem Determination: Table I, items 2, 4, 13, 16, 29. Stop GTF. Start the GTFSNP procedure, EXT mode, DEBUG = YES, and specifying the same trace options specified for GTF. Execute the A/HMDPRDMP service aid, specifying the EDIT verb. The input for the A/HMDPRDMP service aid is the trace data set.

A/HHL120I SYSTEM NOT VALID FOR GTF -- INITIALIZATION TERMINATED

Explanation: An attempt was made to start GTF on a system other than OS/VS1, or OS/VS2.
System Action: GTF initialization is terminated.
Operator Response: Probable user error.
Problem Determination: Table I, items 2, 4, 7a, 29.

A/HHL121I SYS1.PARMLIB INPUT INDICATED

Explanation: The user has indicated that the trace options for the Generalized Trace Facility (GTF) are to be provided by a member of the SYS1.PARMLIB data set.
System Action: GTF will receive trace options from the SYS1.PARMLIB data set and not from the system console.
Operator Response: None.

A/HHL122I MEMBER NOT SPECIFIED. PARMLIB IGNORED

Explanation: A member name was not found on the SYS1.PARMLIB DD statement.
System Action: The SYS1.PARMLIB data set will not be used to supply trace options to the Generalized Trace Facility. Trace options must be entered by way of the master console.
Programmer Response: Probable user error. Include a valid member name in the SYS1.PARMLIB DD statement.
Problem Determination: Table I, items 2, 4, 29.

A/HHL123I MEMBER mem NOT FOUND. PARMLIB IGNORED

Explanation: The member (mem) indicated on the SYS1.PARMLIB DD statement was not found in the SYS1.PARMLIB data set.

System Action: The SYS1.PARMLIB data set will not be used to supply trace options to the Generalized Trace Facility. Trace options must be supplied from the master console.
Programmer Response: Probable user error. Include a valid member name on the SYS1.PARMLIB DD statement.
Problem Determination: Table I, items 2, 4, 25c, 29.

A/HHL124I GTF PARMLIB INPUT ERROR

Explanation: An error has been found in the trace option parameters specified by the SYS1.PARMLIB data set.
System Action: The trace options specified on the SYS1.PARMLIB data set will be disregarded. Trace options will be requested from the master console.
Programmer Response: Probable user error. A message indicating the exact error is in the job stream list.
Problem Determination: Table I, items 2, 4, 26c, 29.

A/HHL125A RESPECIFY TRACE OPTIONS OR REPLY U.

Explanation: In response to this message, trace options for the Generalized Trace Facility (GTF) may be respecified or a reply of U may be entered to continue initialization.
System Action: GTF initialization will not continue until the operator responds to this message.
Operator Response: If message A/HHL103I does not indicate the trace options you desire, respecify the desired options, beginning with TRACE = . To continue initialization, reply U.

A/HHL126A ILLEGAL SPECIFICATION OF TRACE OPTIONS

Explanation: TRC and/or PCI have been specified, but no other trace options have been specified. TRC and PCI serve only as qualifiers for other trace options.
System Action: The trace options specified have not been accepted.
Operator Response: Probable user error. Reenter the trace options qualifying the options previously specified.
Problem Determination: Table I, items 2, 4, 29.

A/HHL127I GTF PARMLIB I/O ERROR text

Explanation: GTF detected an input/output error while reading the SYS1.PARMLIB data set. The text of the message describes the error: device address, I/O operation, error condition, and access method, used.
System Action: The trace options specified in the SYS1.PARMLIB data set are disregarded. Trace options must be entered by way of the master console.
Operator Response: Enter the trace options from the master console.
Problem Determination: Table I, item 29. Have a listing of the SYS1.PARMLIB data set available.

A/HHL128I GTF MODULE mod NOT FOUND.

Explanation: The GTF module mod was not found.
System Action: GTF terminates.
Operator Response: Restart GTF.
Problem Determination: Table I, items 2, 13, 25c (SYS1.LINKLIB), 29.

A/HHL129I BLDL I/O ERROR LOADING GTF MODULE mod

Explanation: An I/O error occurred during a BLDL for the module (mod).
System Action: GTF terminates.
Operator Response: Restart GTF.
Problem Determination: Table I, items 2, 13, 25c (SYS1.LINKLIB), 29.

A/HHL130I INSUFFICIENT CORE FOR TRACE INITIALIZATION

Explanation: There is not enough virtual storage space for GTF to continue initialization.
System Action: GTF terminates.
Operator Response: Probable user error. Increase the region or partition size and restart GTF.
Problem Determination: Table I, items 2, 4, 7a, 29.

A/HHL131I GTF PARMLIB ERROR DURING OPEN -- nnn

Explanation: An error occurred while the SYS1.PARMLIB data set was being opened. The system completion code is given by nnn.
System Action: Trace options will not be supplied to GTF by the SYS1.PARMLIB data set. All options must be specified from the master console.
Programmer Response: Follow the directions for the system completion code nnn.

Component Name	A/HMX
Program Producing Message	Service Aids: A/HMAPTFLE, A/HMASPZAP, A/HMBMDMAP, A/HMDPRDMP,A/HMDSADMP.
Audience and Where Produced	For Programmer: SYSPRINT data set. For Operator: console.
Message Format	A/HMXnnnI text (in SYSPRINT) id A/HMXnnns text (on console) id Message reply identification (absent if operator reply not required). nnn Message serial number, which is coded to indicate the service aid program. s Type code: A Action; operator must perform a specific action. D Decision; operator must choose an alternative. I Information; no operator action is required. text Message text.
Comments	None.
Problem Determination	Refer to fold-out Tables I and II at the back of this publication for problem determination instructions.

A/HMAPTFLE Messages

A/HMA000I THE FOLLOWING MODULE(S) DID NOT FIND A MATCH

Explanation: The A/HMAPTFLE program could not find a match for the input module name on the Stage 1 output tape for SYSGEN, or a module name has been specified more than once (for example, two input statements contained the same module name).
System Action: If A/HMAPTFLE could not find a match, all module names for which no JCL was produced will be listed following this message. If duplicate module names were encountered, A/HMAPTFLE will list the JCL for the module the first time it processes the name. All subsequent encounters with the same module name will cause A/HMAPTFLE to flag the name as an error (return code--4).
Programmer Response: Probable user error. If the module name was in error, correct the name and rerun the job. For duplicate names, no action is required.
Problem Determination: Table I, items 3, 13, 17a, 29. Have the MODF input available.

A/HMA001I INPUT MODULE TABLE HAS OVERFLOWED BREAK INPUT INTO TWO JOBS AND RERUN

Explanation: The number of input module names has exceeded the limit of 150 allowed in the input module table.
System Action: A/HMAPTFLE stops processing the input, and issues this message (return code--16).
Programmer Response: Probable user error. Break the input data into groups of no more than 150 module names per execution of A/HMAPTFLE, and execute the program as many times as needed to create JCL for all the modules.
Problem Determination: Table I, items 13, 29. Have the MODF input available.

A/HMA002I DATA SET ASSOCIATED WITH THE //ddn DD CARD CANNOT BE OPENED

Explanation: The DCB associated with DD statement ddn cannot be opened. The data set cannot be read.
System Action: A/HMAPTFLE processing is terminated (return code--16).
Programmer Response: Probable user error. Check for errors in the DD statements named in the message. Correct the errors and rerun the job with MSGLEVEL = (1,1) in the JOB statement.
Problem Determination: Table I, items 13, 29.

A/HMA003I UNCORRECTABLE I/O ERROR OCCURRED jjj,sss,ddd,devtyp,ddn,opr,err

Explanation: An uncorrectable I/O error was detected during the execution of an I/O operation. The fields in the message text are:
jjj
The name of the job within which the error occurred.
sss
The name of the step within which the error occurred.
ddd
The unit address of the device on which the error occurred.
devtyp
The device-type of the failing device.
ddn
The name of the DD statement defining the associated data set.
opr
The type I/O operation being performed at the time of the error.
err
The type error that occurred.

System Action: A/HMAPTFLE terminates (return code-- 16).
Programmer Response: Rerun the job specifying MSGLEVEL = (1,1) on the JOB statement.
Problem Determination: Table I, items 13, 29.

A/HMA004I UNIDENTIFIED FORMAT ON SYSGEN STAGE 1 TAPE

Explanation: A/HMAPTFLE has determined that the Stage 1 output tape was from a SYSGEN earlier than OS/360, release 19. The format of this level Stage 1 output tape is not supported by A/HMAPTFLE.
System Action: A/HMAPTFLE processing terminates (return code--16).
Programmer Response: Probable user error. Verify that the:
- stage 1 output tape is from a sysgen earlier than OS/360, release 19.
- system to be updated with the PTF is of an OS/360, release 19 level or later.

If both of these conditions are true, rerun the job using the correct Stage 1 output tape. Make sure that MSGLEVEL = (1,1) is specified on the JOB statement.
Problem Determination: Table I, items 13, 17a, 29.

A/HMA005I INVALID PARAMETER SPECIFIED ON EXEC STATEMENT

Explanation: An invalid parameter was specified in the PARM field of the EXEC statement.
System Action: A/HMAPTFLE terminates (return code--16).
Programmer Response: Probable user error. Check for an error in the PARM field of the EXEC statement. Correct any error and rerun the job with MSGLEVEL = (1,1) specified in the JOB statement.
Problem Determination: Table I, items 13, 15, 29.

A/HMA006I LOAD MODULE mod NOT UPDATED WITH PTF - nn

Explanation: A/HMAPTFLE was unable to update load module mod with the program temporary fix (PTF). If nn = 01, the directory entry for load module mod in the data set described by the SYSLMOD DD statement could not be located. If nn = 02, the PTF was not successfully link-edited into the module.
System Action: A/HMAPTFLE does not attempt to update load module mod with the PTF. Processing continues (return code--8).
Programmer Response: Probable user error. If nn = 01, verify that the DSNAME parameter on the SYSLMOD DD statement identifies the data set that contains load module mod, and that the STAGE 1 output tape from SYSGEN corresponds to the system that is currently running. Correct any errors and rerun the job with MSGLEVEL = (1,1) specified in the JOB statement.
Problem Determination: Table I, items 13, 17a, 29. If nn = 02, respond as indicated to the Linkage Editor messages (beginning with IEW) that accompany this message.

A/HMA007I LOAD MODULE mod UPDATED WITH PTF - NEW SSI IS ssi

Explanation: Load module mod has been successfully updated with the program temporary fix (PTF). The system status index (SSI) for the updated load module is ssi.
System Action: A/HMAPTFLE processing continues (return code--0).
Programmer Response: None.

A/HMA008I THE PRECEDING STATEMENT IS INVALID

Explanation: While scanning input defined by the MODF DD statement, A/HMAPTFLE found a statement that was neither an IDENTIFY statement or an A/HMAPTFLE control statement. The control statement in error is printed above the message. The statement probably has one of the following errors:
- The name on the module name control statement did not begin in column one.
- The word IDENTIFY was misspelled.
- The MODF input is out of order.

System Action: A/HMAPTFLE terminates (return code--16).
Programmer Response: Probable user error. Correct the error and rerun the job.
Problem Determination: Table I, item 29. Have the MODF input and the PRINT output available.

A/HMA009I A/HMAPTFLE TERMINATED; NO BLOCKSIZE ON THE PCHF DD STATEMENT

Explanation: The BLKSIZE parameter is missing from the PCHF DD statement that describes a non-labeled tape.
System Action: A/HMAPTFLE terminates (return code--16).
Programmer Response: Probable user error. Include the blocksize of the tape's records in the BLKSIZE parameter of the PCHF DD statement, and rerun the job.
Problem Determination: Table I, items 1, 3, 15, 29.

A/HMA010I A/HMAPTFLE TERMINATED; AN IDENTIFY STATEMENT IS MISSING

Explanation: During the application function, A/HMAPTFLE did not find an IDENTIFY statement following a PTF object module; an IDENTIFY statement must follow each PTF object module.
System Action: A/HMAPTFLE terminates (return code--16).
Programmer Response: Probable user error. Insert an IDENTIFY statement after each PTF object module and rerun the job.
Problem Determination: Table I, items 1, 15, 29. Have the MODF input available.

A/HMA011I NUMBER OF IDENTIFY CARDS IN INPUT STREAM EXCEEDS 150

Explanation: The Generate function of A/HMAPTFLE is being executed. There are more than 150 IDENTIFY statements and continuations.
System Action: A/HMAPTFLE terminates (return code--16).
Programmer Response: Probable user error. Process the input with more than one step.
Problem Determination: Table I, items 1, 15, 29. Have the MODF input available.

A/HMA012I OVERLAY STRUCTURE FOR MODULE mod EXCEEDS LIMIT

Explanation: The number of statements in the Stage 1 output required to define an overlay for module mod exceeds 185.
System Action: A/HMAPTFLE terminates (return code--16).
Programmer Response: Probable user error. Do not use the Stage 1 output again with A/HMAPTFLE unless the step defining the module mod has been removed.
Problem Determination: Table I, items 17, 29.

A/HMA013I THE FOLLOWING IS IDENTIFY INFORMATION FOR MODULE mod

Explanation: The IDENTIFY information to be included in the CSECT IDENTIFY records for module mod is listed following this message.

System Action: A/HMAPTFLE processing continues (return code--0).
Programmer Response: None.

A/HMA014I INSUFFICIENT VIRTUAL STORAGE FOR PROCESSING, A/HMAPTFLE TERMINATED

Explanation: A/HMAPTFLE was unable to continue processing because the virtual storage required for necessary tables and buffers was not available in the A/HMAPTFLE partition.
System Action: A/HMAPTFLE processing terminates (return code--16).
Programmer Response: Increase the partition size available to A/HMAPTFLE as recommended in the publication *OS/VS: Service Aids*, GC38-0633).
Problem Determination: Table I, items 15, 29. Have the MODF input available.

A/HMA015I MODULE mod FOUND MATCH ON ASSEMBLY STEP ONLY

Explanation: While executing the generate function for a module (mod) assembled during system generation, A/HMAPTFLE found the module in the Stage 1 assembly step but not in the Stage 1 linkedit step (which should follow the assembly).
System Action: A/HMAPTFLE will continue to process other PTFLE control cards and list the JCL for those module names that have a match in the SYSGEN stage 1 output (return code--4).
Programmer Response: Probable user error. It is possible that the SYSGEN Stage 1 output data set did not contain the link edit step, or the link edit step preceded the assembly step. If the link edit step was properly included in the SYSGEN, rerun the A/HMAPTFLE job.
Problem Determination: Table I, items 1, 17a, 29. Have the MODF input available.

AMA016I AMAPTFLE TERMINATED, PARMLIB DD STATEMENT IS MISSING

Explanation: AMAPTFLE did not find a DD statement for SYS1.PARMLIB when the nucleus was being updated during execution of the application function. The DD statement is necessary to insure that swap space for DSS is available in the nucleus.
System Action: AMAPTFLE terminates with a return code of 16.
Programmer Response: Probable user error. Ensure that a //PARMLIB DD statement was included in the PTFLE JCL and that it was properly specified; run the job again.
Problem Determination: Table I, items 3, 13, 29.

A/HMASPZAP Messages

A/HMA100I A/HMASPZAP PROCESSING COMPLETED

Explanation: This message occurs when A/HMASPZAP terminates normally. It should be noted, however, that normal termination can occur despite prior failure in the processing of control statements.
System Action: The job step terminates.
Programmer Response: Check the SYSPRINT output to ensure that all control statement operations completed successfully.

A/HMA101I SYSLIB I/O ERROR ddd, opr, err, access method

Explanation: An I/O error occurred when the data set defined in the SYSLIB DD statement was being accessed. The device address, the operation in process, the type of error, and the access method in use are provided in the error message.
System Action: The job step terminates.
Programmer Response: If VERIFY and REP control statements were part of the input stream for A/HMASPZAP, bypass either the record or control section being inspected and/or modified, and carefully check the printed output to ensure that any modifications were performed correctly. If all the modifications requested have not been performed, rerun A/HMASPZAP to make the necessary modifications.
Problem Determination: Table I, items 2, 13, 29.

A/HMA102I SYSLIB DD SPECIFICATION ERROR

Explanation: Either a SYSLIB DD statement was not included in the JCL, the data set defined in the SYSLIB DD statement does not contain the member name or physical record defined in a control statement, the NAME statement identifies a member of a partitioned data set that is not a load module created by the linkage editor, or the APF access code was zero when opening the VTOC for update.
System Action: Subsequent VERIFY, REP, and SETSSI statements are ignored until a successful NAME or CCHHR operation is performed.
Programmer Response: Probable user error. Make sure that a SYSLIB DD statement was included in the JCL. If so, correct the member name or address in the invalid control statement or correct the DSNAME in the SYSLIB DD statement, and rerun the job. If the CONSOLE option is being utilized, the job need not be rerun; the corrected statement can be reentered in response to message A/HMA116A. If the VTOC is being opened for update, make sure that A/HMASPZAP resides in SYS1.LINKLIB or SYS1.LPALIB with an access code of 1.
Problem Determination: Table I, items 2, 13, 29.

A/HMA103I CSECT ABSENT - ALL CSECTS FOLLOW

Explanation: A control section name defined in a control statement cannot be found in the specified member.
System Action: All control sections of the load module are dumped. Subsequent VERIFY or REP statements are ignored until a NAME or CCHHR statement is read.
Programmer Response: Probable user error. Correct the control section parameter in the invalid control statement, and rerun the job. If the CONSOLE option is being utilized, the job need not be rerun; the corrected statement can be reentered in response to message A/HMA116A.
Problem Determination: Table I, items 2, 13, 29.

A/HMA104I VERIFY REJECT - SET NO GO SWITCH

Explanation: The data contained in the VERIFY statement did not agree with the data at the specified location.
System Action: A dump of the text portion of the control section or the entire data record is printed in SYSPRINT listing. Processing continues, but all REP and SETSSI statements that follow the rejected VERIFY statement are ignored until another NAME or CCHHR statement is encountered. However, any VERIFY statements that are detected will be executed.
Programmer Response: Probable user error. Check the dump output and correct either the data or offset parameter (whichever was in error in the VERIFY statement), and rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA105I INVALID CARD OR NO GO SWITCH SET

Explanation: This message indicates that the requested operation cannot be performed. Either:
1. the operation name is not valid.
2. an error occurred on a previous operation preventing the current operation.

System Action: If an error occurred processing a NAME or CCHHR statement in an earlier operation, no VERIFY or REP operations will be performed until a NAME, CCHHR, DUMP, DUMPT, ABSDUMP, or ABSDUMPT statement is processed successfully. If the error occurred in a previous VERIFY or REP statement, only REP statements will be bypassed until a NAME or CCHHR statement is performed successfully.
Programmer Response: Probable user error. Correct the control statement in error, then rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA106I PATCH OVERLAPS - CHECK DUMP

Explanation: One of the following conditions occurred while a VERIFY or REP operation was being performed:
For a data record - the offset specified in the control statement is beyond the end of the record containing the data to be inspected or modified. For example, OFFSET > (KEYLEN + record length).
For a control section - the offset value plus the number of bytes of data specified in the control statement denotes a location that is beyond the limits of the control section. For example: (offset value + number of bytes of data) > displacement of last byte of control section.
System Action: A/HMASPZAP dumps the data in the control section or data record being modified or inspected, and continues processing subsequent control statements. However, any REP statements pertaining to the same NAME or CCHHR statement will be ignored.
Programmer Response: Probable user error. If a REP operation was being performed on a control section when the error occurred, check the offset and data parameters. If the offset is within the limits of the control section, but the number of bytes specified exceeds the end of the control section, the portion of data that fell within the control section will have been modified before the error was detected. Restore the data to its original form, correct the number of bytes specified in the REP statement, and perform the REP operation again. If the offset in the REP statement exceeded the limits of the control section, then no data will have been modified. In this case, correct the offset specified in the REP statement and perform the REP operation again. If a VERIFY operation was being performed on a control section or data record, or if a REP operation was being performed on a data record at the time the error was detected, no data will have been modified. Correct the offset or number of bytes specified in the control statement (whichever was in error), and perform the operation again.
Problem Determination: Table I, items 2, 13, 29.

A/HMA107I DS AREA NOT INCLUDED IN TEXT

Explanation: A VERIFY or REP operation was attempted, and the base value specified in a BASE statement was greater than the offset value specified in a corresponding VERIFY or REP statement.
System Action: A/HMASPZAP dumps the data in the control section being modified or inspected and continues processing. Any subsequent REP statements pertaining to the same NAME statement will be ignored.
Programmer Response: Probable user error. Correct either the value in the invalid BASE statement or the invalid offset value given in the VERIFY or REP statement, then rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA108I SYSIN SPECIFICATION ERROR

Explanation: The SYSIN DD statement is not included in the execution JCL.
System Action: The job step terminates.
Programmer Response: Probable user error. Include a SYSIN DD statement in the JCL, then rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA109I ERROR - ODD NUMBER DIGITS - IGNORED

Explanation: This message occurs if the patch data, verify data or data offset specified in a VERIFY or REP control statement is not represented as an even number of hexadecimal digits.
System Action: If the error results from an invalid VERIFY statement, any REP statements that follow are ignored until a subsequent NAME, CCHHR, DUMP, DUMPT, ABSDUMP, or ABSDUMPT command is entered. If the error is detected in a REP statement, only that particular statement is ignored.
Programmer Response: Probable user error. Make sure that an even number of hexadecimal digits is specified in the offset and data parameters in the VERIFY or REP statement, and rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA110I NO DIRECTORY SSI - SETSSI IGNORED

Explanation: A SETSSI statement has been entered for a member which does not contain SSI information in its directory entry.
System Action: No SSI information is stored; processing continues with the next control statement.
Programmer Response: To create the SSI in the directory entry for the member:
- If a member of a load module library, re-link edit the load module, including a SETSSI control statement.
- If a member of a macro or symbolic library, use the IEBUPDTE utility program, specifying SSI information in the ADD, REPL, CHANGE or REPRO control statement.

Problem Determination: Table I, items 2, 13, 29.

A/HMA111I PREVIOUS ERROR - SETSSI IGNORED

Explanation: Due to an error detected in a previous operation, the SETSSI operation cannot be performed.
System Action: The SETSSI operation is not performed, and A/HMASPZAP continues processing subsequent control statements.
Programmer Response: Probable user error. Correct the previously detected error, and rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA112I MEMBER NOT FOUND - SETSSI IGNORED

Explanation: The member to which the SETSSI operation was directed could not be found in the directory of the data set specified by the SYSLIB DD statement.
System Action: A/HMASPZAP continues processing subsequent control statements.
Programmer Response: Probable user error. Correct the member name in the NAME statement associated with the SETSSI command, or correct the data set name defined in the SYSLIB DD statement, and rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA113I COMPLETED DUMP REQUIREMENTS

Explanation: This message is written to the SYSPRINT device following the successful completion of a DUMP, DUMPT, ABSDUMP or ABSDUMPT operation.
System Action: A/HMASPZAP continues processing remaining sequential control statements.
Programmer Response: None.

A/HMA114I PERMISSION TO UPDATE VTOC DENIED

Explanation: When A/HMASPZAP requested permission to update the VTOC, the operator replied 'N'.
System Action: No modification to the VTOC will be performed. Processing continues with the next control statement, but any subsequent VERIFY or REP operations will be ignored.
Programmer Response: If you intend to modify the VTOC, instruct the operator to reply 'Y' when A/HMASPZAP requests permission to do so. (See message A/HMA117D.)

A/HMA115I SYSIN I/O ERROR ddd,opr,err, access method

Explanation: An uncorrectable I/O error occurred when A/HMASPZAP was attempting to read a control statement from the SYSIN data set. The device address, the operation in process, the type of error, and the access method in use are provided in the error message.
System Action: Processing terminates immediately. Control statements read form the SYSIN date set before the error was encountered will have been processed.
Programmer Response: Probable user error. If the error condition is a wrong length record, check the blocksize specified for the SYSIN data set to be sure that it is equal to the actual size of the records in the SYSIN data set. For other error conditions, check the SYSIN DD statement for correct specifications.
Problem Determination: Table I, items 2, 13, 29.

A/HMA116A ENTER A/HMASPZAP CONTROL STATEMENT OR END

Explanation: When the console option is being used, this message is issued to the console each time input is required. If any errors occur in the control statements entered, the error message is printed on both SYSPRINT and the console. However, information messages and dumps are printed only on SYSPRINT.
System Action: Processing continues.
Operator Response: If the programmer wishes to continue processing, enter a valid control statement; if the programmer wishes to terminate the job, enter REPLY xx,'END'.

A/HMA117D REPLY Y OR N TO UPDATE VTOC ser ddd xxxxxxxx

Explanation: A/HMASPZAP is being executed by xxxxxxxx for the purpose of modifying or inspecting the VTOC on volume ser, device ddd. As a precautionary measure, the program requests permission for this operation.
System Action: The program stops processing until the operator enters a response.
Operator Response: If the programmer submitting this job is not authorized to perform such an operation, enter REPLY xx'N'. As a result of this negative response, A/HMASPZAP will issue message A/HMA114I and all subsequent VERIFY and REP statements will be ignored. The response REPLY xx,'Y' will, however, allow A/HMASPZAP to inspect and modify the VTOC.

A/HMA118I SYSPRINT DD NOT IN INPUT

Explanation: A SYSPRINT DD statement was not included in the A/HMASPZAP JCL statements.
System Action: A/HMASPZAP terminates immediately.
Programmer Response: Probable user error. Include a SYSPRINT DD statement in the A/HMASPZAP JCL, then rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMA119I NO IDR FOR MODULE mod

Explanation: A/HMASPZAP found that the load module (mod) does not include CSECT identification records (IDRs); it has not been processed by a linkage editor containing IDR support.
System Action: A/HMASPZAP continues with normal processing.
Programmer Response: If IDR maintenance data in the load module is desired, reprocess the module with the linkage editor that has IDR support, then rerun the A/HMASPZAP job.

A/HMA120I FULL IDR FOR MODULE mod

Explanation: A REP operation was to be performed on the module (mod), but A/HMASPZAP found that no space is available in the A/HMASPZAP IDR for maintenance information.
System Action: Any REP operation for the module (mod) will not be performed.
Programmer Response: The indicated module must be reprocessed by the linkage editor so that the module will contain an additional A/HMASPZAP IDR, then rerun the A/HMASPZAP job.

A/HMA121I CCHHR UPDATE BY jjj ON ser, cchhr, dsn

Explanation: A/HMASPZAP has modified a data set on a direct access device by use of the CCHHR and REP statements. This message is automatically given as security audit information. Variables in the message are as follows:

jjj
The name of the job which performed the CCHHR update.

ser
The volume serial number of the direct access device containing the modified data set.

cchhr
The device record address of the record that was modified.

dsn
The name of the modified data set.

If A/HMASPZAP input is from the system console and both CCHHR and REP statements have been processed, then this message will appear immediately after the next CCHHR, NAME, DUMP, AESDUMP, END, or invalid statement entered.
System Action: Normal processing continues.
Operator Response: Save the information as recommended by your installation.

A/HMA122I OLD DATA WAS hhh

Explanation: A REP or SETSSI operation was performed. In the message text, hhh represents the data or system status index (SSI), in hex, prior to the operation.
System Action: A/HMASPZAP will process the next control statement.
Programmer Response: If a VERIFY control statement was not used prior to the REP operation, ensure that this is the data to be replaced. Should it become necessary to restore the data or SSI to its former value, this message indicates that value.

A/HMA123I SYSPRINT I/O ERROR ddd, opr, err, access method

Explanation: An I/O error occurred while A/HMASPZAP was writing in the data set defined by the SYSPRINT DD statement. The device address, the operation, the error type, and the access method are provided in the message text.
System Action: The job step terminates.
Programmer Response: If the REP operation was successful, rerun the job step after making sure that the associated REP and VERIFY control statements have been removed.
Problem Determination: Table I, items 2, 13, 29.

A/HMA124I INVALID SYSLIB DCB BLOCKSIZE

Explanation: After an OPEN, the SYSLIB DCB contained zero or a value less than the size of the block just read, in the DCBBLKSZ field.
System Action: A/HMASPZAP terminates.
Programmer Response: Probable user error. Ensure that the SYSLIB DSCB contains the correct blocksize, or specify the blocksize in the DCB parameter of the SYSLIB DD statement.
Problem Determination: Table I, items 2, 4, 25ab, 26b, 29.

A/HMBLIST Messages

A/HMB101I ESD CONTAINS INVALID DATA

Explanation: The A/HMBLIST program encountered either an invalid ESD type or an incorrect ESDID.
System Action: If the LISTOBJ function of A/HMBLIST is being used, the invalid control card is printed and processing continues. Otherwise, processing terminates. (Return code--8.)
Programmer Response: Recompile the modules, and rerun the job.
Problem Determination: Table I, items 1, 13, 29. If the problem occurred during execution of LISTOBJ, execute the LISTIDR function of A/HMBLIST to determine which compiler processed the module. If the problem occurred during execution of LISTLOAD, execute the LISTIDR function of A/HMBLIST to determine which linkage editor produced the load module.

A/HMB102I INVALID [LOAD/OBJECT] RECORD

Explanation: A/HMBLIST detected an undefined record type in the load/object records. For object records, byte positions 2-4 do not contain any of the following types: ESD, SYM, TXT, RLD, or END. For load module records, the hexadecimal code in the first byte of the record is invalid or undefined.
System Action: If the record in question is from an object module, it will be printed and execution will continue. If the record in question is from a load module, processing will terminate for the current control statement and resume with the next. (Return code--8.)
Programmer Response: List the load module using the IEBPTPCH data utility specifying PRINT TOTCONV = XE to determine the nature of the faulty record. If it has been incorrectly modified, restore it to its correct format.
Problem Determination: Table I, items 1, 2, 13, 29. Execute the A/HMBLIST service aid program to obtain IDR listings for the module and for all programs which may have modified it.

A/HMB103I RLD POINTER INVALID

Explanation: The A/HMBLIST program encountered an incorrect R or P pointer in the relocation dictionary (RLD).
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Re-link edit the program and rerun the job.
Problem Determination: Table I, items 1, 2, 13, 29. Execute the LISTOBJ function of A/HMBLIST to determine which linkage editor or language translator produced the bad R or P pointer. Execute LISTIDR for IDR data, showing if A/HMASPZAP has been executed for the module, when and what translators were used, and other user supplied data.

A/HMB104I TABLE OVERFLOW, ENLARGE REGION/PARTITION SIZE AND RERUN

Explanation: The A/HMBLIST table capacities were exceeded because the partition size was insufficient.
System Action: The operation is terminated; processing continues with the next control statement. (Return code--8.)
Programmer Response: Enlarge the partition size, and rerun the job.
Problem Determination: Table I, items 1, 2, 13, 29. Execute the IEBPTPCH utility program specifying PRINT TOTCONV = XE to list the module being processed by A/HMBLIST.

A/HMB105I ddn DOES NOT DEFINE LOAD MODULE LIBRARY

Explanation: The name specified by the DDN parameter on the A/HMBLIST control statement or by the default ddname on the SYSLIB DD statement is not the name of a load module library.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Make sure that the library referenced by the A/HMBLIST control statement or by the SYSLIB DD statement contains load modules, or change the control statements indicating the proper library type. Rerun the job.

A/HMB106I MODULE IS NOT EDITABLE, NO XREF PROVIDED

Explanation: When the associated module was link edited, the not editable attribute of the linkage editor was specified. The module, therefore, does not contain the CESD, and no XREF can be provided.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--4.)
Programmer Response: Recreate the load module from its associated object module. Do not specify the not editable attribute. Rerun the job.
Problem Determination: Table I, items 1, 2, 13, 29.

A/HMB107I I/O ERROR ON READ

Explanation: An uncorrectable input/output error was encountered while A/HMBLIST was reading input.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Be sure the data set is defined correctly in the control statement.
Problem Determination: Table I, items 1, 2, 13, 29.

A/HMB108I MEMBER NOT FOUND

Explanation: The member name or alias name specified by the MEMBER parameter on the A/HMBLIST control statement was not found in the indicated library.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: List the directory of the referenced library using the LISTPDS function of the IEHLIST utility. Rerun the job.
Problem Determination: Table I, items 1, 2, 13, 29.

A/HMB109I I/O ERROR READING PDS DIRECTORY

Explanation: An uncorrectable I/O error occurred while

A/HMBLIST was reading the directory of a partitioned data set.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: None.
Problem Determination: Table I, items 1, 2, 13, 25ac, 29.

A/HMB110I DDNAME DOES NOT DEFINE OBJECT MODULE DATA SET

Explanation: The A/HMBLIST program attempted to process as an object module, a data set or member defined by the DDN parameter or by the operands on the LISTOBJ control statement. However, the data set or member is not an object module.
System Action: The operation terminates; processing continues with the next operation. (Return code--8.)
Programmer Response: Make sure that the module to be processed is an object module. Rerun the job.
Problem Determination: Table I, items 1, 2, 13, 25ac, 29.

A/HMB111I ddn CANNOT BE OPENED

Explanation: The specified data set cannot be opened. The DD statement defining that data set may be missing.
System Action: Processing terminates if ddn is SYSIN or SYSOUT; otherwise, processing continues with the next control statement. (Return code--12.)
Programmer Response: Make sure that the job control language for the step includes a DD statement that properly defines the data set. Execute the LISTVTOC function of the IEHLIST utility to obtain a list of the volume table of contents of the volume containing the data set.

A/HMB112I LOAD MODULE DOES NOT CONTAIN CSECT IDENTIFICATION

Explanation: The load module specified on the LISTIDR control section does not contain any CSECT identification records.
System Action: No IDR listings are produced. Processing continues with the next operation. (Return code--4.)
Programmer Response: Re-link edit the load module using a linkage editor which contains IDR support, and rerun the job.

A/HMB113I IDR INFORMATION IS INCOMPLETE

Explanation: The last CSECT identification record found in this load module is not marked with an "end of IDR data" flag.
System Action: Processing continues. (Return code--8.)
Programmer Response: Make sure that no IDR data has been lost. Re-link edit the module using a linkage editor which contains IDR support, and rerun the job.

A/HMB114I THE CSECT NAME ASSOCIATED WITH AN IDR ENTRY CANNOT BE FOUND

Explanation: The ESDID on an IDR data entry did not match any ID in the CESD of the load module being processed.
System Action: Processing of this operation terminates. Processing continues with the next operation. (Return code--8.)
Programmer Response: Make sure that the IDR data for this load module has not been altered. If it has been altered, correct it and rerun the job.
Problem Determination: Table I, items 1, 2, 13, 29.

A/HMB115I BUFFER SPACE NOT AVAILABLE - INCREASE REGION OR PARTITION SIZE

Explanation: The A/HMBLIST buffer space was exceeded because the partition size was insufficient.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Enlarge the partition size and rerun the job.

A/HMB120I EXPECTED CONTINUATION CARD NOT FOUND

Explanation: The A/HMBLIST control statement indicated continuation (a comma was found after the last operand); however, it is not followed with proper continuation.
System Action: Processing terminates. (Return code--12.)
Programmer Response: Check all A/HMBLIST control cards for valid continuation cards. Rerun the job.

A/HMB121I INVALID CONTROL STATEMENT

Explanation: An A/HMBLIST control statement is invalid because it contains an invalid operation, an embedded blank, or it begins in column 1.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Make sure the A/HMBLIST control statements are specified correctly. Then rerun the job.

A/HMB122I INVALID OPERAND NEAR CARD COLUMN INDICATED BY "$".

Explanation: An error has occurred in the A/HMBLIST control statement near the card column location indicated by the "$".
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Make sure the A/HMBLIST control statements are specified correctly. Then rerun the job.

A/HMB123I CLOSE QUOTE OR PARENTHESIS NOT FOUND

Explanation: A quotation mark or parenthesis is missing on an A/HMBLIST control statement.
System Action: Processing terminates for this operation and continues with the next control statement. (Return code--8.)
Programmer Response: Check the A/HMBLIST control statements for unbalanced quotation marks and parentheses. Resubmit the job.

A/HMB124I NUMBER OF MEMBER NAMES EXCEEDS 32 NEAR COLUMN INDICATED BY "$"

Explanation: The number of member names specified on an A/HMBLIST control statement exceeds the limit, 32. The card column where this error was detected is flagged by a "$".
System Action: The extra member names are ignored, and processing continues. (Return code--8.)
Programmer Response: Use two or more A/HMBLIST control statements to list the member names.

A/HMB125I IMPROPER OPERAND NEAR COLUMN INDICATED BY "$"

Explanation: An incorrect or invalid operand has been detected in the A/HMBLIST control statement. Its location is indicated by "$".
System Action: The operand is ignored. Processing continues. (Return code--8.)
Programmer Response: Make sure the A/HMBLIST control statements are specified correctly; then rerun the job.

A/HMB126I IMPROPER OPTION NEAR COLUMN INDICATED BY "$" LOCATION

Explanation: An option specified in the A/HMBLIST control statement is invalid; its location is indicated by "$".

System Action: The default value was assumed; processing continues. (Return code--4.)
Programmer Response: Check the validity of the options specified on the A/HMBLIST control statement. Correct the errors and rerun the job.

A/HMB127I RELOC OPERAND INVALID WHEN MAPPING NUCLEUS - OPERAND IGNORED

Explanation: The RELOC operand is not compatible with mapping of a nucleus.
System Action: Processing continues without relocation. (Return code--4.)
Programmer Response: None.

A/HMB128I NUCLEUS NOT MARKED SCTR - STANDARD XREF PROVIDED

Explanation: The nucleus is not marked SCTR.
System Action: Processing continues as if the nucleus was not intended for use as a nucleus. (Return code--4.)
Programmer Response: If the program being mapped is not intended for use as a nucleus, no programmer response is necessary. If the program is intended for use as a nucleus, the program must be reprocessed by the linkage editor using the SCTR option. Then rerun the A/HMBLIST program to obtain the correct nucleus map.

A/HMB129I IMPROPER CESD SEQUENCE IN NUCLEUS - STANDARD XREF PROVIDED

Explanation: IEAANIP0 and IEAAIH00 are not the first two CSECTs in the CESD respectively.
System Action: The nucleus is processed as if it were not a nucleus. (Return code--4.)
Programmer Response: If the program being mapped is not intended for use as a nucleus, no programmer response is necessary. If the program is intended for use as a nucleus, the program must be reprocessed by the linkage editor using the SCTR option, and specifying the following control statements as the first items in the input to the linkage editor:

```
INSERT IEAANIP0
INSERT IEAAIH00
```

Rerun the A/HMBLIST program to obtain the correct nucleus map.

A/HMB130I NUCLEUS REQUESTED FOR OUTPUT = XREF IS NOT THE NUCLEUS THAT WAS IPL'D

Explanation: The nucleus is not the nucleus that was loaded.
System Action: Processing continues. (Return code--4.)
Programmer Response: None.

A/HMD001A {PTR / TAPE} =

Explanation: Message A/HMD001A is issued when the dump program is loaded for execution. It requests the operator to enter a 3 character output device address.
System Action: The console proceed indicator is turned on, allowing the operator to enter the output device address.
Operator Response: Ready the desired output device of the type indicated in the message text. Enter one of the following responses, to assign the device address for the dump:

- Following PTR = , enter the device address of the printer on which the output is to be written.
- Following TAPE = , enter the device address of the magnetic tape unit on which the output is to be written.
- Depress the END key on the console (EOB) to select the default output device address.

A/HMD002I {CMD / LBL} ERR

Explanation: There is an error in the device address entered in response to message A/HMD001A, or the volume mounted on that device is not acceptable for A/HMDSADMP output.
System Action: A/HMDSADMP reissues message A/HMD001A so that the device address may be re-entered (entered correctly). However, if the message indicates LBL ERR and the error occurred following an attempt to satisfy an end-of-reel condition, no additional message will be issued.
In any case, A/HMDSADMP will wait until the operator has mounted the non-label (NL) tape on the output device.
Operator Response: Probable user error. Depending on the text of the message, the operator should do one of the following:
CMD ERR- reenter the correct output device address in response to message A/HMD001A.
LBL ERR- mount a non-label tape on a magnetic tape device and enter the address of that device in response to message A/HMD001A. If this message was issued after mounting a tape in response to an end-of-reel condition, mount a NL tape on the device being used for A/HMDSADMP output.
Problem Determination: Table I, items 2, 28, 29.

A/HMD003I CHAN ERR

Explanation: During execution of the dump program for real storage, an uncorrectable input/output error occurred.
System Action: A/HMDSADMP terminates, and the system enters a wait state.
Operator Response: Check the output tape and make sure that it contains a file-protect ring. If it does not, insert a ring in the back of the tape and rerun the dump program. If the I/O error appears to have been caused by the tape, mount a new tape and rerun the dump program. If the tape drive appears to be failing, execute A/HMDSADMP again, selecting an alternate tape drive. If the printer seems to be failing, select an alternate printer and rerun the A/HMDSADMP dump program. A store status operation should not be performed before an attempt to rerun A/HMDSADMP.
Note: If A/HMDSADMP is rerun, locations X'1000' through X'E000' may not reflect the original contents of real storage. These storage locations may have been altered during the initial A/HMDSADMP execution.
Problem Determination: Table I, items 13, 28, 30. Record the contents of registers 10 and 11 at the time of the message.

A/HMD004A EOR

Explanation: While writing on magnetic tape, A/HMDSADMP detected an end-of-reel condition.
System Action: The tape volume is tape-marked and unloaded. A/HMDSADMP stops processing until a non-label (NL) tape volume is mounted.
Operator Response: Mount another NL tape volume in place of the full output tape, and save the full volume.

A/HMD005I REAL DUMP DONE

Explanation: The A/HMDSADMP storage dump is complete.
System Action: If this is the low speed to tape version of the dump program, the tape volume will be unloaded, and the program will enter a wait state. If this is the low speed to printer version of the dump program, the system will enter a wait. If this is a high speed version of the dump program, message A/HMD012D will follow.
Operator Response: For the high speed dump program respond to message A/HMD012D. For the low-speed dump program, no response is required.

A/HMD006I SHORT TAPE

Explanation: The dump tape is not long enough to contain the dump program plus the first 28K bytes of storage.
System Action: Dump processing terminates, and the system enters a wait state.
Operator Response: Have the dump program on a tape which contains a full 2400 feet, or use a tape other than the IPL tape for output.

A/HMD011A TITLE =

Explanation: Message A/HMD011A is issued to request a dump title.
System Action: The console proceed indicator is turned on, allowing the operator to enter a dump title.
Operator Response: Enter a dump title of up to 100 characters, or press the END key (EOB) on the system console to indicate no dump title.

A/HMD012D ENTER Y OR N FOR PAGEDUMP =

Explanation: The dump program issues A/HMD012D to determine if the operator wants to dump page data sets or to terminate the dump.
System Action: The console proceed indicator is turned on, allowing the operator to respond. If Y is entered, control is given to the page dump routine. If N is entered, the dump program terminates, rewinding and unloading the tape, and the system enters a wait state.
Operator Response: Enter Y to obtain the page data set dumping function. Enter N to terminate the dump function.

A/HMD013I ERR LOADING PRECURSOR

Explanation: A permanent I/O error occurred while attempting to load the precursor routine which obtains the page dumping program.
System Action: The dump program terminates and enters a wait state.
Operator Response: None. Probable hardware error.
Problem Determination: Table I, item 30.

A/HMD014A INTV REQ {ddd / IPL DEV}

Explanation: The device indicated in the message text is not ready.
System Action: The dump program waits for the device to be made ready.
Operator Response: Ready the indicated unit. If the unit cannot be readied, rerun the A/HMDSADMP program and, if possible, specify another address of the same device type.
If the unit is a 2305 direct access device, make sure that the intervention required condition has been satisfied by readying the device and then pressing the STOP key and then the START key on the CPU panel.
If the message reads INTV REQ IPL DEV, ready the device from which the dump program was loaded.
Note: If A/HMDSADMP is rerun, locations X'1000' through X'E000' may not reflect the original contents of real storage. These storage locations may have been altered during the initial A/HMDSADMP execution.
Do not attempt a store status operation before an attempt to rerun A/HMDSADMP.

A/HMD019I FILE PROTECTED

Explanation: The tape mounted for the end-of-reel procedure does not have a file-protect ring.
System Action: A/HMDSADMP unloads the tape and issues message A/HMD020A.
Operator Response: Probable user error. Make sure that the tape mounted for the end-of-reel procedure has a file protect ring.

A/HMD020A MOUNT NL TAPE ON ddd

Explanation: A/HMDSADMP is requesting a non-label (NL) dump tape on the magnetic tape unit indicated by ddd.
System Action: A/HMDSADMP waits for the operator to mount the tape and ready the device.
Operator Response: Mount the tape on the magnetic tape unit address, ddd.

A/HMD021A PAGE DEVICE ADDRESS =

Explanation: The message asks for the address of the direct access device which contains the SYS1.PAGE data set.
System Action: The console proceed light is turned on, allowing the operator to enter the address.
Operator Response: Ready the direct access device from which the SYS1.PAGE data set will be dumped, and reply ddd, where ddd is the address of the readied device.

A/HMD022I {SYS1.PAGEDUMP / SYS1.PAGE} DATA SET NOT FOUND ON DEVICE ddd

Explanation: The data set, SYS1.PAGEDUMP or SYS1.PAGE, indicated in the message could not be found on the direct access device indicated by ddd.
System Action: If the SYS1.PAGEDUMP data set could not be found, the dump program will terminate without dumping any records from the SYS1.PAGE data set.
If the SYS1.PAGE data set could not be found, the page dump program, A/HMDSAPGE, issues message A/HMD024D asking the operator if the dump program should terminate or continue dumping SYS1.PAGE data sets.
Operator Response: Probable user error. Make sure that the SYS1.PAGEDUMP data set is on the direct access device containing the dump program, or make sure that the SYS1.PAGE data set is on the device address indicated in the reply to message A/HMD021A.
Problem Determination: Table I, items 2, 25a, 29. If the SYS1.PAGEDUMP data set could not be found, save the output from the initialization job, including the JCL listings, which put the stand-alone dump program on the device.

A/HMD023I PAGE DUMP COMPLETE FOR DEVICE ddd

Explanation: The SYS1.PAGE data set has been successfully dumped to tape from the direct access device, ddd.
System Action: Message A/HMD024D will follow asking the operator whether the dump program should terminate or continue dumping SYS1.PAGE data sets.
Operator Response: Respond to message A/HMD024D.

A/HMD024D ENTER Y OR N - PAGE DUMP CONTINUE =

Explanation: This message asks the operator to indicate whether the dump program should terminate or continue dumping SYS1.PAGE data sets.
System Action: The console proceed indicator is turned on, allowing the operator to enter Y or N, indicating whether more SYS1.PAGE data sets are to be dumped or the dump program is to be terminated. If the operator requests the dump be terminated, the tape will be tape-marked, rewound, and unloaded, and the system will enter a wait state.
Operator Response: Enter a one character reply:
Y indicates more SYS1.PAGE data sets are to be dumped. Message A/HMD021A will follow.
N requests termination of page dump processing.

A/HMD025I REPLY NOT VALID

Explanation: This message is issued when the reply to either message A/HMD021A or A/HMD024D is invalid.
System Action: Message A/HMD021A or A/HMD024D is reissued so the correct reply may be entered.
Operator Response: Probable user error. Reenter the 3-character device address in response to message A/HMD021A, or reenter Y or N in response to message A/HMD024D.

A/HMD026I ERR LOADING PAGEDUMP CC = cc

Explanation: An error occurred obtaining the A/HMDSAPGE program from the SYS1.PAGEDUMP data set.
System Action: The dump program will terminate without dumping any records from the SYS1.PAGE data set to tape. The output tape will be tape-marked, rewound, and unloaded, and the system will enter a wait state.
Operator Response: The code, cc, indicates the cause of the error:

Code	Cause
0C	I/O error reading volume label
10	I/O error reading a non-IBM volume label
14	I/O error reading a format 4 DSCB
18	I/O error searching for SYS1.PAGEDUMP

Problem Determination: Table I, items 2, 29. Record the device type and save the A/HMDSADMP console output.

A/HMD027I CONSOLE I/O READ ERROR

Explanation: An input/output error occurred on data being entered at the console.
System Action: The original message is repeated once. If the failure recurs, A/HMDSADMP processing terminates and the system enters a wait state.
Operator Response: None. Probable hardware error.

A/HMD031I PHYSICAL ADDR USED = ddd

Explanation: The address specified in the response to message A/HMD021A is not the physical address for the desired 2305 direct access device. The address in the message text (ddd) is the physical address for that device.
System Action: A/HMDSADMP will use the physical address instead of the address specified in the response to message A/HMD021A.
Operator Response: Notify the programmer that the physical address of the 2305 was used. This will be important if A/HMDPRDMP is used to process the page data set from this device.

A/HMD032I INVALID DEVICE ADDRESS ddd

Explanation: The address, ddd, specified in response to message A/HMD021A is not supported by A/HMDSAPGE, the page dump program.
System Action: Message A/HMD024D is issued to ask the operator if the page dump program should terminate or continue dumping SYS1.PAGE data sets.
Operator Response: Probable user error. Make sure that the device address specified in response to message A/HMD021A is supported by this version of A/HMDSADMP, and make sure that the volume has been initialized using the most current version of IEHDASDR or IBCDASDI.
Problem Determination: Table I, items 2, 25b, 29. Record the device type (eg. 2314, 2305-1, etc.) of the address specified in response to message A/HMD021A.

A/HMD033I I/O ERROR ON ddd CC = cc CMD = op STATUS = stat
[A/HMD033I SENSE = sens]

Explanation: A permanent I/O error occurred while the A/HMDSADMP program was trying to read from the SYS1.PAGE data set, or trying to write on the output tape. The address of the device on which the error occurred is indicated by ddd.
The condition code, cc, indicates one of the following:
For magnetic tape device errors:

Value	*Meaning*
01	intervention required
03	nonexistent device
04	bus out check
07	overrun
0A	equipment check
0C	load point
0D	command reject
0E	data converter check
0F	channel data check
10	chaining check
11	incorrect length, program check, or channel protection check
13	not capable
14	interface or channel control check
15	data check - read
16	data check - write
17	data check - tape mark
18	data check - erase gap
19	data check - unknown
1E	PE ID burst check
1F	PE ID write
20	PE ID write tape mark

For direct access device errors:

Value	*Meaning*
32	equipment check
33	no record found
34	seek check
35	intervention required
36	bus out check
37	data check
38	overrun
39	missing address marker
3A	command reject
3B	track condition; not defective or alternate track
3C	end of cylinder, file protect
3D	incorrect length
3E	unit exception, program check, chaining check
3F	miscellaneous sense errors
40	channel data, channel control, or interface control check
41	buffer log full

For errors trying to find SYS1.PAGE data set:

Value	*Meaning*
80	I/O error reading volume label
81	I/O error reading VTOC
82	I/O error reading format 4 DSCB
83	I/O error searching for SYS1.PAGE data set
84	I/O error unknown

For errors during Error Recovery Procedure:

Value	*Meaning*
90	I/O error during execution of ERP CCWs

The command operation code (op) is from the last CCW executed.
The status bits (stat), and if applicable, the sense bytes (sens) are also shown.

System Action: If the error was a permanent data check on direct access, the page in error will be skipped and message A/HMD034I will be issued. Otherwise, the dumping of records from that data set will cease. Then message A/HMD024D will be issued to ask the operator if the dump program should terminate or continue dumping SYS1.PAGE data sets.
Operator Response: Probable hardware error. If the message A/HMD024D is issued, and if more SYS1.PAGE data sets are to be dumped, reply "Y". If the dump should terminate, reply "N". Proceed with caution in unconditionally accepting partial output from the SYS1.PAGE data set.
Problem Determination: Table I, items 2, 28, 30.

A/HMD034I PAGE READ ERROR AT ccccchhhhrr

Explanation: A permanent data check occurred at cylinder cccc, head hhhh, record rr of the direct access input device.
System Action: The page at location ccccchhhhrr is skipped; processing continues.
Operator Response: None.

A/HMDSADMP Initialization Messages

A/HMD035I FILE ddname CANNOT BE OPENED

Explanation: The A/HMDSALDR program could not open the data set specified on the DD statement indicated by ddname.
System Action: A/HMDSALDR cannot prepare the A/HMDSADMP program for initialization of the IPL volume (return code--4).
Programmer Response: Rerun the job.
Problem Determination: Save the initialization input and output for the A/HMDSADMP macro and the output from the execution of the A/HMDSADM2 macro and A/HMDSALDR steps.

A/HMD036I ERROR - INVALID OBJECT INPUT FROM SYSUT1 FILE
{CSECT xxxxxxxx NOT FOUND / TXT RECORDS OUT OF SEQUENCE / NO END STATEMENT FOLLOWING TXT / UNIDENTIFIABLE RECORD ENCOUNTERED}

Explanation: An uncorrectable error occurred initializing the SYSUT1 data set.

- *CSECT xxxxxxxx NOT FOUND:) CSECT xxxxxxxx could not be found. The CSECTs A/HMDSAPRO and A/HMDSAPGE should reside in SYS1.LINKLIB.*
- *TXT RECORDS OUT OF SEQUENCE:) The input object module has a misplaced text record.*
- *NO END STATEMENT FOLLOWING TXT:) The input object module does not have an END statement.*
- *UNIDENTIFIABLE RECORD ENCOUNTERED:* The input object module has an extraneous input record.

System Action: The A/HMDSALDR program will not prepare the A/HMDSADMP program for initialization of the IPL volume (return code--4).
Programmer Response: Rerun the job.
Problem Determination: Table I, items 9a, 29. Save the A/HMDSADMP macro input and output. Save the execution step listings.

A/HMD037I ERROR - SYSUT2 FILE DOES NOT CONTAIN MODULE mod

Explanation: The input received from SYSUT2 was not in object or load module format.
System Action: A/HMDSALDR will not prepare the A/HMDSADMP program for initialization of the IPL volume (return code--4).
Programmer Response: Make sure that the module in question is an object module or load module.
Problem Determination: Table I, items 3, 9a, 13, 29.

A/HMD038I INVALID PARM = PARAMETER ON EXEC STATEMENT

Explanation: The parameter input to A/HMDSADMP is in error. The parameter input must be either:

TYPE2 = HI,IPL2 = (T or D)
or
TYPE2 = LO,IPL2 = D

System Action: A/HMDSALDR will not prepare the A/HMDSADMP program for initialization of the IPL volume (return code--4).
Programmer Response: Correct the parameter input, and rerun the job.
Problem Determination: Table I, items 29. Save the A/HMDSADMP macro input and output.

A/HMD039I ERROR - MODULE mod DOES NOT CONTAIN CSECT csect

Explanation: Module mod does not have a section definition for CSECT csect.
System Action: A/HMDSADMP initialization terminates (return code--4).
Programmer Response: Rerun the job.
Problem Determination: Save the Stage I A/HMDSADMP macro input and output. Execute the A/HMBLIST service aid program to list the module with a cross reference table.

A/HMD040I FIND I/O ERROR SEARCHING SYSUT2 FILE FOR MODULE mod

Explanation: An I/O error occurred searching for the indicated module.
System Action: A/HMDSADMP terminates (return code--4).
Programmer Response: Rerun the job.
Problem Determination: Table I, items 2, 29. Save the A/HMDSADMP macro output.

A/HMD041I UNCORRECTABLE I/O ERROR OCCURRED

Explanation: An uncorrectable input/output error occurred during A/HMDSADMP initialization.
System Action: A/HMDSADMP initialization terminates (return code--4).
Programmer Response: Rerun the job.
Problem Determination: Table I, items 2, 29. Save the A/HMDSADM2 macro output.

A/HMD042I GETMAIN FAILED - INSUFFICIENT STORAGE

Explanation: There is not enough storage to initialize A/HMDSADMP.
System Action: A/HMDSADMP terminates (return code--4).
Operator Response: Rerun the A/HMDSADMP job in a larger region or partition.

A/HMD043I A/HMDSALDR PROCESSING SUCCESSFULLY COMPLETED

Explanation: If the IPL2 = T option was specified in the A/HMDSALDR step, the IPL tape has been successfully initialized with the A/HMDSADMP program. If IPL2 = D was specified, loader-maker input for IEHDASDR has been successfully prepared.
System Action: A condition code of zero is returned to the system.
Operator Response: None.

A/HMDPRDMP Messages

A/HMD150I FILE {ddn / PRINTER / SYSUT1} CANNOT BE OPENED

Explanation: The required PRINTER, SYSUT1 or other DD statement (indicated by ddname) is missing or invalid; therefore, the corresponding data control block cannot be opened.
System Action: A/HMDPRDMP execution terminates.
Programmer Response: Probable user error. Supply the correct PRINTER, SYSUT1 DD statement or ddname. Execute the job step again, making sure that MSGLEVEL = (1,1) is specified in the JOB statement.
Problem Determination: Table I, items 2, 15, 29.

A/HMD151I INSUFFICIENT STORAGE - EXECUTION TERMINATED

Explanation: Either the partition or region size was less than the minumum 128K required for execution or else storage for buffer space was not available.
System Action: A/HMDPRDMP processing terminates.
Programmer Response: If the partition or region size was less than 128K, rerun the job in partition or region of at least 128K.
Operator Response: None.
Problem Determination: Table I, items 2, 3, 4, 29. Save a listing of the control statements for A/HMDPRDMP in the order the control statements were executed.

A/HMD153I PERMANENT I/O ERROR ON ddn - EXECUTION TERMINATED

Explanation: An I/O error has occurred on the device assigned to the data set specified in the statement indicated by ddn, and the associated DCB SYNAD routine has been entered.
System Action: A/HMDPRDMP execution terminates.
Programmer Response: Check the indicated DD statement to ensure that the proper device is specified, and rerun the job.
Problem Determination: Table I, items 2, 13, 29.

A/HMD154I REPLY TITLE, 'SAME' OR 'END'

Explanation: This message appears on the console prior to the execution of each user control statement requesting that the operator specify a dump title to be applied to the dump listing. This message is issued if a 'T' has been included in the PARM = option of the EXEC statement.
System Action: A/HMDPRDMP waits pending the operator's reply.
Operator Response: Enter one of the following responses:

- If a new title is to be applied to each page of the A/HMDPRDMP output listing, enter REPLY id, 'ccccc...cc', ccccc...cc being any character string of up to 64 characters.
- If the the title of the preceding dump is to be used, enter REPLY id,'SAME'.
- If execution of the A/HMDPRDMP program is to terminate, enter REPLY id,'END'.

A/HMD155D REPLY WITH GO, DESIRED FUNCTION, OR END

Explanation: All user control statements in the SYSIN data set have been processed without encountering an end control statement. This message, issued to the console, requests additional control statements.
If the SYSIN data set was omitted, this message is issued as soon as execution of the A/HMDPRDMP program begins. The program enters conversational control mode in which control statements are entered from the console. This message is reissued after the processing for each set of specified functions has completed.
System Action: The A/HMDPRDMP program enters a wait state until the operator's response has been entered.
Operator Response: Any sequence of user control statements may be enterd. If GO is entered, the set of user control statements specified by a preceding ONGO statement will be used. If no ONGO has been specified, the ONGO default values will be used. A reply of END will cause A/HMDPRDMP program execution to terminate.

A/HMD156I REPLY WITH STOP TO TERMINATE CURRENT FUNCTION

Explanation: This message allows the operator to stop the execution of a function control statement at any time.
This message is issued to the console only if 'S' is included in the PARM = option list of the EXEC statement.
System Action: A/HMDPRDMP execution continues. This message remains outstanding until a STOP command is entered or until the program terminates.
Operator Response: If you want to halt execution of the active function control statement, enter REPLY xx,'STOP'. This will cause the A/HMDPRDMP program to stop processing the current function control statement and either read the next control card from the SYSIN data set or issue message A/HMD155D to request more control statements from the operator. If you do not reply to this message, execution will proceed normally and at termination the outstanding reply will be deleted.

A/HMD157A MOUNT NEW DUMP TAPE

Explanation: A/HMDPRDMP has encountered a NEWDUMP or NEWTAPE control statement and has closed the current input dump data set. This message is issued to request that the new input dump volume be mounted.
System Action: If the SYSUT1 work data set is being used, the input data set is opened, OPEN mount message IEC101A is issued, and the work data set is loaded. If the SYSUT1 work data set is not being used, the dump data set is closed, message A/HMD157A is issued, and the next control statement is read. The OPEN mount message IEC101A is not issued, and the tape is not loaded, until the next control statement is read.
Operator Response: Mount the desired input dump tape. If message IEC101A is also issued, respond as indicated for that message (see *OS/VS System Messages*, GC38-1001 or GC38-1002).

A/HMD158I I/O ERROR ON DUMP

{ENTIRE TAPE WILL BE PRINTED / ONLY NUCLEUS AND SQA WILL BE PRINTED / SELECT OPTION TO RETRY}

Explanation: An I/O error occurred while A/HMDPRDMP was attempting to read a block either from the SYSUT1 data set or from a tape (if tape is being used directly without the use of the SYSUT1 data set).
System Action: A/HMDPRDMP program action is indicated by the second portion of the message, whose appearance depends on the value assigned to 'n' in the option list of the PARM = parameter of the EXEC statement. If n is 1, or if n is not coded, the entire real or virtual portion of the dump data set will be printed. All remaining control statements are syntax-checked, but none are executed until a valid NEWDUMP, NEWTAPE, SEGTAB, or CVT control statement is encountered.

The fourth and fifth submessages are issued only if A/HMDPRDMP was processing the portion of the dump listing indicated. Processing continues with the next function.
Programmer Response: None.

A/HMD159I A/HMDPRDMP PROGRAM CHECK

**{ENTIRE TAPE WILL BE PRINTED
ONLY NUCLEUS AND SQA WILL BE PRINTED
SELECT OPTION TO RETRY}**

Explanation: A program check occurred in A/HMDPRDMP when it attempted to use information contained on the input dump tape.
System Action: A/HMDPRDMP action is indicated by the second portion of the message. If one of the first three submessages was issued, the program action taken depends on the value assigned to 'n' in the option list of the PARM = parameter of the EXEC statement. If n is 1, or if n is not coded, the entire real or virtual portion of the input dump data set will be printed. The remainder of the control statement is ignored. All remaining control statements are syntax-checked, but none are executed until a valid NEWDUMP, NEWTAPE, SEGTAB, or CVT control statement is encountered.
Programmer Response: None.

A/HMD161I FORMAT ERROR

**{ENTIRE TAPE WILL BE PRINTED
ONLY NUCLEUS AND SQA WILL BE PRINTED
SELECT OPTION TO RETRY}**

Explanation: A/HMDPRDMP encountered an error extracting data from the dump tape during the initialization process.
System Action: A/HMDPRDMP action is indicated by the second portion of the message. If one of the first three submessages was issued, the program action taken depends on the value assigned to 'n' in the option list of the PARM = parameter of the EXEC statement. If n is 1, or if n is not coded, the entire real or virtual portion of the input dump data set will be printed. The remainder of the current control statement is ignored. All remaining control statements are syntax-checked, but none are executed until a valid NEWDUMP, NEWTAPE, SEGTAB, or CVT control statement is encountered.
The fourth and fifth submessages are issued only if A/HMDPRDMP was processing the portion of the dump listing indicated. Processing continues with the next function.
Programmer Response: None.

A/HMD162I JOB jjj NOT FOUND

Explanation: The indicated job was specified in a PRINT JOBNAME = jobname user control statement. The job could not be found in the storage dump.
System Action: A/HMDPRDMP execution continues with the next user control statement.
Programmer Response: None.

A/HMD163I GO FUNCTIONS TO BE PERFORMED [ongo operands]

Explanation: On execution of a GO control statement, this message lists the functions to be performed.
System Action: The indicated GO functions are performed. If the ONGO control statement has been previously issued by the user, the specified functions appear in this message. If no ONGO control statement was specified, the default functions Q, L, F, E, and P A are indicated and will be performed.
Programmer Response: None.

A/HMD164I TAPE IS PRE-FORMATTED DUMP REMAINING PARAMETERS IGNORED

Explanation: A/HMDPRDMP has determined that the input tape data set is not an A/HMDSADMP high-speed or system produced dump. The input block size is less than 134 characters.
System Action: A/HMDPRDMP prints the contents of the input tape with no formatting. The current user control statement is ignored and the next control statement is obtained.
Programmer Response: Probable user error. If user control statements are being entered from the system console, the current tape volume should be demounted by entering the NEWDUMP or NEWTAPE control statement. Otherwise A/HMDPRDMP should be rerun using the correct dump tape.
Problem Determination: Table I, items 2, 13, 29.

A/HMD165I ERROR IN PRECEDING CONTROL STATEMENT (err)

Explanation: A syntax error was detected during the scan of an A/HMDPRDMP control statement. If the control statement error cannot be diagnosed by the A/HMDPRDMP program, an error description cannot and will not be issued with the message. Otherwise, the error description on the second line identifies the error as one of the following:

- *VERB LENGTH GREATER THAN 8.*
  The verb is longer than 8 characters.
- *INVALID DELIMITER FOLLOWING VERB*
  The delimiter separating the verb and the keyword is invalid.
- *INVALID VERB*
  The verb of a control statement is invalid.
- *KEYWORD LENGTH GREATER THAN 8.*
  A keyword was found that has more than 8 characters.
- *INVALID DELIMITER FOLLOWING KEYWORD*
  A keyword is followed by an invalid delimiter.
- *INVALID KEYWORD*
  A keyword is invalid.
- *OPERAND MISSING*
  The value for a keyword parameter is not specified.
- *DELIMITER ERROR ON STORAGE OPERAND LIST*
  Parameters of the STORAGE keyword for the PRINT verb are not separated by commas.
- *LENGTH OF STORAGE ADDRESS GREATER THAN 6*
  A virtual storage address, in the STORAGE operand list, is specified with more than 6 hexadecimal digits.
- *STARTING OMITTED IN STORAGE OPERAND*
  A virtual storage address in the STORAGE keyword must appear in pairs. An odd number of addresses is specified.
- *UNBALANCED PARENTHESIS*
  Unbalanced parentheses were found in the value of a keyword operand.
- *DELIMITER ERROR IN JOBNAME OPERAND LIST*
  The job names specified by the JOBNAME keyword must be separated by commas.
- *NAME MISSING FROM JOBNAME OPERAND LIST*
  No job name is specified for the JOBNAME keyword of the PRINT verb.
- *TOO MANY JOBNAMES IN LIST.*
  More than ten job names were specified for the JOBNAME keyword of the PRINT verb.
- *JOBNAME LENGTH GREATER THAN 8*
  A job name specified in the JOBNAME operand has a length greater than 8 characters.
- *GO PARAMETER ENCOUNTERED IN ONGO OPERAND*
  The GO verb may not be specified as a verb in the ONGO list.

- *INVALID CVT ADDRESS SPECIFIED*
  The value specified for the CVT verb is invalid. This value must be specified as a 1 to 6 digit hexadecimal address.
- *INVALID SEGTAB ADDRESS SPECIFIED*
  The value specified for the SEGTAB verb is invalid. This value must be specified as a 1 to 6 digit hexadecimal address.
- *NEWDUMP KEYWORD VALUE ERROR*
  There is syntax error in the keyword parameters of the NEWDUMP control statement.
- *NO INPUT DD CARD*
  The value of the DDNAME keyword of the NEWDUMP control statement specified a DD statement which is not included with the JCL statements used to execute the A/HMDPRDMP service aid program.
- *NEWTAPE OPERATION CANNOT BE PERFORMED*
  A/HMDPRDMP could not position the input tape at the core image dump specified by the NEWDUMP or NEWTAPE control statement. The FILESEQ keyword parameter was used on the NEWDUMP control statement and the input dump data set resides on a non-label magnetic tape volume. The volume did not contain the specified number of files.
- *FILE OPERATION CANNOT BE PERFORMED ON D/A INPUT*
  The FILESEQ keyword parameter was used in the NEWDUMP control statement, but the corresponding dump data set was on a direct access device.
- *DELIMITER ERROR IN REAL OPERAND LIST*
  Parameters in the REAL keyword value list of the PRINT verb must be separated by commas. During the scan, an invalid delimiter was found in this list.
- *LENGTH OF REAL ADDRESS GREATER THAN 6*
  A storage address in the REAL operand list was specified with more than 6 hexadecimal digits.
- *STARTING OMITTED IN REAL OPERAND*
  Values in the operand of the REAL keyword must appear in pairs. An odd number of addresses was specified in this list.
- *DELIMITER ERROR IN PAGE OPERAND LIST*
  Parameters following the PAGE keyword of the PRINT verb must be separated by an equal sign, a comma, or parentheses. Some other delimiter was found during the scan.
- *LENGTH OF PAGE* {SGG / TTR} *GREATER THAN 6*
  A TTR or SGG value in the PAGE operand list was specified with more than 6 hexadecimal digits.
- *STARTING OMITTED IN PAGE OPERAND*
  TTR or SGG values in the operand of the PAGE keyword must appear in pairs. An odd number of TTR or SGG values was specified.
- *LENGTH OF PAGE DEVICE ADDRESS NOT EQUAL 3*
  The device address in the PAGE keyword operand must be 3 digits. The address specified was not 3 digits.
- *INVALID PAGE DEVICE ADDRESS*
  The device address value in the operand of the PAGE keyword must contain 3 digits, each of which must be within the numbers 0 through 9 or the letters A through F. At least one of the digits specified was not in either of these ranges.
- *INVALID* {SGG / TTR} *VALUE SPECIFIED*
  The TTR or SGG value must be within the numbers 0 through 9 or the letters A through F. At least one of the digits specified was not in either of these ranges.
- *NO DUMP FOR SPECIFIED DEVICE*
  The input data set did not contain a PAGE data set dump for the device address specified in the operand of the PAGE keyword.
- *INVALID PAGE DEVICE NUMBER*
  The relative device number in the operand of the PAGE keyword contains a digit that is not within the numbers 0 through 9, or the letters A through F. (OS/VS2 only.)
- *NO PAGE ENTRY FOR THIS DEVICE NUMBER*
  The relative device number in the operand of the PAGE keyword contained a value of zero or a value greater than the number of paging devices defined in the dumped system. (OS/VS2 only)
- *SYNTAX ERROR IN OPERAND FIELD OF TSO VERB*
  The keyword parameters for the TSO control statement have not been correctly specified. (OS/VS2 only)

System Action: If user control statements are being provided by the SYSIN data set, A/HMDPRDMP will scan the remaining control statements for syntax errors. No control statements will be executed until a correct NEWDUMP or NEWTAPE control statement is encountered. If user control statements are being entered from the system console, the A/HMDPRDMP program issues message A/HMD155D to allow the operator to enter a new control statement.
Programmer Response: Probable user error. If the control statements entered by way of the card reader, rerun the job specifying the control statements in the proper syntax.
Problem Determination: Table I, items 2, 13, 29.

A/HMD166I FORMAT ERROR DURING JOBNAME SEARCH

Explanation: A/HMDPRDMP encountered a format error while attempting to locate the virtual storage assigned to a specified job.
System Action: A/HMDPRDMP execution continues and, if possible, the search is continued.
Operator Response: None.

A/HMD168I DUMP DATA SET EMPTY - DD ddn

Explanation: The dump data set described by DD statement ddn does not contain a core image dump or a preformatted dump.
System Action: If the user control statements are being entered from the SYSIN data set, A/HMDPRDMP will scan the remaining control statements for syntax errors. No control statements will be executed until a correct NEWDUMP or NEWTAPE statement is encountered. If user control statements are being entered from the console, message A/HMD155D will be issued to allow the user to enter a new A/HMDPRDMP control statement.
Operator Response: Probable user error. The current input data set can not be processed by A/HMDPRDMP. If additional dumps are to be processed by A/HMDPRDMP, the NEWDUMP or NEWTAPE control statements may be used to specify a different input data set. Otherwise, execution of A/HMDPRDMP can be terminated by replying 'END' to message A/HMD155D.

A/HMD170I END OF FILE ON SYSIN - CONTROL PASSED TO OPERATOR

Explanation: All user control statements in the SYSIN data set have been processed without encountering an END control statement.
System Action: A/HMDPRDMP issues message A/HMD155D to the system console.
Programmer Response: None.

A/HMD171I PROCESSING FOR CURRENT DUMP DISCONTINUED

Explanation: A user control statement syntax error has been detected. This message notes the position in the SYSIN data set after which user control statements were ignored.

System Action: All remaining user control statements in the SYSIN data set are scanned, but none are executed until a valid NEWDUMP, NEWTAPE, SEGTAB, or CVT verb is encountered. If an end-of-file condition is reached without encountering an END statement, message A/HMD155D is issued.
Programmer Response: None.

A/HMD172I FUNCTION TERMINATED BY OPERATOR

Explanation: STOP has been entered in reply to message A/HMD156I.
System Action: A/HMDPRDMP ceases processing the current function statement and obtains the next user control statement.
Programmer Response: None.

A/HMD173I SYSUT1 IS NOT DA - DUMP WILL BE PROCESSED ON TAPE

Explanation: The SYSUT1 data set was not assigned to a direct access device.
System Action: Instead of processing the dump data set on direct access storage, A/HMDPRDMP processes the dump on the input tape.
Programmer Response: None.

A/HMD174I {SYSUT1 / SYSUT2} LOADED

Explanation: The work data set indicated in the message text has been loaded from the input data set.
System Action: If the work data set is SYSUT1, module A/HMDPREAD will get the dump information from the SYSUT1 data set. If the work data set is SYSUT2, load mode has been successful; execution terminates.
Programmer Response: None.

A/HMD175I NO TAPE DD CARD - SYSUT1 ASSUMED LOADED

Explanation: A TAPE DD statement is not included in the A/HMDPRDMP JCL.
System Action: A/HMDPRDMP assumes that the dump to be processed is in the data set described by the SYSUT1 DD statement. Dump processing will be attempted on this data set.
Programmer Response: None.

A/HMD176I ddn DD NOT TAPE DEVICE - NO WORK FILE DD

Explanation: The A/HMDPRDMP program has determined that the input data set does not reside on a tape device. The input data set is specified by the TAPE DD statement or by the DDNAME operand of the NEWDUMP control statement. When the input data set does not reside on a tape volume, one of the work files, SYSUT1 or SYSUT2, is required, but neither of these has been specified.
System Action: A/HMDPRDMP execution terminates.
Programmer Response: Either define the input as the SYSUT1 data set and omit the TAPE DD statement, or supply a DD statement for one of the following work data sets:

- SYSUT1 - This is a direct access work data set which is used temporarily to hold the dump during A/HMDPRDMP processing.
- SYSUT2 - This may be any data set to which the dump is copied for later processing by A/HMDPRDMP.

Problem Determination: Table I, items 1, 2, 13, 29.

A/HMD177I THESE MODULES NOT FOUND
A/HMD177I mod
A/HMD177I mod
etc.

Explanation: A/HMDPRDMP was unable to locate the named modules in either SYS1.LINKLIB or in a private library.
System Action: A/HMDPRDMP suppresses the function that required the use of the named modules, issues message A/HMD180I to indicate which function cannot be used, and continues processing with one of the following actions:

- If the module named in message A/HMD180I is required for execution of a control statement, that control statement is not executed, and A/HMDPRDMP proceeds with the next control statement.
- If the module is a user exit program for the EDIT function of A/HMDPRDMP, message A/HMD214I is issued to indicate that EDIT processing will terminate. A/HMDPRDMP continues with the next control statement.
- If the module is a format appendage for the EDIT function of A/HMDPRDMP, message A/HMD215I is issued to indicate that trace records requiring this appendage will be printed in the hexadecimal dump format.

Operator Response: Note the module names identified by message A/HMD177I and inform the system programmer that this message has been issued.
Programmer Response: If the module named in message A/HMD177I has the format A/HMDUSRxx, xx being a hexadecimal number in the range 1-50, the module is a user format appendage for the EDIT function. Trace records requiring this module are user trace records for which the hexadecimal dump may be desired. If this is the case, no programmer action is required.
If the module name is not of the format A/HMDUSRxx, or if the user format appendage is desired, message A/HMD177I indicates a probable user error. The required A/HMDPRDMP module must be link edited into a private library or the SYS1.LINKLIB data set.
Problem Determination: Table I, items 2, 29. Save a listing of the SYSPRINT data set produced by A/HMDPRDMP.

A/HMD178I I/O ERROR ON BLDL

Explanation: A/HMDPRDMP issued a BLDL macro instruction to locate a required module. The BLDL macro instruction encountered an input/output error.
System Action: A/HMDPRDMP suppresses the function that required use of the module, issues message A/HMD180I to indicate which function cannot be used, and continues processing with one of the following actions:

- If the module named in message A/HMD180I is required for execution of a control statement, that control statement is not executed and A/HMDPRDMP proceeds with the next control statement.
- If the module named in message A/HMD180I is a user exit program or a format appendage for the EDIT function of A/HMDPRDMP, message A/HMD214I is issued to indicate that EDIT processing will terminate. A/HMDPRDMP proceeds with the next control statement.

Operator Response: Inform the system programmer that this message was issued.
Programmer Response: Verify that the A/HMDPRDMP modules have been link edited correctly into the private library or SYS1.LINKLIB data set. Then, rerun the job.
Problem Determination: Table I, items 1, 4, 29.

A/HMD180I mod FUNCTION INOPERATIVE

Explanation: The function of A/HMDPRDMP, mod in the message text, is inoperative. This module can be one of the following:

- required for the execution of an A/HMDPRDMP control statement. In this case, the module name will have the format A/HMDPRxxx where xxx is one of:

PAL - PRINT ALL function
PCR - PRINT CURRENT function
PDR - PRINT F03 function (DAR) (OS/VS1 only)
FXT - FORMAT function
PJB - PRINT JOBNAME = (print storage by specific jobname)
LPA - LINK PACK AREA map function
SCN - EDIT GTF trace data (control card scan phase)
XED - EDIT GTF trace data (processing phase)
QCB - Queue Control Block trace
PPG - PRINT PAGE function
NUC - Print nucleus and SQA
PMS - PRINT STORAGE = or PRINT REAL
TSO - TSO function (OS/VS2 only)

- a system or subsystem format appendage routine for the EDIT function of A/HMDPRDMP. In this case, the module name has the format A/HMDSYSxx where xx is a hexadecimal number, or A/HMDUSRyy where yy is a hexadecimal number in the range 51-FF.
- a user exit program for the EDIT function of A/HMDPRDMP as specified by the EXIT parameter of the EDIT control statement.

System Action: The action taken by A/HMDPRDMP depends on why the named function has become inoperative. One of the messages A/HMD177I or A/HMD178I is issued prior to issuing message A/HMD180I to indicate both the reason for the function becoming inoperative and the resulting system action.
Operator Response: None.
Programmer Response: Follow the recommended programmer response indicated for messages A/HMD177I - A/HMD178I.

A/HMD181I DELETE ERROR - mod

Explanation: During execution of the EDIT function, A/HMDPRDMP attempted to acquire storage for the load of a program segment by deleting the loaded module (mod). It was found that module (mod) had already been deleted.
System Action: EDIT execution terminates; A/HMDPRDMP processing proceeds with the next control statement.
Operator Response: Report this message to the programmer.
Programmer Response: Probable user error. User exit programs and user format appendages for the EDIT function must not issue the DELETE macro instruction specifying modules of A/HMDPRDMP. Verify that this is not done. Rerun the job including a SYSPRINT DD statement in the A/HMDPRDMP JCL.
Problem Determination: Table I, items 1, 2, 4, 29. Save a listing of the SYSPRINT data set from A/HMDPRDMP.

A/HMD184I INPUT DATA SET INVALID

Explanation: A/HMDPRDMP has detected that the input data set is not a A/HMDSADMP high-speed dump or a system SVC Dump. The input block size is greater than 133 characters; therefore, the tape cannot be printed.
System Action: If user control statements are being provided by SYSIN data set, A/HMDPRDMP will scan remaining control statements for syntax errors. No control statement will be executed until a correct NEWDUMP, NEWTAPE, CVT = , SEGTAB = , or END control statement is encountered. If user control statements are being entered by way of the console, A/HMDPRDMP issues message A/HMD155D to let the user enter a new control statement.
Operator Response: Probable user error. If control statements are being entered by way of the console, the current tape volume should be demounted by entering the NEWDUMP or NEWTAPE control statement. Otherwise execute A/HMDPRDMP again, making sure that the correct dump tape is mounted.
Problem Determination: Table I, items 2, 13, 28, 29.

A/HMD187I INVALID EXEC CARD PARAMETER

Explanation: The A/HMDPRDMP program detected a syntax error in the value of the PARM = parameter of its EXEC JCL statement.
System Action: A/HMDPRDMP processing continues; the value assumed for this parameter may be in error.
Programmer Response: Probable user error. Correct the value of the PARM = parameter; make sure that MSGLEVEL = (1,1) is specified on the JOB statement and that a SYSPRINT DD statement has been included with the A/HMDPRDMP JCL. Rerun the job.
Problem Determination: Table I, items 4, 29.

A/HMD199D CONTINUE DEFINITION

Explanation: Control statements for the EDIT function of A/HMDPRDMP are being entered from the system console. An EDIT control statement is to be continued. (This message may follow message A/HMD200D.)
System Action: The A/HMDPRDMP program enters a wait pending the operator's reply.
Operator Response: Enter the continuation for the current EDIT control statement.

A/HMD200D A/HMDPRDMP VERB RECEIVED - EDIT KEYWORD EXPECTED

Explanation: A/HMDPRDMP control statements are being entered from the system console. Message A/HMD199D or message A/HMD210D requested additional EDIT keywords; however, the reply began with an A/HMDPRDMP verb.
System Action: If A/HMDPRDMP control statements are being provided by the SYSIN data set, A/HMDPRDMP will scan for syntax errors, without executing the remaining statements. If the control statements are being entered from the system console, message A/HMD199D or message A/HMD210D is reissued so that the operator may enter the correct keywords.
Operator Response: Obtain the proper continuation or respecification format from the programmer and enter the proper control statement in the reply to message A/HMD199D or message A/HMD210D.
Problem Determination: Table I, items 1, 2, 4, 29. Save the SYSPRINT data set from A/HMDPRDMP.

A/HMD201I INVALID KEYWORD BEGINNING WITH xxx

Explanation: While scanning a control statement, EDIT has encountered an invalid keyword. The first three characters of that keyword are indicated by xxx.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:

1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the user to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements are being provided by the SYSIN data set, rerun the job using valid keywords and abbreviations. If the control

statements are being entered by way of the system console, reenter the EDIT keywords with correct syntax.
Problem Determination: Table I, items 2, 4, 29.

A/HMD202I INVALID PARENTHESES

Explanation: While scanning a control statement, EDIT encountered either unbalanced parentheses or parentheses around keyword values for which only one value may be specified.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements were entered by way of the SYSIN data set, rerun the job, making sure that all parentheses are paired and that no parentheses are used with the DDNAME and EXIT keywords. If entering the control statements from the system console, reenter the EDIT keywords correctly.
Problem Determination: Table I, items 2, 4, 29.

A/HMD203I INVALID PARM VALUE FOR KEYWORD keywd

Explanation: While scanning the keyword parameter - keywd, EDIT encountered a value that contains other than valid alphameric values or a value that falls outside the range of values allowed for that keyword.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statments are being provided by the SYSIN data set, rerun the job, making sure that alphabetic and numeric characters are used correctly, and that all parameters fall within the range of values allowed. If the control statements are being entered by way of the system console, reenter the EDIT keywords, making sure that all the errors mentioned above have been corrected.
Problem Determination: Table I, items 2, 4, 29.

A/HMD204I LENGTH OF PARM INVALID FOR KEYWORD keywd

Explanation: While scanning parameter values associated with keyword (keywd), EDIT encountered a parameter value that exceeds the maximum length allowed for parameters of that keyword.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements are being provided by the SYSIN data set, rerun the job, making sure that all parameter values conform to length requirements. If the control statements are being entered from the system console, reenter the EDIT keywords, making sure that the error mentioned above has been corrected.
Problem Determination: Table I, items 2, 4, 29.

A/HMD205I DUPLICATE KEYWORD-keywd

Explanation: While scanning a control statement, EDIT encountered the EXIT or DDNAME keyword after it had already been specified with a different value.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements are being provided by the SYSIN data set, rerun the job, making sure that the EXIT or DDNAME keyword is specified only once per EDIT control statement. If the control statements were entered from the system console, reenter the EDIT keywords, making sure that the error mentioned above has been corrected.
Problem Determination: Table I, items 2, 4, 29.

A/HMD206I EXCESSIVE NO. PARM VALUES FOR KEYWORD keywd

Explanation: While scanning multiple parameter values associated with keyword (keywd), EDIT has encountered a greater number of unique parameter values than is allowed for this keyword.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.

Operator Response: None.
Programmer Response: Probable user error. If the control statements were entered from the SYSIN data set, rerun the job, making sure that the number of unique parameter values does not exceed the maximum number allowed for this keyword. If entering the control statements from the system console, reenter the EDIT keywords, making sure that the error mentioned above has been corrected.
Problem Determination: Table I, items 2, 4, 29.

A/HMD207I INVALID DELIMITER FOR KEYWORD keywd

Explanation: While scanning values for keyword (keywd) EDIT has encountered either a delimiter in the place of a value or an unexpected type of delimiter.
System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements are being provided by SYSIN data set, check all delimiters and rerun the job. If the control statements are being entered from the system console, reenter the EDIT keywords with the proper delimiters.
Problem Determination: Table I, items 2, 4, 29.

A/HMD208I START VALUE EXCEEDS STOP VALUE IN STMTS ABOVE

Explanation: The START parameter value is larger than the STOP parameter value.
System action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the user to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements are being provided by the SYSIN data set, rerun the job, ensuring that the STOP parameter value is greater than the START parameter value. If the control statements are being entered from the system console, reenter the EDIT keywords, making sure that the error mentioned above has been corrected.
Problem Determination: Table I, items 2, 4, 29.

A/HMD209I INVALID USERID OR RANGE

Explanation: While scanning the parameter values associated with the USR keyword, EDIT has encountered one of the following conditions:
- an invalid symbolic EID
- an EID range in which the left (lower) value exceeds the right (upper) value

System Action: If control statements are being provided by the SYSIN data set, the function requested by the control statement in error will not be executed. Further action depends on the type of data set being processed:
1. If a dump data set is being processed, A/HMDPRDMP will syntax-check the remaining control statements for that dump without executing them.
2. If an external trace data set is being processed, A/HMDPRDMP will resume processing with the next control statement.

If user control statements are being entered from the primary system console, A/HMDPRDMP issues message A/HMD210D to allow the operator to enter EDIT keywords.
Operator Response: None.
Programmer Response: Probable user error. If the control statements were entered by way of the SYSIN data set, rerun the job, making sure that any sumbolic EIDs used are valid and that the right (upper) value in an EID range is equal to or greater than the left (lower) value. If entering the control statements from the system console, reenter the EDIT keywords, making sure that all of the errors mentioned above have been corrected.
Problem Determination: Table I, items 2, 4, 29.

A/HMD210D RESPECIFY EDIT KEYWORDS OR REPLY 'RUNEDIT'

Explanation: An EDIT control statement entered from the system console is in error. This message is issued to allow the operator to respecify the keywords contained in that statement or to select default processing.
Note: If the control statement has been divided into a string of continued lines, only the keywords for the line in error may be respecified. The keywords from the previous lines have already been accepted.
System Action: EDIT waits pending the operator's reply.
Operator Response: Do one of the following:
- Respecify the keywords and values from the statement in error including corrections to syntax violations as noted by messages A/HMD201I through A/HMD209I.
- Reply RUNEDIT to cause EDIT execution to begin with the parameters selected on the previously accepted control statements. If no control statements have been accepted, the default options (EDIT SYS,USR = ALL) will be in effect.

A/HMD211I EDIT OPTIONS IN EFFECT-option list

Explanation: This message is issued to inform the user what keyword options have been accepted for EDIT's data reduction process. If more than one option has been accepted, they are separated by commas in the order specified below:

EXIT = exitname
DDNAME = ddname
START = (day,hh.mm.ss)
STOP = (day,hh.mm.ss)
JOBNAMES = (jjj_1,jjj_2,...jjj_5)
TCBS = (tcbaddr$_2$,tcbaddr$_2$,...tcbaddr$_5$)
either of the following:
IO = SIO = parm
or
SIO = parm,IO = parm
SVC = parm
PI = parm
USR = parm
EXT
DSP

In the options listed, parm may be either 'ALL', or 'SEL', where 'ALL' indicates that all events within that event class will be

edited, and 'SEL' indicates that only events selected by the user supplying the keyword parameter values for that event class will be edited.
System Action: EDIT processing continues with the above data reduction options in effect.
Operator Response: None.
Programmer Response: None.

A/HMD212I RCD ON PG nnnn. RET CODE rc RCVD FR MODULE mod

Explanation: The record currently being processed by EDIT has been dumped in hexadecimal on page number nnnn of the output data set. Module mod attempted to format that record, but EDIT was unable to process it because module mod returned an invalid return code (rc).
System Action: EDIT will display, in hexadecimal, the record associated with the error .
EDIT takes action based on the value of the "ER" parameter, specified in the EXEC statement of the A/HMDPRDMP JCL, as follows:
0-- If the error was in a format appendage module, as soon as EDIT recognizes that a subsequent record requires that module, processing will terminate for that record and EDIT will select another. If the error was in a user exit module, records will continue to be processed by the format appendages. Message A/HMD213I will then be issued by EDIT.
1-- If the error was in a format appendage module, all subsequent records requiring the same format module will be dumped in hexadecimal format. Message A/HMD215I will then be issued by EDIT. If the error was in a user exit module, formatting of records will continue. Message A/HMD213I will then be issued by EDIT.
2-- Processing of the current EDIT function will terminate. Message A/HMD214I is issued by EDIT, and processing will continue with the next control statement.
If ER = is not specified on the EXEC statement, a value of ER = 2 will be assumed.
Operator Response: Report this message to the programmer.
Programmer Response: Probable user error if the module name is either:
1. A/HMDUSRxx where xx is a hexadecimal number in the range 01-50.
2. A user exit name.

Verify that the module sets a valid return code, and correct it if necessary.
Problem Determination: If the module name is neither case (1) nor (2), see Table I, items 1, 2, 4, 29. Make sure that a SYSPRINT DD statement is included in the A/HMDPRDMP JCL. Save a listing of the SYSPRINT data set and the GTF input trace data set or the dump data set being processed.

A/HMD213I PROCESSING CONTINUES - BYPASSING MODULE mod

Explanation: This message is issued following message A/HMD212I and message A/HMD216I if the user has specified "0" as the value of the ER parameter on the A/HMDPRDMP EXEC statement. EDIT continues processing, bypassing format appendage or user exit module (mod).
System Action: EDIT execution continues. If the error noted in message A/HMD212I or A/HMD216I occurred in a format appendage module, further records requiring that module will not be processed. If the error noted in message A/HMD212I or A/HMD216I occurred in a user exit module, processing of records will continue without passing control to the failing user exit.
Operator Response: None.
Programmer Response: None.

A/HMD214I CURRENT EDIT FUNCTION TERMINATED

Explanation: This message is issued, during EDIT execution, when one of the following occurs:
1. A user exit module could not be found or loaded for execution.
2. A format appendage module, required for processing an external data set, existed in the correct library but could not be loaded for execution.
3. During an attempt to load a user exit module or a format appendage module, an I/O error occurred during execution of a BLDL macro instruction.
4. EDIT attempted to acquire virtual storage space for the load of a module needed to process the current input record by deleting a previously loaded user exit or format appendage module which is no longer in use. EDIT found, however, that the previously loaded format appendage or user exit module had already been deleted.
5. The user has specified '2' or '3' as the value of the ER = parameter on the A/HMDPRDMP EXEC statement, and an error, identified by message A/HMD212I, and message A/HMD216I occurs. When the user has specified '1' as the value of the ER = parameter on the A/HMDPRDMP EXEC statement, EDIT continues processing, dumping in hexadecimal any record that requires format appendage module (mod) for editing.

System Action: The current EDIT function terminates. Processing continues with the next control statement.
Operator Response: None.
Programmer Response: None.

A/HMD215I FURTHER RCDS REQUIRING mod WILL BE DUMPED IN HEX

Explanation: This message is issued following message A/HMD212I and message A/HMD216I when the user has specified '1' as the value of the ER = parameter on the A/HMDPRDMP EXEC statement. EDIT continues processing, dumping in hexadecimal any record that requires format appendage module (mod) for editing.
System Action: EDIT continues processing, having deleted format appendage module (mod). Any subsequent records requiring mod for editing will be dumped in hexadecimal.
Operator Response: None.
Programmer Response: None.

A/HMD216I RCD AND OTHER INFO ON PG nnnn. PGM CHECK IN MODULE mod

Explanation: A program check interrupt has occurred during execution of the format appendage or user exit module (mod). The current input record will be dumped in hexadecimal, along with information pertaining to the program check, on page nnnn of the A/HMDPRDMP data set.
System Action: EDIT will display in hexadecimal the record associated with the error. EDIT continues execution based on the value of the 'ER' parameter specified on the EXEC statement:
0-- If the error was in a format appendage module, as soon as EDIT recognizes that a subsequent record requires that module, processing will terminate for that record and EDIT will select another. If the error was in a user exit module, records will continue to be processed by the format appendages. EDIT will then issue message A/HMD213I.
1-- If the error was in a format appendage module, all subsequent records which require processing by the same format module will be dumped in hexadecimal format. Message A/HMD215I is then issued by EDIT. If the error

was in a user exit module, the resultant action is the same as if 'ER = 0' had been specified.

2-- Processing of the current EDIT function will terminate. Message A/HMD214I is issued by EDIT. Processing continues with the next control statement.

If ER = is not specified on the EXEC statement, a value of ER = 2 is assumed.

Operator Response: Report this message to the programmer.

Programmer Response: Probable user error if the module name is either:

1. A/HMDUSRxx where xx is a hexadecimal number in the range 01-50.
2. A user exit name.

Verify that the module in error has been thoroughly tested, using the 'ER = 3' parameter value on the A/HMDPRDMP EXEC statement and including a SYSABEND DD statement in the A/HMDPRDMP JCL if a dump of the module is desired.

Problem Determination: If the module name is neither case (1) or (2), do the following before calling IBM for programming support:

- Make sure that MSGLEVEL = (1,1) is specified on the A/HMDPRDMP JOB statement, that the 'ER = 3' parameter is specified on the A/HMDPRDMP EXEC statement, and that the SYSABEND and SYSPRINT DD statements are included in the A/HMDPRDMP JCL.
- Have available the system output (including the related dump), a listing of the SYSPRINT data set, the console sheet, and the GTF input trace data set or dump data set being processed.

A/HMD217I NO SYS DATA, JOB OR TCB SELECTION NOT ALLOWED

Explanation: The EDIT function of A/HMDPRDMP is being used and the JOBNAME or TCB keyword parameter was specified on the EDIT control statement. The trace data set being processed is in the SYSM format; therefore, editing of trace records by specific jobname or TCB address is not possible.

System Action: If control statements are being provided by the SYSIN data set, EDIT processing terminates and A/HMDPRDMP execution continues with the next user control statement. If control statements are being entered from the system console, message A/HMD218D will be issued allowing the operator to decide if EDIT processing is to continue.

Operator Response: Message A/HMD218D will be issued following message A/HMD217I. Respond to message A/HMD218D.

Programmer Response: Probable user error. If control statements are being provided by the SYSIN data set, do not use the JOBNAME or TCB address parameters of the EDIT control statement. Make sure that a SYSPRINT DD statement is included in the A/HMDPRDMP JCL. Rerun the job.

If control statements are being entered from the system console, respond to message A/HMD218D when it is issued.

Problem Determination: Table I, items 1, 3, 29. Save a listing of the SYSPRINT data set produced by A/HMDPRDMP. Save the GTF trace data set or the dump data set being processed.

A/HMD218D REPLY 'C' TO EDIT WITHOUT JOB/TCB SELECTION, 'S' TO TERMINATE

Explanation: A/HMDPRDMP control statements are being entered from the system console. The EDIT function of A/HMDPRDMP is being used and the JOBNAME or TCB keyword parameter was specified on the EDIT control statement. Trace data being processed is in the SYSM format; therefore, editing by specific jobname or TCB address is not possible. The operator is asked to decide whether or not processing is to continue without the requested selective editing.

System Action: The A/HMDPRDMP program waits pending the operator's reply.

Operator Response: If EDIT processing is to continue and all trace records are to be edited, reply 'C'. If EDIT processing is to stop, enter 'S', causing A/HMDPRDMP execution to continue with the next user control statement.

A/HMD219D EDIT DUMP - NO SELECT. REPLY DDNAME OR '0' TO TERMINATE

Explanation: A/HMDPRDMP control statements are being entered from the system console and the EDIT function is being used. The user has specified selective editing without including a DDNAME parameter in the EDIT control statement, thus requesting selective editing of GTF trace buffers in a dump data set. This is not permitted by the EDIT function.

System Action: The A/HMDPRDMP program enters a wait state until the response is entered.

Operator Response: If an external trace data set is to be edited, enter the ddname of the DD statement describing the data set. If an external trace data set is not to be edited, enter '0' and then enter the corrected EDIT control statement in response to message A/HMD155D.

A/HMD220I NO EDIT DD CARD - ddn

Explanation: The EDIT function of A/HMDPRDMP is being used. The DD statement specified by the EDIT keyword parameter DDNAME has been omitted from the A/HMDPRDMP JCL. In the message text, ddn is the name specified by this parameter.

System Action: EDIT processing terminates. A/HMDPRDMP execution continues with the next control statement.

Operator Response: Report this message to the programmer.

Programmer Response: Probable user error. Supply the necessary DD statement, or correct the DDNAME parameter by specifying the correct ddname. Make sure that a SYSPRINT DD statement has been included in the A/HMDPRDMP JCL. Rerun the job.

Problem Determination: Table I, items 1, 4, 29. Save a listing of the SYSPRINT data set produced by A/HMDPRDMP.

A/HMD224I BLKSIZE = 3500 ASSUMED, NOT SPECIFIED FOR DD - ddn

Explanation: The EDIT function of A/HMDPRDMP is being used. No blocksize was specified for the data set described by the DD statement ddn. This data set resides on a non-labeled magnetic tape volume.

System Action: EDIT processing continues with the blocksize 3500 assumed.

Operator Response: None.

Problem Determination: Table I, items 1, 4, 29. Save a listing of the SYSPRINT data set produced by A/HMDPRDMP.

A/HMD225I {REGION / PARTITION} TOO SMALL FOR EDIT BUFFERS

Explanation: A/HMDPRDMP's partition (region in OS/VS2) is too small to contain the trace data set buffers. The amount of storage required for the buffers is twice (there are two buffers) the value assigned to the BLKSIZE subparameter on the DD statement. If BLKSIZE is not specified, a default of 3500 bytes is assumed.

System Action: EDIT processing terminates. A/HMDPRDMP execution continues with the next user control statement.

Operator Response: Report this message to the programmer.

Programmer Response: Probable user error. Either (1) increase the partition or region size, or (2) decrease the value of the BLKSIZE parameter.
Problem Determination: Table I, items 1, 4, 29. Save a listing of the SYSPRINT data set produced by A/HMDPRDMP.

A/HMD226I NO RECORDS IN REQUESTED INTERVAL

Explanation: EDIT did not find any records in the requested interval for one of the following reasons:

- The time interval specified by the START/STOP keywords is within the time interval covered by the trace data set, but GTF did not generate any records during that time.
- The entire trace data set was generated before the START = time indicated by the EDIT control statement.

System Action: EDIT processing terminates. A/HMDPRDMP execution continues with the next user control statement.
Operator Response: None.
Programmer Response: None.

A/HMD227I DATA SET CREATED AFTER STOP TIME

Explanation: The EDIT function of A/HMDPRDMP is being used for an external trace data set. The user specified a STOP = value in his EDIT control statement that is earlier than the value of any time stamp record in the data set.
System Action: Current EDIT processing terminates and processing resumes with the next control statement.
Operator Response: Report this message to the programmer.
Programmer Response: Probable user error. Make sure that the STOP = time is within the time-range of this data set (this can be determined by executing A/HMDPRDMP EDIT with the same data set, specifying the SYS and USR = ALL options, and examining the block time stamps). Rerun the job with the correct STOP = value.
Problem Determination: Table I, items 4, 29. Save the trace data set and a listing of the SYSPRINT data set produced by A/HMDPRDMP.

A/HMD228I TRACE INPUT TO EDIT FROM {NON-OS/VS1 / NON-OS/VS2} SYSTEM

Explanation: The trace tape mounted as input for A/HMDPRDMP EDIT was created on an operating system other than OS/VS1 or OS/VS2.
System Action: A/HMDPRDMP EDIT processing terminates.
Programmer Response: Probable user error. Make sure that the output tape was created by A/HHLGTF or A/HMDSADMP service aids on an OS/VS1 or OS/VS2 system.
Problem Determination: Table I, items 2, 13, 29.

A/HMD229I MODULE mod EXCEEDS 10K LIMIT

Explanation: The size of the user exit or user format appendage (mod) is greater than 10K.
System Action: Further processing depends on the nature of the appendage and the type of trace data set being processed:

- If the data set being processed is an external trace data set, EDIT issues message A/HMD214I and terminates processing.
- If the data set being processed is an internal trace data set and module mod is a user exit, EDIT issues message A/HMD214I and terminates processing.
- If the data set being processed is an internal trace data set and module mod is a user format appendage, EDIT issues messages A/HMD215I and dumps, in hexadecimal format, further records requiring that format appendage.

Programmer Response: Ensure that the user exit or user format appendage is less than 10K.

A/HMD251I INPUT FILE DOES NOT CONTAIN A REAL OR VIRTUAL DUMP

Explanation: A/HMDPRDMP has determined that the input data set does not contain a real or virtual dump and therefore cannot print storage for a real or virtual request.
System Action: A/HMDPRDMP execution continues, but virtual and real requests cannot be printed.
Operator Response: Probable user error. If control statements are being entered through the console, the current tape volume should be demounted by entering the NEWDUMP or NEWTAPE control statement. Otherwise, execute A/HMDPRDMP again, making sure that the correct dump tape is mounted.
Problem Determination: Table I, items 2, 13, 28, 29.

A/HMD252I INPUT FILE DOES NOT CONTAIN A REAL DUMP

Explanation: A/HMDPRDMP has determined that the input data set does not contain a real storage dump for a PRINT REAL operation.
System Action: A/HMDPRDMP execution continues without printing real dumps.
Operator Response: Probable user error. If control statements are being entered by way of the console, the current tape volume should be demounted by entering the NEWDUMP or NEWTAPE control statement. Otherwise, execute A/HMDPRDMP again, making sure that the correct dump tape is mounted.
Problem Determination: Table I, items 2, 13, 28, 29.

A/HMD253I INPUT DOES NOT CONTAIN A PAGE DATA SET DUMP

Explanation: A/HMDPRDMP cannot perform the requested PRINT PAGE operation because the input data set does not contain a page data set dump.
System Action: A/HMDPRDMP continues processing without printing page data set dumps.
Programmer Response: Probable user error. If control statements are being entered by way of the console, the current tape volume should be demounted by entering the NEWDUMP or NEWTAPE control statement. Otherwise, execute A/HMDPRDMP again, making sure that the correct dump tape is mounted.
Problem Determination: Table I, items 2, 13, 28, 29.

A/HMD254I SYSUT1 D.A. FILE NOT DEFINED - EXECUTION TERMINATED

Explanation: Because there is no TAPE DD statement included in the A/HMDPRDMP JCL, the dump information is assumed to be on the direct access file, SYSUT1. However, either the SYSUT1 DD is not defined or else the file described by that DD statement is not direct access storage.
System Action: Execution terminates.
Programmer Response: Probable user error. Either supply a TAPE DD statement defining a tape containing dump data sets, or supply a SYSUT1 DD statement describing a direct access data set that contains dump information. Rerun the job.
Problem Determination: Table I, items 2, 3, 4, 13, 29.

AMD255I PAGE DEVICE TABLE INFORMATION UNAVAILABLE

Explanation: AMDPRDMP attempted to process a PRINT PAGE request that specified a relative device number. The control blocks that are necessary to associate the device number with its corresponding device address could not be extracted from the dump.

System Action: AMDPRDMP terminates processing for the current format verb and reads the next control statement.
Programmer Response: Respecify the PRINT PAGE request using the 3-digit device address instead of the relative device number.

AMD256I NOT ENOUGH STORAGE TO FORMAT TSO USERS

Explanation: The input dump being processed by AMDPRDMP was created by AMDSADMP and AMDPRDMP attempted to format the TSO users. While attempting to spool the LSQA for the TSO users to the SYSTSO data set, AMDPRDMP determined that there was not enough virtual storage available for tables and work areas.
System Action: Formatting of TSO users is not done but AMDPRDMP continues processing.
Programmer Response: Probable system error. If AMDPRDMP was executing in a region of 128K, enough storage should be available to process an average of 500 TSO users. If the system had more than 500 users active, rerun the job, increasing the region size by 64K for every 100 active users in excess of 500. If the dumped system had less than 500 TSO users active see the problem determination section.
Problem Determination: Table I, items 3, 13, 16, 29 and execute AMDPRDMP to process the dump, supplying FORMAT and PRINT ALL control statements.

AMD257I SYSTSO DD STATEMENT MISSING

Explanation: AMDPRDMP attempted to process a TSO control statement that required the use of the SYSTSO data set; the DD name SYSTSO was not in the TIOT for the AMDPRDMP step.
System Action: Processing for the current TSO control statement is limited to those control blocks not needing the SYSTSO data set; AMDPRDMP processing continues.
Programmer Response: Probable user error. Ensure that the SYSTSO DD statement is included in the JCL and is properly specified; rerun the job.
Problem Determination: Table I, items 3, 4, 29.

AMD258I FILE SYSTSO CANNOT BE OPENED

Explanation: AMDPRDMP attempted to process a TSO control statement that required the use of the SYSTSO data set; the SYSTSO DD statement was present but the data set could not be opened.
System Action: Processing for the current TSO job control statement is limited to those control blocks not needing the SYSTSO data set; AMDPRDMP processing continues.
Programmer Response: Probable user error. Ensure that the SYSTSO DD statement defines a device that can be opened with the OUTIN option (tape or direct access devices) and rerun the job.
Problem Determination: Table I, items 3, 4, 29.

AMD259I PERMANENT I/O ERROR ON SYSTSO

Explanation: AMDPRDMP attempted to process a TSO control statement that required the use of the SYSTSO data set; a permanent I/O error occurred while attempting to write to the data set.
System Action: Processing for the current TSO control statement is limited to those control blocks not needing the SYSTSO data set; AMDPRDMP processing continues.
Programmer Response: Probable hardware error. Ensure that the SYSTSO data set is allocated to another tape or direct access device and rerun the job.
Problem Determination: Table I, items 3, 4, 29.

A/HMD260I UNABLE TO ACCESS { PAGE / SEGMENT } TABLE AT aaaaaa ID = x

Explanation: A/HMDPRDMP was unable to access the Segment Table or Page Table for location zero from the 3-byte real storage address (aaaaaa) obtained from dumped storage.

x Meaning
1 The address was specified by the user with the SEGTAB = control statement.
2 The address was found in the Store Status area in dumped storage for control register 1 (location X'1C4').
3 The address was found in the CVT for the dumped system.

System Action: In VS1, if ID is 1 or 2, processing continues; HMDPRDMP will use the system Segment Table Origin address found in the CVT. If ID is 3, a format error is indicated and HMDPRDMP processing continues as described by message HMD161I.
In VS2, if ID is 1 or 2, processing continues. AMDPRDMP will use the Segment Table Origin address found in the CVT. If ID is 3, AMDPRDMP will use the address found in the Store Status area in dumped storage for control register 1 which points to the Segment Table. If this message is preceded by message AMD262I, it indicates that the value in control register 1 could not be used. A format error is indicated and AMDPRDMP processing continues as described by message AMD161I.
Programmer Response: If ID is 1 or 2, no response is necessary. The specified SEGTAB = address was erroneous or the control register 1 Store Status area was invalid. A/HMDPRDMP processing continues by using the Segment Table Origin found in the CVT. (In VS1 only, an ID of 3 should only occur after this message was issued with an ID of 1 or 2.) When this messages occurs twice, one of the following occurred:

1 An I/O error occurred and the record is not on the dump data set or cannot be read form the dump data set.
2 Both the control register 1 and the CVT pointers to the segment table are invalid.
3 The dump data set created by A/HMDPRDMP is not of a relocate system.

If A/HMDPRDMP error option 1 is specified on the EXEC statement, all of real storage is dumped by real storage addresses. Use this dump to determine the cause of the second appearence of this message. For case 1, no response is possible. In case 2, use the SEGTAB = control statement pointing to the real storage address of the Segment Table and run the job again. In case 3, try to process the dump data set with PRDMP for the proper system.
Problem Determination: Table I, items 1, 2, 3, 4, 29.

A/HMD261I UNABLE TO ACCESS CVT

Explanation: A/HMDPRDMP was unable to locate the CVT in the dump data set. Probably, selected portions of storage were dumped. This message will not occur when processing dumps created by A/HMDSADMP.
System Action: In VS1, processing continues; all verbs are syntax checked, but only PRINT STORAGE and PRINT NUCLEUS are acted on.
In VS2, processing continues; all verbs are syntax checked but LPAMAP, QCBTRACE, and TSO are not acted on.
Programmer Response: None.

A/HMD262I STORE STATUS DATA NOT AVAILABLE IN DUMP

Explanation: During initialization, either control register 0 or control register 1 was zero or could not be accessed from the dump data set logout area (location X'1C0' or X'1C4' respectively). A/HMDPRDMP assumes that either store status was not performed before an A/HMDSADMP was taken or the first data record is missing on the dump data set. Data saved by store status in the dumped storage of control register 1 includes the current PSW, the general purpose registers, the floating point registers, and the control registers.
System Action: Processing continues. A/HMDPRDMP will attempt to find the system segment table address in the CVT. The Store Status data area will be printed by the processing verbs; however, this data will be invalid when analyzing the dump.
Programmer Response: None.

A/HMD263I DUMP IS NOT FROM {OS/VS1 / OS/VS2} SYSTEM

Explanation: A/HMDPRDMP can only process dumps from OS/VS1 or OS/VS2 systems. A check is made in the dumped system's CVT option field (CVTDCB) for the OS/VS1 or OS/VS2 system configuration. If it is a real dump then it must have been created by A/HMDSADMP for that system; this one was not.
System Action: A format error occurs; processing continues as descirbed by message A/HMD161I.
Programmer Response: Probable user error. Check the module name in the output and verify that the dump is from an OS/VS1 or OS/VS2 system. Real storage dumps will have A/HMDSADMP as the module name. System-generated dumps will have the name of the system component requesting the dump as the module name. Verify that this component is part of the OS/VS1 or OS/VS2 system. Dumps created by other systems must be processed by the version of PRDMP for that system.
Problem Determination: Table I, items 1, 2, 3, 4, 29.

A/HMD264I PAGE TABLE FOR LOCATION ZERO NOT VALID ID = x

Explanation: A/HMDPRDMP could not find the Segment Table Origin because the page table entry for location zero in storage did not agree with a predetermined image of the page table for that location. The ID (x) indicates where the segment table address was obtained:

x	Meaning
1	The address was specified by the user with the SEGTAB = control statement.
2	The address was found in the Store Status area in dumped storage for control register 1 (location X'1C4').
3	The address was found in the CVT for the dumped system.

System Action: In VS1, if ID is 1 or 2, processing continues; A/DPRDMP will use the Segment Table Origin address found in the CVT. If ID is 3, a format error is indicated and HMDPRDMP processing continues as described by message AMD161I.
In VS2, if ID is 1 or 2, processing continues. AMDPRDMP will use the Segment Table Origin address found in the CVT. If ID is 3, a format error is indicated if oreceded by another message, (AMD262I or AMD264I) with ID 1 or 2. Then, AMDPRDMP processing continues as described by message AMD161I. Otherwise, processing continues using the value found in the control register 1 logout area as the Segment Table Origin.
Programmer Response: In VS1, if ID is 1 or 2, no response is necessary. An ID of 3 indicates that the Segment Table Origin pointer from the CVT was used. This ID should only occur if messages HMD260I or HMD264I with an ID of 1 or 2 have been issued. If error option 1 is used, all of storage is dumped by real storage address. Use this dump to determine if the Page Table pointed to by the first word of the Segment Table has been overlaid.
In VS2, no response is necessary if the message is issued only once for a dump data set. If AMDPRDMP error option 1 is used, all of storage is dumped by real storage address. Use this dump to determine if the Page Table location zero has been overlaid or is missing from the dump data set.
Problem Determination: Table I, items 1, 2, 3, 4, 29.

Component Name	IFC
Program Producing Message	Service aids: IFCDIP00, IFCEREP0
Audience and Where Produced	For operator (IFCDIP00 program): console. For programmer (IFCEREP0 program): SYSPRINT data set.
Message Format	IFCnnnI text (in SYSPRINT) xx IFCnnnI text (on console) nnn Message serial number. text Message text. xx Message reply identification (absent, if operator reply not required).
Comments	None.
Problem Determination	Refer to fold-out Tables I and II at the back of this publication for problem determination instructions.

IFCDIP00 Program Messages

IFC001I D = ddd N = x F = trck* L = trck* S = recd DIP COMPLETE**

Explanation: Produced by the IFCDIP00 program during the initialization of the SYS1.LOGREC data set, this message describes the limits of the data set.
In the messag text, ddd is the device type containing the SYS1.LOGREC data set; x is the hexadecimal representation of the device type code; in F = trck, trck is the address of the first track of the extent; in L = trck, trck is the address of the last track of the extent; and recd is the starting address of the record entry area within the data set. The asterisk indicates that hexadecimal representation causes 8-character printout, and two asterisks indicate that hexadecimal representation causes 10-character printout.
Operator Response: None.

IFC002I INVALID INPUT

Explanation: The ddname in one of the IFCDIP00 DD statements is misspelled.
Operator Response: Probable user error. Correct the DD statement. Then execute the IFCDIP00 program again.
Problem Determination: Table I, items 2, 29. Execute the A/HMASPZAP service aid program to dump the SYS1.LOGREC data set. Specify DSN = SYS1.LOGREC in the SYSLIB DD statement and include an ABSDUMP control statement, specifying the extents of the data set, after the SYSIN DD statement.

IFC003I I/O ERRORS

Explanation: An uncorrectable input/output error occurred while the IFCDIP00 program was formatting the SYS1.LOGREC data set.
System Action: IFCDIP00 program execution terminates.
Operator Response: Execute the IFCDIP00 program again.
Problem Determination: Table I, items 2, 29. Execute the A/HMASPZAP service aid program to dump the SYS1.LOGREC data set. Specify DSN = SYS1.LOGREC in the SYSLIB DD statement and include an ABSDUMP control statement, specifying the extents of the data set, after the SYSIN DD statement.

IFC004I OUT OF EXTENT

Explanation: While formatting the SYS1.LOGREC data set, the IFCDIP00 program found that the data set was too small. Probably, the initial track allocation was insufficient.
System Action: The IFCDIP00 program terminates.
Programmer Response: Probable user error. Request more space for the SYS1.LOGREC data set with the SPACE parameter of its DD statement. Rerun the IFCDIP00 job.
Problem Determination: Table I, items 2, 29. Execute the A/HMASPZAP service aid program to dump the SYS1.LOGREC data set. Specify DSN = SYS1.LOGREC in the SYSLIB DD statement, and include an ABSDUMP control statement, specifying the extents of the data set, after the SYSIN DD statement.

IFCEREP0 Program Messages

IFC010I ddn FAILED TO OPEN

Explanation: The DD statement whose ddname is specified in the message text is coded incorrectly or is missing. The input data set could not be opened.
System Action: The job step terminates (return code - 4).
Programmer Response: Probable user error. Correct or include the named DD statement, and execute the job step again.
Problem Determination: Table I, items 2, 4, 29.

IFC011I HEADER RECORD READ ERROR

Explanation: The header record on the SYS1.LOGREC data set could not be read.
System Action: The job step terminates (return code - 4).

Programmer Response: Execute the A/HMASPZAP service aid program to obtain a dump of the SYS1.LOGREC data set. Then execute the IFCDIP00 program to reinitialize the SYS1.LOGREC data set.
Problem Determination: Table I, items 2, 4, 14, 29.

IFC012I HEADER RECORD INVALID

Explanation: A validity check of the header record on the SYS1.LOGREC data set has uncovered an error.
System Action: The IFCEREP0 program will attempt to continue processing the data set.
Programmer Response: Execute the A/HMASPZAP service aid program to obtain a dump of the SYS1.LOGREC data set to verify the output of the IFCEREP0 program. Then execute the IFCDIP00 program to reinitialize the SYS1.LOGREC data set.
Problem Determination: Table I, items 2, 4, 14, 29.

IFC013I ddn INPUT ERROR

Explanation: An uncorrectable input error has occurred on the data set whose ddname is specified in the message text.
System Action: The program will continue processing. The record which caused the input error is ignored. No more records will be zeroed.
Programmer Response: Execute the A/HMASPZAP service aid program to obtain a dump of the data set on which the input error occurred. Move the volume containing the data set to another device, or move the data set to another volume to determine if the problem was caused by a hardware malfunction. If the message does not recur there is a probable hardware error on the device (or volume) originally used. Otherwise, a probable programming error exists. If the error occurred on the SYS1.LOGREC data set, execute the IFCDIP00 program to reinitialize the data set.
Problem Determination: Table I, items 2, 4, 14, 29 or 30.

IFC014I HEADER RECORD WRITE ERROR

Explanation: The header record of the SYS1.LOGREC data set cannot be updated because of an uncorrectable output error.
System Action: The program will terminate normally.
Programmer Response: Execute the IFCDIP00 program to reinitialize the SYS1.LOGREC data set.
Problem Determination: Table I, items 2, 4, 30.

IFC015I ddn OUTPUT ERROR

Explanation: An uncorrectable output error has occurred on the data set whose ddname is in the message text.
System Action: The system action depends on the data set on which the error occurred.
- If ddname is EREPPT, the job step terminates.
- If ddname is MEASURE, records are not zeroed but processing continues without further measurement.
- If ddname is ACCDEV, records are not zeroed but processing continues without further accumulation.

Programmer Response: Probable hardware error. Execute the job again after changing the device or the volume which caused the error.
Problem Determination: Table I, items 2, 4, 30.

IFC016I I/O ERROR WHILE ZEROING RECORD

Explanation: An output error on the SYS1.LOGREC data set was encountered when a zeroed record was being written.
System Action: The program will continue processing the selected records but no more records will be zeroed.
Programmer Response: Execute the IFCDIP00 program to reinitialize the SYS1.LOGREC data set.
Problem Determination: Table I, items 2, 4, 29.

IFC017I INPUT ERRORS HAVE EXCEEDED MAX

Explanation: More than 16 input errors have occurred during this execution of the IFCEREP0 program.
System Action: The job step terminates (return code--4).
Programmer Response: Execute the A/HMASPZAP service aid program to obtain a dump of the SYS1.LOGREC data set. Then execute the IFCDIP00 program to reinitialize the SYS1.LOGREC data set.
Problem Determination: Table I, items 2, 4, 14, 29.

IFC018I ddn END OF DATA BEFORE PROGRAM END

Explanation: The IFCEREP0 program found the end of data on the data set associated with ddname before the program was complete. The problem probably resulted from an input/output error.
System Action: The job step terminates (return code--4).
Programmer Response: Execute the A/HMASPZAP service aid program to obtain a dump of the SYS1.LOGREC data set. Then execute the IFCDIP00 program to reinitialize the SYS1.LOGREC data set.
Problem Determination: Table I, items 2, 4, 14, 29.

IFC019I PARAMETER FIELD SYNTAX ERROR

Explanation: A keyword or operand in the PARM field of the EXEC statement for IFCEREP0 is coded incorrectly.
System Action: The job step terminates (return code--4).
Programmer Response: Probable user error. Correct the parameter and execute the job step again.
Problem Determination: Table I, items 2, 4, 29.

IFC01AI PARAMETER CONFLICT

Explanation: Two of the parameters of the IFCEREP0 EXEC statement would endanger the data if the job step were to continue executing. Example: (ZERO = Y,PRINT = NO). The records would be lost without being either edited or accumulated.
System Action: The job step terminates (return code--4).
Programmer Response: Probable user error. Eliminate the conflicting parameters in the EXEC statement for IFCEREP0 and execute the job step again.
Problem Determination: Table I, items 2, 4, 29.

IFC01BI DUPLICATE KEYWORDS FOUND

Explanation: Two identical keywords were specified in the PARM field of the EXEC statement for IFCEREP0.
System Action: The job step terminates (reurn code--4).
Programmer Response: Probable user error. Eliminate one of the duplicate keywords, and execute the job step again.
Problem Determination: Table I, items 2, 4, 29.

IFC020I ENCOUNTERED MORE THAN 16 SEQ ERRORS STOP RUN

Explanation: The input measurement data set contains 16 or more consecutive records which are out of sequence. The FDE summary program is unable to handle sequence errors of this severity. Sequence errors normally result from a failure to accumulate the measurement data set in time order sequence.
System Action: The IPL report will report on system initializations up to the point of the error but will not print the clusters or mean IPL time. The hardware error report will not be generated. The FDE summary program will terminate.
Programmer Response: None.

IFC021I INVALID START DATE: CORRECT AND RESTART JOB

Explanation: The report starting date specified on the control card was either non-numeric or was before January 1, 1960. In order to obtain valid output the start date must be within 30 days of the first date on the first record of the measurement data set.
System Action: The job terminates.
Programmer Response: Correct the start date, and rerun the job.

IFC022I INVALID END DATE CORRECT AND RESTART THE JOB

Explanation: The end date of the report as specified on the control card was either not completely numeric or blank. This date must be greater than or equal to the start date.
System Action: The job terminates.
Programmer Response: Correct the end date in the control card, and rerun the job.

IFC023I INVALID CLUSTER VALUE; CORRECT AND RERUN JOB

Explanation: The IPL clustering time interval specified on the control card was not completely numeric or blank.
System Action: The job terminates.
Programmer Response: Correct the control card's IPL clustering time interval or leave it blank; then, rerun the job.

IFC024I SUPPLY AN RDE CONTROL CARD AND RERUN THE JOB

Explanation: A control card must be present in order to run the RDE summary program. This control card must at least specify the start date for the report.
System Action: The job terminates.
Programmer Response: Fill out the control card correctly and rerun the job.

IFC025I NO IPL RECORDS PROCESSED

Explanation: No IPL records were encountered in the measurement data set.
System Action: Processing continues.
Programmer Response: Insure that the proper measurement tape was mounted.

Component Name	IFD
Program Producing Message	Online test executive program.
Audience and Where Produced	For programmer: SYSPRINT data set. For operator: console.
Message Format	IFDnnnI text (in SYSPRINT) xx IFDnnns text (on console) nnn Message serial number. text Message text. xx Message reply identification (absent, if operator reply not required). s Type code: D Decision; operator must choose an alternative. E Eventual actions; immediate operator response not required. I Information: no operator action is required.
Comments	None.
Problem Determination	Refer to the fold-out Tables I and II at the back of this publication for problem determination instructions.

IFD100I message

Explanation: The message may be any of the following:

xxxxxyyy CANNOT RUN ON UNIT zzz
The configuration data in the OLT library or the UCB for unit zzz does not specify the device characteristics required by section yyy of test xxxxx. The test section is bypassed.
Operator Response: Probable user error. Check for an error in the test definition (OLTEP control statement or reply to message IFD105D).
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29. Cancel the job, requesting a dump.

NO DEVICE DESCRIPTORS FOR DEVICE
OLTEP scheduled a test for a device for which there is no configuration data entry in the OLTEP library. The test is bypassed.
Operator Response: None.

NOT ALL SELECTED ROUTINES WERE RUN
Not all the routines specified in the response to message IFD105D (ENTER-DEV/TEST/OPT) were executed. Either the routines do not exist, or the test section terminated before the routines were able to run.
Operator Response: None.

TEST CANCELLED. ATTEMPTED TO WRITE ON FILE PROTECTED DEVICE
A device is being tested in File Protect Mode. OLTEP is terminating a test section that tried to write on the device.
Operator Response: None.

test output
A test section is running and producing output. Because the Parallel Print (PP) option was selected, OLTEP sends this output to the console as well as to the output data set. Contents depends on the value specified with the option:
PP(0)-header only
PP(1)-header, description, comments
PP(2)-header, results
PP(3)-header, description, comments, results
If no value was specified with the option, PP(2) is assumed.
Operator Response: None.

IFD101D message

Explanation: This message is issued by an OLT program (test section). The OLT program requires the operator to perform some action or to make a decision before testing can continue.
System Action: OLTEP waits for the operator to respond.
Operator Response: Respond as indicated in the message text.

IFD102I OLTS RUNNING

Explanation: The Online Test Executive Program (OLTEP) has been loaded. Note: OLTEP is the executive program for the Online Test System (OLTS).
System Action: OLTEP processes the first OLTEP control statement (if any), or issues message IFD105D.
Operator Response: None.

IFD103I UCB NOT READY BIT ON, ddd TESTS BYPASSED

Explanation: The not-ready bit in the unit control block for device ddd is set to 1.
System Action: OLTEP will bypass all tests on device ddd. If another device was specified in the test definition, OLTEP will schedule testing of that device.
Operator Response: Ready device ddd and enter a VARY OFFLINE command so that the system sets the 'ready' bit.

Request the same test again when OLTEP issues message IFD105D. If this message is repeated when device ddd is readied, vary the device online, then offline and retry.

IFD104E TO FORCE COMMUNICATION WITH OLTEP EXECUTIVE, ENTER ANY CHAR

Explanation: This message enables the operator to stop a test in order to define a new test or terminate the job step.
Operator Response: Do not reply immediately. Reply when and if you want to stop a test in order to define a new test or terminate the job step.
To stop the running of a test, enter REPLY xx,'Y', where y is any character on the console keyboard. OLTEP will suspend testing and issue message IFD105D. If you respond by defining a new test, OLTEP will reissue message IFD104E before the new test is started.
Note that you can reply to message IFD104E at any time before the end of the job step. If you do not reply to the message, it is not reissued.

IFD105D ENTER-DEV/TEST/OPT/

Explanation: OLTEP is asking the operator what he wants to do next. The operator can define the next test to be run, or terminate the job step. He can also ask for help in defining the next test.
System Action: OLTEP waits for the operator to reply.
Operator Response: Define the next test (ask for help if necessary), or terminate the job step.

To define the next test, enter

REPLY xx,'devices/tests/options/'.

This reply is a test definition: it specifies the devices to be tested, the tests to be run, and the OLTEP options to be applied. For example,

REPLY xx,'180-184/2400//'

This means: "Test units 180 to 184; run basic IBM 2400 tape unit tests; use standard OLTEP options." For full information on how to enter a test definition, refer to the publication OS/VS OLTEP, GC28-0636.

To ask OLTEP for help in defining a test, enter REPLY xx,'PROMPT yyyy', where yyyy is one of the following:

DEV - device field
TEST - test field
OPT - option field
ALL - all of the above

OLTEP will issue messages that give examples of correct device, test, and option specifications. OLTEP will then reissue message IFD105D to let you define the next test.
Note: Rather than ask OLTEP for help, you can get the same information by referring to this manual for descriptions of messages IFD147I, IFD148I, and IFD149I.
To terminate the job step, enter REPLY xx,'CANCEL'.

IFD106I INPUT DATA DOES NOT CONTAIN 3 SLASHES

Explanation: An incorrect test definition has been entered, either as an OLTEP control statement or as a reply to message IFD105D. The test definition is incorrect because it does not contain three slashes as field delimiters. For example,

devices/tests/options

should be

devices/tests/options/

Note: If you reply to message IFD168E and the RETAIN/370 interface terminates before the response is transmitted to the remote specialist, you may receive first message IFD105D, then this message, then IFD105D again. In that case, you should ignore this message.
System Action: OLTEP will issue message IFD105D to permit a new test definition to be entered.
Operator Response: Probable user error. Respond as indicated to message IFD105D. If the test definition is correct, make sure that the sequence of events described in the NOTE above has occurred. Cancel the job, requesting a dump.
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29.

IFD107I OPTIONS ARE xxx,...,xxx

Explanation: A correct test definition has been entered. The test definition specifies or implies the OLTEP options indicated by the xxx fields in the message.
System Action: Testing continues.
Operator Response: None.

IFD108I INVALID ENTRY IN DEV FLD xx

Explanation: An incorrect test definition has been entered, either as an OLTEP control statement or as a reply to message IFD105D. The test definition is incorrect because of an error in the device field. The error is of type xx, which may be any of the following:
01 - invalid delimiter
02 - invalid address; invalid character between addresses
04 - field omitted; previous DEV entry invalid
60 - invalid range of device addresses
System Action: OLTEP issues message IFD161I, which explains how to request help in entering the device field. OLTEP then issues message IFD105D to permit either a request for help or a new test definition.
Operator Response: Probable user error. Respond as indicated to message IFD105D.
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29. Cancel the job, requesting a dump.

IFD109I ddd NOT OFFLINE

Explanation: OLTEP has been asked to test device ddd, but the device is not offline to the operating system.
System Action: OLTEP bypasses the device.
Operator Response: Vary the device offline, and request the same test again when OLTEP issues message IFD105D. (The VARY OFFLINE command will take effect when the operating system terminates or initiates a job step. If no jobs are being run concurrently with OLTEP, you must terminate OLTEP to let the VARY command take effect.)
Note: This message may be issued for any device except a telecommunications line or an IBM 3330, 2314, or 2319. IBM 3330, 2314 and 2319 devices and telecommunications lines can be tested while online, provided they are not actually in use. However, remote terminals must be offline to be tested.

IFD110I TESTABLE DEVICES MAY NOT EXCEED 16

Explanation: In a test definition (OLTEP control statement or reply to message IFD105D), more than 16 devices were selected for testing.
System Action: OLTEP will test the first 16 devices that meet test requirements; the others will be ignored.
Operator Response: None. Devices not tested at this time can be respecified the next time that OLTEP issues message IFD105D.

IFD111I NO DEVICES AVAILABLE FOR TEST

Explanation: In a test definition (OLTEP control statement or reply to message IFD105D), OLTEP has been asked to test one or more devices. The devices may not exist, have no UCBs or CDSs, or cannot be tested because they are online to the operating system. This message is also issued if a symbolic device is entered in response to message IFD105D but no 11SYMSYM DD statement is found in the input job stream.

System Action: OLTEP processes the next OLTEP control statement (if any), or issues message IFD105D.
Operator Response: Make sure that devices are specified correctly in the test definition. Vary offline any of the devices that are online. (The VARY OFFLINE command will take effect when the operating system terminates or initiates a jobstep. If no jobs are being run concurrently with OLTEP, you must terminate OLTEP to let the VARY command take effect.)
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29. Cancel the job, requesting a dump.

IFD112I INVALID ENTRY IN TEST FLD xx

Explanation: An incorrect test definition has been entered, either as an OLTEP control statement or as a reply to message IFD105D. The test definition is incorrect because of an error in the test field. The error is of type xx, which may be any of the following:

01 - invalid delimiter; device section repeated
04 - field omitted; previous test entry was invalid
05 - invalid test type (contains both letters and numerics) or other characters
06 - invalid test sections (name not alphabetic)
07 - invalid range of test sections
08 - invalid specification of test section routine (more than one test section is specified)
09 - invalid test section routine (not numeric)
10 - invalid range of test section routines

System Action: OLTEP issues message IFD161I, which explains how to request help in entering the test field. OLTEP then issues message IFD105D to permit either a request for help or a new test definition.
Operator Response: Probable user error. Respond as indicated to message IFD105D.
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29. Cancel the job, requesting a dump.

IFD113D CAN CTL PGM ON MULT-ADDR DEV ddd BE DESTROYED REPLY Y OR N

Explanation: OLTEP has been asked to test a multi-address device. The testing may destroy the control program for the multi-address device. OLTEP requests permission to test the device.
System Action: The system waits for the operator to reply.
Operator Response: Reply 'Y' to allow testing; reply 'N' to discontinue testing.

IFD114I ALL GRAPHICS ON CONTROL UNIT NOT OFFLINE

Explanation: OLTEP has been asked to test one or more IBM 2250 graphic display units. These units cannot be tested, because other 2250s on the same control unit are online to the operating system.
System Action: OLTEP processes the next OLTEP control statement (if any), or issues message IFD105D.
Operator Response: Vary all devices on the control unit offlne; request the same test again when OLTEP issues message IFD105D. (The VARY OFFLINE command will take effect when the operating system terminates or initiates a job step. If no jobs are being run concurrently with OLTEP, you must terminate OLTEP to let the VARY command take effect).

IFD115I INVALID ENTRY IN OPT FLD-xxxxxxxxxx

Explanation: An incorrect test definition has been entered, either as an OLTEP control statement or as a reply to message IFD105D. The test definition is incorrect because of an invalid entry in the option field. The first ten characters of the invalid entry appear in the xxxxxxxxxx field of the message text.
System Action: OLTEP issues message IFD161I, which explains how to request help in entering the option field. OLTEP then issues message IFD105D, to permit either a request for help or a new test definition.
Operator Response: Probable user error. Respond as indicated to message IFD105D or cancel the job, requesting a dump.
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29.

IFD116D LINE ddd IS ONLINE, CAN IT BE TESTED. REPLY YES OR NO

Explanation: OLTEP has been asked to test an online teleprocessing line (device ddd). To be tested, the line must be inactive.
System Action: OLTEP waits for the operator to reply.
Operator Response: Make sure that the line is inactive. (If the line is allocated to QTAM, you can do this by entering the STOPLN command at the primary or alternate telecommunication terminal.) Then enter REPLY xx,'YES'; OLTEP will accept the line as a device to be tested.
If the line is active and cannot be made inactive, enter REPLY xx,'NO'; OLTEP will bypass testing of the line. If the line is line 0 attached to an IBM 2702 or 2703 transmission control unit, OLTEP will bypass testing of all lines and issue message IFD111I.

IFD117I SECTION xxxxxyyy NOT FOUND

Explanation: In a test definition (OLTEP control statement or reply to message IFD105D), OLTEP has been asked to run one or more sections of test xxxxx. In VS1, the OLT program required to perform section yyy is not available in the OLT data set. In VS2, the OLT program required to perform section yyy is not available in the job library, step library, or link library.
System Action: OLTEP bypasses the test section.
Operator Response: Probable user error. In VS1, make sure the OLT has been edited into the OLT data set specified by the OLTCDSDD DD statement.
In VS2, if the OLT program named xxxxxyyy has not been included in the system link library (SYS1.LINKLIB), make sure that it is included in a private library that has been defined as the step library or job library.
Problem Determination: Table I, items 2, 4, 29. In VS1, if the program has been included in the OLT data set, execute the IEHLIST utility program to list the data set directory and save the listing. In VS2, if the program has been included in the job, step, or link library, execute the LISTPDS function of the IEHLIST utility program to list that library's directory. Save the listing.

IFD118I UNREADABLE TAPE LABEL-ddd

Explanation: OLTEP has been asked to test device ddd. which is an IBM 2400 or 3400 magnetic tape unit. Because of a permanent I/O error, OLTEP cannot determine whether a standard label scratch tape is mounted.
System Action: OLTEP issues messages IFD137I and IFD139D.
Operator Response: Message IFD137I indicates the nature of the error (for example, the device may not be loaded). If you can correct the error, enter REPLY xx,'R' in response to message IFD139D; OLTEP in turn will try again to read standard labels from the tape.
If you cannot correct the error, probable hardware error. Enter one of the following responses to message IFD139D:

- REPLY xx,'B' to allow OLTEP to bypass the device.
- REPLY xx,'P' to allow OLTEP to proceed with the test, using the mounted volume as a scratch tape; if the volume contains data or labels, they may be destroyed.

Problem Determination: Table I, item 30.

IFD119I NON-STANDARD TAPE LABEL-ddd

Explanation: OLTEP has been asked to test device ddd, which is an IBM 2400 or 3400 magnetic tape unit. Because the mounted volume does not have standard labels, OLTEP cannot determine whether the volume is a scratch tape. Device ddd may not be the one that the operator intended to test; the operator may have made a typing error entering the test definition.
System Action: OLTEP issues message IFD139D.
Operator Response: Make sure that the correct device was specified in the test definition. If it was not, this is probably a user error; enter REPLY xx,'B' in response to message IFD139D, and specify the correct device the next time message IFD105D is issued.
If the correct device was specified in the test definition, and the volume mounted on device ddd is not a scratch tape, remove the volume and replace it with a scratch tape. Then respond to message IFD139D as indicated below:

- If you mount a scratch tape with standard labels, enter REPLY xx,'R' in response to message IFD139D. OLTEP in turn will read the volume and data set labels to make sure that the tape can be used as a scratch volume.
- If you mount a scratch tape with no labels or with nonstandard labels, enter REPLY xx,'P' in response to message IFD139D. OLTEP will then proceed with the test. Data and labels may be destroyed.

If the volume mounted on device ddd has standard labels, or if you cannot mount a scratch volume, enter REPLY xx,'E' in response to message IFD139D and call IBM for support.

IFD120D CAN VOL DATA ON ddd BE DESTROYED, REPLY YES OR NO

Explanation: Device ddd is an IBM 2314/2319 or 3330 disk storage device or an IBM 2305 fixed head storage device. OLTEP is asking whether it can run tests that will destroy data stored on the device.
System Action: OLTEP waits for the operator to reply.
Operator Response: If OLTEP is permitted to destroy all data stored on the device, enter REPLY xx,'YES'. OLTEP will use the entire volume for testing. When testing is complete, you must use the IBCDASDI utility program to reinitialize the volume.
If the data on the volume must be preserved, enter REPLY xx,'NO' OLTEP will test the device in File Protect Mode; no write testing will be performed, and no data will be destroyed.

IFD121I xx MESSAGE CANCELLED BY OLTEP

Explanation: The operator has not replied to message IFD104E and OLTEP can no longer accept a reply.
System Action: OLTEP has cancelled the message, making a reply impossible.
Operator Response: Ignore the cancelled message.
Note: If the system provides multiple console support (MCS), message IFD121I is preceded by message IEE600I (ACCEPTED REPLY TO MSG xx IS 'S').

IFD122I VOL ON ddd {SECURITY PROTECTED / UNEXPIRED DATE}

Explanation: OLTEP has been asked to test device ddd, which is an IBM 2400 or 3400 magnetic tape unit or an IBM 2314, 1219, or 3330 device. The volume mounted on the device has standard labels and is offline. The volume is data-protected, contains a security-protected data set, or a data set with an unexpired date. OLTEP cannot use this volume as a scratch tape for testing the device.
Device ddd may not be the one that the operator intended to test; the operator may have made a typing error entering the test definition.
System Action: OLTEP issues message IFD139D.
Operator Response: Make sure that the correct device was specified in the test definition. If it was not, this is probably a user error; enter REPLY xx,'B' in response to message IFD139D, and specify the correct device the next time message IFD105D is issued.
If the correct device was specified in the test definition, and the volume mounted on device ddd is not a scratch volume, remove the volume and replace it with a scratch volume that does not contain a security-protected data set. Then enter REPLY xx,'R' in response to message IFD139D. OLTEP will try again to recognize the volume as a scratch volume.
If the volume mounted on device ddd was not security-protected or if you cannot mount a scratch volume, enter REPLY xx,'B' in response to message IFD139D and call IBM for support.

IFD124I CEPACK NOT ON ddd, VOLID = ser

Explanation: OLTEP has been asked to test unit ddd which is an IBM 2314, 2319 or 3330 direct access device. The volume label does not indicate a CEPACK.
System Action: OLTEP issues message IFD139D.
Operator Response: If possible, replace the mounted volume with a CEPACK. Then respond to message IFD139D as indicated below.
If you can mount a CEPACK, enter REPLY xx,'R' in response to message IFD139D. OLTEP will verify that the volume is a CEPACK and proceed with the test.
If a CEPACK is not available to be mounted, enter one of the following responses to message IFD139D:

- REPLY xx,'B' to allow OLTEP to bypass the device.
- REPLY xx,'P' to allow OLTEP to proceed in File Protect Mode; the test will not destroy data on the volume unless you give permission in a later response to message IFD120.

IFD125I UNREADABLE LABEL ON ddd

Explanation: OLTEP attempted unsuccessfully to read the label of the volume on device ddd.
System Action: OLTEP issues messages IFD137I and IFD139D.
Operator Response: Respond to messages IFD137I and IFD139D as indicated below:
Message IFD137I indicates the nature of the error. If you can correct the error, enter REPLY xx,'R' in response to message IFD139D. OLTEP will try again to read the volume label.
If you cannot correct the error, this is probably a hardware error. Enter one of the following response to message IFD139D:

- REPLY xx,'B' to allow OLTEP to bypasss the device.
- REPLY xx,'P' to allow OLTEP to proceed in File Protect Mode; tests will not destroy data on the volume unless you give permission in a later response to message IFD120D.

Problem Determination: Table I, item 30.

IFD127I NO CDS FOR ddd

Explanation: OLTEP cannot locate the CDS for device ddd.
System Action: Device ddd is bypassed for testing.
Operator Response: Probable user error. If the CDS for device ddd has not been included in the OLT (OLTCDSDD) or REMOTE (SYMSYM) data set, make sure that it is edited before running this device on OLTEP.
Problem Determination: Table I, items 25, 29.

IFD129I FIRST ERROR COMMUNICATION xxxxxxxx yyyy UNIT ddd [aaaaaaaa]

Explanation: Routine yyyy of OLT program xxxxxxxx has detected an error on device ddd. (OLT program xxxxxxxx performs routine yyyy of the test.) Because the first error (FE) communication option is in effect, OLTEP will issue message IFD105D to let the operator determine whether testing should continue. aaaaaaaa is used if a symbolic name is applicable.
System Action: OLTEP issues message IFD105D.
Operator Response: If the PP option has been specified, message IFD100I will be issued to indicate the nature of the error. After you have determined the cause of the error and have taken the appropriate corrective action, you can choose to do one of the following:

- You may resume testing with the same option in effect by entering REPLY xx,'///' in response to message IFD105D. The first error option will not occur again during this OLT section.
- You may resume testing with different options by entering REPLY xx,'//yyy,yyy,.../' where yyy is an OLTEP option. (For a list of OLTEP options, refer to the description of message IFD149I.) Any option that is not specifically changed remains in effect. Thus, the FE option remains in effect unless you specify NFE; however, message IFD129I will not be issued again during this OLT section.
- You may define a new test or terminate the job step; to do this, refer to the description of message IFD105D.

Problem Determination: If you are unable to correct the error described by message IFD100I, or if you are unable to determine the nature of the error, see Table I, item 29.

IFD130I INTERVENTION REQ ddd

Explanation: OLTEP has been asked to test device ddd. The device is not ready; operator intervention is required.
System Action: OLTEP issues messages IFD137I and IFD139D.
Operator Response: Ready the device; then enter REPLY xx,'R' in response to message IFD139D. OLTEP will test the device again to see if it is ready. If the device remains unready, OLTEP will issue the same messages again.
If you cannot successfully ready the device, you can either proceed with the test or bypass it. To proceed with the test, enter REPLY xx,'P' in response to message IFD139D. If you are testing an IBM 2314, 2319 or 3330 direct access device, testing will proceed in File Protect Mode; data on the device will not be destroyed unless you give permission in response to a later issuance of message IFD120D.
To bypass the test, enter REPLY xx,'B' in response to message IFD139D.

IFD134I WARNING- DASD VOLUME LABELED CEPACK NOT PROTECTED FROM WRITE

Explanation: This message warns that if a direct access volume with the volume serial number CEPACK is mounted, OLTEP will use that volume for a scratch volume.
System Action: OLTEP issues message IFD105D, asking for a test definition.
Operator Response: Before responding to message IFD105D, make sure that the volumes with a serial number of CEPACK are available for OLTEP's use; any data on those volumes may be lost.

IFD137I CSW xxyyyyyyyyyyyyyy SNS sns

Explanation: An error occurred during execution of OLTEP data protection. This message displays sense data resulting from the error condition (indicated in the message test by sns) and the low-order bytes of the channel status word (CSW).
System Action: OLTEP issues message IFD139D.
Operator Response: Examine the sense data and the flag bytes of the CSW to determine what action, if any, can be performed to correct the error. (Note that some of the sense data may be invalid; the number of valid sense bytes depends on the device type.) Respond as indicated to message IFD139D.

IFD138I DEV ddd NOT OPERATIONAL, CC = 3

Explanation; OLTEP has been asked to test device ddd. The device is not operational or does not exist. In the message text, CC = 3 represents the condition code resulting from an SIO instruction.
System Action: OLTEP issues message IFD139D.
Operator Response: If device ddd does not exist, enter REPLY xx,'B' in response to message IFD139D. Enter the correct device the next time message IFD105D is issued.
If device ddd exists but is not loaded, mount a C.E. volume or scratch volume and ready the device. If the device exists but is not ready, make it ready. In both cases, enter REPLY xx,'R' in response to message IFD139D; OLTEP will again test for an operational device.
If you cannot make the device operational, this is probably a hardware error. Enter one of the following:

- REPLY xx,'B' to allow OLTEP to bypass the device.
- REPLY xx,'P' to allow OLTEP to proceed in File Protect Mode and attempt to perform the specified test; testing, if successful, will not destroy data, unless you give permission in response to a later issuance of message IFD120D.

Problem Determination: In both cases, see Table I, item 30.

IFD139D REPLY

B	TO BYPASS, R TO RETRY
B	TO BYPASS, R TO RETRY, P TO PROCEED
B	TO BYPASS, R TO RETRY, P TO PROCEED (MAY DESTROY DATA)
R	TO RETRY, P TO PROCEED

Explanation: An input/output operation has resulted in a permanent error condition. The cause and nature of the error has been given in messages issued previously.
System Action: The system action depends on the operator's response.
Operator Response: Respond as indicated in the messages issued previously. If you can, remove the cause of the error and enter REPLY xx,'R'; OLTEP will try again to perform the interrupted operation. If you cannot remove the cause of the error, enter REPLY xx,'B' to bypass testing of the device, or REPLY xx,'P' to proceed without retrying the unsuccessful operation.

IFD144D TIMEOUT, NO INTERRUPT-UNIT ddd. REPLY WAIT OR CANCEL

Explanation: OLTEP is testing a device. Thirty seconds have elapsed since the start of an I/O operation; no interruption has occurred to signal completion of the operation. The interruption may have been lost due to a device error; OLTEP is asking whether to cancel the operation or to wait for its completion.
System Action: OLTEP waits for the operator to reply.
Operator Response: To wait for I/O completion, enter REPLY xx,'WAIT'. To cancel the I/O operation and continue testing, enter REPLY xx,'CANCEL'.
Note: This message will appear only if the interval timer is working, and the operating system includes the interval timer option.

IFD145D IS ddd OFFLINE TO ALL SHARING SYSTEMS, REPLY YES OR NO

Explanation: Device ddd is an IBM 2314, 2319, or 3330 disk storage device or an IBM 2305 fixed head storage device; it may be sharable by two or more computing systems. The device is offline to the system where OLTEP is running. OLTEP is asking if that device is also offline to the other sharing systems.
System Action: OLTEP waits for the operator to reply.
Operator Response: Determine whether the device is offline to all operating systems that may share the device.
If it is, enter REPLY xx,'YES'; OLTEP will issue message IFD120D to allow you to decide whether data on the device can be destroyed.
If the device is not offline to all operating systems, enter REPLY xx,'NO'; OLTEP will test the device in File Protect Mode. No write testing will be performed, and no data will be destroyed.

IFD146I SEE SRL ONLINE TEST EXECUTIVE PROGRAM

Explanation: In response to message IFD105D, the operator asked OLTEP for help in entering a test definition. OLTEP has issued one or more messages to provide examples of correct device, test, and option specifications. In this message, OLTEP refers the operator to the SRL publication *OS/VS OLTEP*, GC28-0636.
System Action: OLTEP reissues message IFD105D.
Operator Response: For additional help, refer to the publication indicated by the message. Then enter a test definition in response to message IFD105D (or terminate the job step).

IFD147I text

```
IFD147I EXAMPLES OF DEVICE FIELD
IFD147I 185-187/          TEST DEVICES 185,186, AND 187
IFD147I 285-285. 184.B/   TEST DEVICES 285. 286. 184 AND
                          SYMBOLIC B
IFD147I .NDR/             NO DEVICE REQUIRED FOR TEST
IFD147I / (SLASH ALONE)   TEST PREVIOUSLY SELECTED DEVICE(S)
IFD147I CHICAGO1/         TEST SYMBOLIC TP DEVICE CHICAGO1
```

Explanation: In response to message IFD105D, the operator asked for help in entering the device field of a test definition. In this message, OLTEP shows the operator how to specify the devices to be tested.
System Action: OLTEP issues message IFD146I and reissues message IFD105D.
Operator Response: Respond as indicated to messages IFD146I and IFD105D.

IFD148I text

```
IFD148I EXAMPLES OF TEST FIELD
IFD148I 2400/             TAPE TESTS (T2400A-T2400OZ)
IFD148I 2400A/            SEC. A OF TAPE TEST 2400
IFD148I 2400C,2/          RTN. 2,SEC. C. TEST 2400
IFD148I 2400A-C,E,G/      SEC. A,B,C,E. AND G OF TEST 2400
IFD148I R2540AA/          SEC. AA OF READER TEST 2540
IFD148I / (SLASH ALONE)   RUN PREVIOUSLY SELECTED TESTS
```

Explanation: In response to message IFD105D, the operator asked for help in entering the test field of a test definition. In this message, OLTEP shows the operator how to specify the test to be run.
System Action: OLTEP issues message IFD146I and reissues message IFD105D.
Operator Response: Respond as indicated to messages IFD146I and IFD105D.

IFD149I text

```
IFD149I                  TABLE OF OPTIONS
IFD149I                       TO REQUEST  TO OMIT    BY
IFD149I OPTION                OPTION      OPTION     DEFAULT
IFD149I TESTING LOOP          TL          NTL        NTL
IFD149I                          TL (VALUE) VALUE = 1-32767
IFD149I ERROR LOOP            EL          NEL        NEL
IFD149I                          EL (VALUE) VALUE = 1-32767
IFD149I ERROR PRINT           EP          NEP        EP
IFD149I CONTROL PRINT         CP          NCP        CP
IFD149I PARALLEL PRINT        PP          NPP        NPP
IFD149I                          PP (LEVEL) LEVEL = 0-3
IFD149I PRINT                 PR          NPR        PR
IFD149I FIRST ERROR           FE          NFE        FE
IFD149I COMMUNICATION
IFD149I MANUAL INTERVENTION   MI          NMI        NMI
IFD149I REMOTE FE CONTROL     RE          NRE        NRE
IFD149I EXTERNAL DATA         EXT =
IFD149I EXAMPLES OF OPTION FIELD
IFD149I PP,NMI,RE/
IFD149I EP,TL(50),FE,EXT = A,B/
IFD149I TRACE OPTION          TR          NTR        NTR
```

Explanation: In response to message IFD105D, the operator asked for help in entering the option field of a test definition. This message shows the operator how to specify options.
System Action: OLTEP issues message IFD146I and reissues message IFD105D.
Operator Response: Respond as indicated to messages IFD146I and IFD105D.

IFD154E message

Explanation: This message is issued by an OLT program that OLTEP has called to perform a test section. The text of the message varies, but always defines an operator response. The response is generally optional, and can be made at any time before the test section is completed.
System Action: The OLT program continues processing.
Operator Response: Respond as indicated in the message text. If you do not reply to the message before the test section is completed, OLTEP will cancel the message and notify you by issuing message IFD121I.

IFD154I DEVICE ddd CDS/UCB CLASS INCOMPATIBILITY TEST(S) BYPASSED

Explanation: An unrecognizable device class was found in the CDS; the device (ddd) is not tested.
System Action: Execution is bypassed for device ddd.
Operator Response: Correct the CDS and run the device test again.

IFD155I TEST SECTIONS MAY NOT EXCEED 26

Explanation: Too many test sections were specified in a test definition (OLTEP control statement or reply to message IFD105D).
System Action: OLTEP will run (or try to run) the first 26 test sections specified in the test definition. OLTEP will ignore the remaining sections.
Operator Response: None. Test sections not run at this time can be respecified when OLTEP next issues message IFD105D.

IFD156I DEVICE ddd STATUS CHANGED, BYPASS TESTS

Explanation: OLTEP has suspended testing of device ddd. During the test, the device status was changed from online to offline, and an allocation for write space was requested by the OLT.
System Action: OLTEP bypasses the device.
Operator Response: If the device status has changed from online to offline, no action is necessary. Reenter the device in response to message IFD105D.

IFD157I CATASTROPHIC ERROR ON DEVICE ddd[name]

Explanation: OLTEP has suspended testing of device ddd. The device is not ready, or for some other reason cannot be tested. When present, name indicates the symbolic name.
System Action: OLTEP issues message IFD105D.
Operator Response: Make sure that the device is ready. If it is not, make it ready and enter REPLY xx,'///' in response to message IFD105D.
If the device is ready, look for diagnostic information which will be issued by the OLT program. If the PP option has been specified, this information will appear on the console as the text of message IFD100I; otherwise, the information will be routed to the SYSOUT data set.
After you have determined the nature and cause of the error and have taken the appropriate corrective action, you can choose to resume testing by entering REPLY xx,'///' in response to message IFD105D. If you cannot correct the error, enter a new test definition or terminate the job step (use the procedure outlined in the description of message IFD105D).
Problem Determination: Table I, item 30.

IFD158I ww xxxxx {yyy / y $} UNIT ddd aaaaaaaa

Explanation: New section yyy or old section y $ of test xxxxx has been started or terminated for unit ddd for symbolic terminal aaaaaaaa. (If the test definition specifies NDR (no device required), the phrase UNIT ddd does not appear.) The ww field is one of the following:

S
Section has been started.

T
Section has been terminated.

*T
Section has been terminated; device errors were detected.

Operator Response: None.
Note: This message is issued only when the Control Print (CP) option is in effect.

IFD159I MODULE {mod / G0000ddd / aaaaaaaa} NOT FOUND

Explanation: One of the following has occurred:

- An OLT program has asked OLTEP to load module mod. This module is not in the step library, job library, or link library (SYS1.LINKLIB).
- No configuration data exists for device ddd or for symbolically named terminal aaaaaaaa.

System Action: If the message is issued because of a missing module, the OLT program continues. If the message is issued because of missing configuration data, and if testing is taking place on a System/370 CPU, device ddd or aaaaaaaa is not tested.
Operator Response: Do one of the following:

- If the message is issued because of a missing module or because of missing configuration data for device ddd, and if the module or data is supposed to reside in a private library, make sure that a step library or job library is defined in the JCL which is used to invoke OLTEP.
- If the message is issued because of missing configuration data for device aaaaaaaa, make sure that the data set which contains configuration data for symbolically named devices is specified in the JCL which is used to invoke OLTEP.

IFD160I INSUFFICIENT CORE

Explanation: An OLT program has required more main storage than is available.
System Action: OLTEP returns control to the OLT program with an error return code. Testing will proceed if the OLT program can recover from the error condition; otherwise, testing will terminate.
Operator Response: If you can provide additional main storage, cancel the job and reschedule it in a larger region or partition.

IFD161I FOR HELP ENTER PROMPT xxxx TO NEXT DEV/TEST/OPT/ MESSAGE

Explanation: OLTEP has issued message IFD108I, IFD112I, or IFD115I to diagnose an error in the test definition. The error is in the xxxx field, where xxxx is DEV, TEST, or OPT. This message explains how to request help in correcting the error.
System Action: OLTEP issues message IFD105D.
Operator Response: Respond as indicated to message IFD105D. For help, enter REPLY xx,'PROMPT xxxx'.

IFD162I UNIT ddd, DSNAME = dsn COULD NOT BE SCRATCHED

Explanation: OLTEP is testing an IBM 2305 drum storage device. An OLT program has created a data set on the device, and OLTEP has tried unsuccessfully to scratch the data set.
System Action: OLTEP continues processing.
Programmer Response: Probable hardware error. Execute the IEHPROGM utility program to scratch the data set.
Problem Determination: Table I, item 30.

IFD163I RETAIN/370 READY

Explanation: This message is issued when a line connection has been successfully established between RETAIN/370 and the OLTEP REI interface.
Operator Response: Proceed with testing.

IFD164I CANNOT LINK TO RETAIN/370

Explanation: OLTEP attempted unsuccessfully to enable a telecommunication line between RETAIN/370 center and the OLTEP REI interface.
System Action: OLTEP issues message IFD137I and re-issues message IFD105D.
Operator Response: Make the attempt again. If message IFD164I is issued and IFD137I contains all zeroes, vary the IBM 2955 online, restart OLTEP and try again.
Problem Determination: Table I, item 30.

IFD165I ENTRY IN DEV FLD NOT ALLOWABLE BY REMOTE

Explanation: The remote specialist has entered unit addresses in the device field in response to message IFD105D. .NDR (no devices required) is the only permissible entry in the device field by the remote specialist.
System Action: OLTEP reissues message IFD105D.
Operator Response: Respond to message IFD105D, making sure that no unit addresses are specified in the device field. Unless you wish to enter .NDR in the device field, make sure that any information entered in the test and option fields is preceded only by a / (slash).

IFD166I OLT DOES NOT SUPPORT TALK

Explanation: The operator responded with 'TALK' to message IFD105D, but the OLT program did not support TALK.
System Action: Message IFD105D is reissued.
Operator Response: Respond to message IFD105D.

IFD167I PERMANENT ERROR ON REI DEVICE

Explanation: Contact with the RETAIN/370 center has been lost or cannot be established because of an uncorrectable error.
System Action: OLTEP issues messages IFD137I, IFD169I and IFD105D.
Operator Response: You can attempt to reestablish contact with the RETAIN/370 center by entering REPLY xx,'REI' in response to message IFD105D.
Problem Determination: Table I, item 30.

IFD168E TO COMMUNICATE WITH REMOTE SPECIALIST ENTER MESSAGE

Explanation: This message allows the on-site operator to communicate with the remote specialist.
System Action: Processing continues but this message remains outstanding until a reply is entered.
Operator Response: When you want to communicate with the remote specialist, enter REPLY xx,"message",where message is any character string that you wish to send. You need not reply to this message immediately.

IFD169I RETAIN/370 TERMINATED

Explanation: This message is issued to indicate that RETAIN/370 has terminated.
System Action: Message IFD105D is issued.
Operator Response: None.

IFD173I REPLY xx NOT VERIFIED

Explanation: OLTEP is unable to verify the reply ID specified by the remote specialist in his reply to a message.
System Action: Processing continues.
Operator Response: The remote specialist must reenter his response, making sure that he specifies the correct reply ID.

IFD174I UNABLE TO RESTORE LABEL ON DEVICE ddd

Explanation: OLTEP has completed testing of device ddd, which is an IBM 2400 or 3400 magnetic tape unit. A standard-label scratch tape is mounted, but testing has destroyed the labels or the device is not ready. OLTEP has tried unsuccessfully to create new labels on the tape.
System Action: OLTEP issues messages IFD137I and IFD139D.
Operator Response: Probable hardware error. Respond as indicated to messages IFD137I and IFD139D.
Message IFD137I indicates the nature of the error, which may be, for example, that the device is not loaded. If you can correct the error, enter REPLY xx,'R' in response to message IFD139D. OLTEP will try again to write standard labels on the tape.
If you cannot correct the error, enter REPLY xx,'B' in response to message IFD139D. OLTEP will leave the tape unlabelled. You must relabel the tape before you can use it again as a standard-label scratch tape.
Problem Determination: Table I, item 30.

IFD176I MUTUALLY EXCLUSIVE OPTIONS HAVE BEEN SELECTED

Explanation: In responding to an immediate or outstanding message when Retain/370 was active, the operator selected options RE and MI; these options are mutually exclusive.
System Action: OLTEP issues message IFD161I and reissues message IFD105D.
Operator Response: Probable user error. In responding to an immediate or outstanding message, select either option RE or option MI, but do not specify both.
Problem Determination: Table I, items 2, 29.

IFD178I MESSAGE xx ANSWERED BY REMOTE

Explanation: This message is issued to the on-site console to indicate that the remote specialist has replied to message IFD104E or IFD105D. In the message text, xx represents the reply ID of message IFD104E or IFD105D.
System Action: Processing continues.
Operator Response: None.

IFD179I NO UCB FOR ADDRESS ddd

Explanation: OLTEP has been asked to test device ddd. There is no UCB (unit control block) for this address.
System Action: OLTEP bypasses the device.
Operator Response: Probable user error. Make sure that ddd is the correct address for the device to be tested. If the address is wrong, enter the correct address when OLTEP next issues message IFD105D.
Problem Determination: Table I, items 1, 2, 4, 5a, 16, 29. Cancel the job, requesting a dump.

IFD200I TEST xxxxxxxx EXCEEDS AVAILABLE CORE SPACE

Explanation: The unit test specified in the xxxxxxxx field exceeds the size of the area allocated to the unit test.
System Action: Processing continues with the next OLT.
Operator Response: None.

IFD201I DEVICE DESCRIPTORS DO NOT MEET xxxxxxxx REQUIREMENTS

Explanation: The unit test xxxxxxxx specified in the test field contains device descriptors to be checked but no device has been entered in response to message IFD105D.
System Action: OLTEP terminates the test and reschedules the next test.
Operator Response: None.

IFD202I READ AN INVALID REP CARD

Explanation: An invalid REP statement was encountered during a load. A character was mispunched, punctuation was incorrect or the format was wrong.
System Action: The request to load the OLT is ignored.
Programmer Response: Probable user error. Correct the REP statement and replace the existing copy of the module by running OLTEP's editor program again.
Problem Determination: Table I, items 23, 29.

IFD203I EOF OCCURRED BEFORE READING END CARD

Explanation: While processing a load request, OLTEP detected an end-of-file before the logical end of the requested module. The module may have been incorrectly added or replaced on the library.
System Action: The request to load the requested module (OLT) is ignored.
Programmer Response: Probable user error. Obtain a complete copy of the requested module and replace the existing copy by running OLTEP's editor Program.

IFD205I I/O ERROR WHEN LOADING TEST

Explanation: A permanent I/O error occurred while attempting to load a module.
System Action: The module is not loaded.
Operator Response: Attempt to run the test again.
Problem Determination: Verify that the drive that the library is mounted on has not been experiencing I/O failures. Table I, items 2, 4, 25c, execute the IEHDASDR program with the DUMP option, using the address obtained from item 25C, 29.

IFD210I ROUTINE xxxx BYPASSED, MANUAL INTV REQUIRED

Explanation: OLT program routine xxxx requires manual intervention by the operator, but the manual intervention option (MI) was not specified in the test definition.
System Action: Routine xxxx is not executed.
Operator Response: If you wish to run routine xxxx, the next time you reply to message IFD105D specify routine xxxx in the test field and MI in the option field of your test definition.

IFD212I CANNOT DATA PROTECT DEVICE ddd

Explanation: OLTEP attempted unsuccessfully to verify the class and type of device ddd.
System Action: OLTEP issues message IFD120D.
Operator Response: Respond to message IFD120D as indicated below:
If OLTEP is permitted to destroy all data stored on the device, enter REPLY xx,'YES'.
If data on the volume must be preserved, enter REPLY xx,'NO'. OLTEP will bypass testing the device.

IFD227I INSUFFICIENT SUPPORT FOR xxxxxxxx-yy

Explanation: The OLT requires program support not contained in this version of OLTEP.
System Action: The OLT is not scheduled. The next OLT is scheduled.
Operator Response: None.

IFD231I xxxxxxxx CANNOT RUN ON ddd

Explanation: The unit test specified in the xxxxxxxx field can not be run on device ddd. The device descriptors associated with the device are not compatible with those required by the unit test.
System Action: Processing continues with the next unit test.
Operator Response: None.

IFD243D ARE SHARED DEVS USED BY OTHERS, REPLY YES OR NO

Explanation: This message is requesting the CU TEST user to verify that all devices shared by this system with other systems (the devices listed in message IFD244I) are logically disconnected from other sharing systems. (As the result of CDS checks on the listed devices, it was assumed that these devices are shared.)
System Action: A 'NO' response allows testing to proceed normally. A 'YES' response will send a return code '08' to the online test (OLT), and OLTEP will reject that particular CU TEST request.
Programmer Response: Verify that all devices listed in message IFD244I are logically disconnected from (offline to) other sharing systems. Reply 'NO' only if all devices are disconnected from sharing systems. Reply 'YES' if there are devices which cannot be disconnected or if there are devices having a shared status of available.

IFD244I THE FOLLOWING CU TEST DEVS ARE
{ASSUMED CPU SHARED;}
{ONLINE, NOT BTAM; }
ddd,ddd,...,ddd

Explanation: The message indicates one of the following:
1. ASSUMED CPU SHARED
   The listed devices are assumed to be shared with another system. (The CDS for the device indicates the device is shared, or the lack of a CDS forces the CU TEST function to assume the device is shared.)
2. ONLINE,NOT BTAM
   The devices in the list resulting were found to be online and not under BTAM control; therefore, the devices could not be tested.

In any case, ddd,ddd,...,ddd indicates the list of shared or online devices. The devices listed apply only to the associated message text.
System Action: The system action depends on the text of the message:
In case 1, the list of shared devices is followed by message IFD243D, requesting the operator to examine the shared devices and make sure that they are disconnected from the sharing system(s).
In case 2, the CU TEST facility is not honored for online, non-BTAM devices. A return code of 08 is sent to the OLT.
Operator Response: In case 1, logically disconnect any shared devices from sharing systems, and reply to message IFD243D. In case 2, vary the non-BTAM devices offline, and reenter the D/T/O/ OLTEP command.

IFD255I message

Explanation: This is a communications message from an on-site C.E. to the remote specialist, or vice versa.
Operator Response: If applicable, respond as indicated in the message text.

IFD313I TEST CANCELLED, ATTEMPTED TO WRITE ON A FILE PROTECTED DEVICE

Explanation: An attempt was made to write on a file-protected device.
System Action: The unit test is terminated. Processing continues with the next unit test.
Operator Response: None.

IFD327I EXT =

Explanation: The EXT option is in effect.
System Action: Processing continues.
Operator Response: None.

IFD394D ENTER DEV EQUATES/END/CLR

Explanation: The user has entered "EQU" to enter CDS equates in the CDS equate resident table, end CDS equating or clear the CDS equate resident table, or a combination of any of these, separated by a slash.
System Action: OLTEP waits for the operator to reply.
Operator Response: Enter the desired reply.
Example: REPLY xx,'CLR/181 = 182/END' clears the CDS equate resident table, equates 182 to 181, indicates the end of the table, and requests a printout of the resident table.

IFD395I ACTIVE EQUATES SELECTED
IFD395I { text }
IFD395I {NONE}

Explanation: This message is issued when END is entered in reply to message IFD394D or after IFD398I is issued. The message displays the contents of the CDS equate resident table.
System Action: OLTEP issues message IFD396D for confirmation of equates.
Operator Response: Reply to message IFD396D.

IFD396D ARE EQUATES CORRECT? YES/NO

Explanation: This message follows message IFD395I and allows verification of equated device addresses and normal completion of equate functions.

System Action: OLTEP waits for the operator to reply.
Operator Response: Determine if any more equates are to be entered. If CDS equating is complete and OLTEP is to be resumed, enter REPLY xx,'YES'. If updates or changes are to be made to the CDS equate resident table, enter REPLY xx,'NO' and message IFD394D will be issued.

IFD397I INVALID ENTRY text

Explanation: An entry made in response to message IFD394D was invalid. The entry field in error will appear in the 'text' portion of the message.
System Action: OLTEP re-issues message IFD394D for a new reply.
Operator Response: Enter the correct reply to message IFD394D.

IFD398I EQUATED DEVICES EXCEED 16

Explanation: Sixteen valid entries were already in the CDS equate resident table when an attempt was made to enter more.
System Action: OLTEP stops entries to the resident table, issues message IFD395I to display the contents of the resident table, and issues message IFD394I to allow corrections or verification.
Operator Response: Reply to message IFD394I.

IFD399I EQUATED DEV ADDRESS AND $CUTEST ARE MUTUALLY EXCLUSIVE

Explanation: An OLT has issued the $CUTEST macro when equated device addresses were in the table.
System Action: A non-support return code is returned to the OLT.
Operator Response: Attempt to rerun the test section with the equate table empty.

IFD400I TP LINE CONNECTION, LINE = xxxxxxxx, TERMINAL = yyyyyyyy

Explanation: OLTEP is testing remote teleprocessing equipment, and the above message is the output for each TP test where:
LINE = address of the line
TERMINAL = symbolic name of the terminal.
System Action: Processing continues.
Operator Response: None.

IFD405I OPERATOR CALL REQUIRED, TELEPHONE NUMBER NOT IN CDS

Explanation: OLTEP is testing remote teleprocessing equipment. The telephone number for the terminal to be tested is not in the configuration data set; therefore, the operator must establish the line connection by placing a call to that terminal.
System Action: If the call has not been made within 4 minutes, the line connection terminates with message IFD407I.
Operator Response: If the telephone number is known, place a call to the terminal.

IFD406I OPERATOR CALL TERMINAL ON NUMBER xxx

Explanation: OLTEP is attempting to test a terminal. To continue with the line connection, the operator must call the terminal.
System Action: If the call has not been made within 4 minutes, the line connection terminates with message IFD407I.
Operator Response: Place a call to the terminal on the number displayed.

IFD407I OPERATOR CALL NOT COMPLETED WITHIN TIME LIMITS

Explanation: OLTEP is attempting to test a terminal, and the operator has been requested to call that terminal. The call was not placed to terminal within the allotted time (4 minutes) after message IFD405I or IFD406I appeared.
System Action: Line connection for that terminal is not made.
Operator Response: None.

IFD412I CCW CHAIN TERMINATED ON xxx

Explanation: The displayed CCW chain, used for a line connection, has terminated due to an I/O error.
System Action: The line connection is not made, and message IFD137I is issued with sense and CSW status.
Operator Response: Make sure that the terminal is operational and retry the procedure.

IFD413I REQUIRED CDS POINTER NOT PRESENT

Explanation: The OLT did not specify the configuration data set for this device.
System Action: Line connection is not made.
Operator Response: None.

IFD415I REQUIRED DATA INCORRECT OR MISSING IN CDS

Explanation: One of the following CDS errors occurred:
- an invalid CCW line connection code between 00 and 08
- the set mode bytes were not present and the connection code required them
- the number of dial digits exceeds 20
- the dial digit count equals zero
- the terminal was not symbolically named

System Action: The line connection is not made.
Programmer Response: Correct the CDS file to include all the necessary information.

IFD450I RTN xxx,ID yy, AT nnnnnnnn, RC##

Explanation: This message is issued by OLTEP whenever an OLT returns to OLTEP when:
- The TRACE option is active in response to message IFD105D.
- Return code handling is active (an * will appear in front of the message text).

In the message text xxx is the routine number, yy is the last two digits of the OLTEP module name in the user's request, nnnnnnnn is the location branched to for service in the OLT, and ## is the return code.
System Action: Processing continues.
Operator Response: None.

IFD501I xxxxxxxx BYPASSED, INVALID TEST

Explanation: OLTEP has been asked to run an invalid test (xxxxxxxx). That test is being withdrawn from use.
System Action: OLTEP bypasses the test. Processing continues with the next OLT.
Operator Response: None.

IFD502I NO DEVICE DESCRIPTORS FOR DEVICE

Explanation: The operator entered an OLT for which there was no CDS (configuration data set).
System Action: Message IFD105D is issued.
Operator Response: Respond to message IFD105D.

IFD503I HIGHEST SELECTED ROUTINE NOT FOUND

Explanation: In response to message IFD105D, the operator entered 180/2400A.1-9//. Either the routine did not exist, or before completion of these routines the operator terminated the OLT.
System Action: Message IFD105D is issued.

Operator Response: Respond to message IFD105D.

IFD505I TIME INTERVAL EXPIRED, NO LINE ACTIVITY

Explanation: One of the following conditions has occurred:
1. The RETAIN/370 Interface has been activated successfully, but no line activity to or from the remote terminal has occurred for ten minutes. The interface must be reactivated before it can be used.
2. An unsuccessful attempt was made to activate the RETAIN/370 Interface. (That is, message IFD163I was not issued within ten minutes after the command was entered.)

System Action: In the second case, OLTEP terminates the RETAIN/370 Interface. In both cases, OLTEP issues message IFD105D.
(Note: Sometimes the system enters a two-minute wait state after issuing message IFD505I. If that happens, wait for OLTEP to issue this message again and then respond as indicated below).
Operator Response: In the first case, do one of the following:
- Attempt to reactivate the RETAIN/370 Interface by entering REPLY xx,'REI' in response to message IFD105D. If you receive message IFD163I you may then resume testing from the point where the interface was interrupted.
  To resume testing with the RE option, enter REPLY xx,'//RE/' in response to message IFD105D. (You must reenter the option, even if it had already been specified in the previous test definition. To resume testing without the RE option, enter REPLY xx,'///' in response to message IFD105D.
- To resume testing from the point where the RETAIN/370 Interface was interrupted without using the RETAIN/370 feature of OLTEP, enter REPLY xx,'///' in response to message IFD105D.
- To define a new test or terminate the job step without first trying to reactivate the RETAIN/370 Interface enter REPLY xx,'dev/test/opt/' or REPLY xx,'cancel' in response to message IFD105D.

In the second case, do one of the following:
- Attempt to activate the RETAIN/370 Interface again by entering REPLY xx,'REI' in response to message IFD105D.
- To proceed without the RETAIN/370 feature, enter REPLY xx,'dev/test/opt/' or REPLY xx,'CANCEL' in response to message IFD105D.

IFD900I INVALID INPUT, REJECTED - text

Explanation: This message is issued by the OLTEP editor, the punch module or the loader module. The message is followed by the 80-byte record it was attempting to read in the 'text' portion of the message.
System Action: If issued by the editor or punch, the system rejects the card as an input data record and processing continues. If issued by the loader, the load function is discontinued.
Operator Response: If issued by the editor or punch, correct the card in error and resubmit the job. If issued by the loader (while running OLTEP), execute the IEHDASDR program to obtain a copy of the module from the private library and notify the system programmer.

IFD901I ddn DDCARD FAILED TO OPEN ****ERROR****

Explanation: This message is issued by the OLTEP editor and punch modules. A data set could not be opened. The ddname which failed for OPEN is identified in the message text.
System Action: The job is terminated.
Operator Response: Probable user error. Correct the JCL and resubmit the job.

IFD902I mod WAS CORRECTLY { ADDED / PUNCHED / REPLACED }

Explanation: Module mod was either replaced or added to the data set or was correctly punched from the data set.
System Action: Processing continues.
Operator Response: Save the output listing for further information.

IFD903I xxxxxxxx WAS NOT STORED ***ERROR***
[{ NO SPACE LEFT IN DIRECTORY / PERMANENT I/O ERROR }]

Explanation: The OLTEP editor attempted to update the PDS directory via the STOW macro instruction, but an error occurred.
System Action: The job is terminated.
Operator Response: Notify the system programmer.

IFD904I SEQ ERR EXP = yyyy RECD = zzzz MODULE mod NOT STORED

Explanation: The OLTEP editor found a card sequencing error in the input object deck. The expected (yyyy) and received (zzzz) card sequence numbers, and the module name (mod) containing the sequence error are included in the message text.
System Action: The module is not stored. Processing continues with the next module.
Operator Response: Correct the sequence error and resubmit the module for editing.

IFD905I mod MODULE NOT ON DATA SET, PUNCH BYPASSED

Explanation: A punch request could not be processed because module mod does not exist on the data set.
System Action: Module mod is not punched.
Programmer Response: Execute the IEHLIST utility program to determine if module mod is on the data set and save the listing.

IFD906I REP ERR mod BYPASSED - text

Explanation: The OLTEP editor found an error in a REP card for module (mod). The failing card is listed in the 'text' portion of the message.
System Action: Module mod is not stored. Processing continues.
Operator Response: Correct the failing card and resubmit the job.

IFD907I THE FOLLOWING MODULES WERE DIRECTED TO THE:
{ OLT AND LOCAL CDS DATA SET / SYMBOLIC (REMOTE) CDS DATA SET }

Explanation: This message indicates which data set received modules from the OLTEP editor.
System Action: Processing continues.
Operator Response: None.

IFD908I ORDER ERROR mod BYPASSED-text

Explanation: The input to the OLTEP editor contained an ordering error. Examples: A REP card was encountered after an RLD card; a TEXT card was encountered after a REP card. The card out of order will appear in the 'text' portion of the message.
System Action: Module mod is not stored.

Operator Response: Correct the order error and resubmit the deck for editing.

IFD909I { **SYS1.LPALIB** / **SYS1.LINKLIB** / **SYS1.SVCLIB** } **CANNOT BE USED FOR ONLINE TEST LOAD MODULES, JOB TERMINATED**

Explanation: This message is issued by the OLTEP editor when an invalid library is specified in the data definition (DD) statement.
System Action: The job is terminated.
Operator Response: Notify the system programmer.

IFD911I CANNOT LOAD MODULE mod, INVALID CONTROL RECORD.

Explanation: This message is issued by the OLTEP loader when an invalid control record is read. Example: non-ESD, TXTHDR, RLD, REP, or END card was read.
System Action: OLTEP bypasses this OLT and schedules the next OLT for execution.
Operator Response: Contact the system programmer.
Programmer Response: Execute the IEHDASDR utility program to obtain a dump of the bad module. If possible, re-edit the module.

Component Name	IMC
Program Producing Message	Service Aids: IMCJOBQD.
Audience and Where Produced	For Programmer: SYSPRINT data set. For Operator: console.
Message Format	IMCnnnI text (in SYSPRINT) id IMCnnns text (on console) id Message reply identification (absent if operator reply not required). nnn Message serial number. s Type code: A Action; operator must perform a specific action. D Decision; operator must choose an alternative. I Information; no operator action is required. text Message text.
Comments	None.
Problem Determination	Refer to fold-out Tables I and II at the back of this publication for problem determination instructions.

IMC000A ENTER O = xxxD,Q = yyy(,S) OR PRESS INTERRUPT KEY FOR O = 00E,Q = 191

Explanation: The program is requesting that a device identification command be entered through the console keyboard, or that default device assignment be specified by the absence of a console entry.
System Action: The program stops processing until the operator enters a reply.
Operator Response: If input and output devices are to be specified, enter a device identification command. If the default assignments of address 00E for output and address 191 for input are satisfactory, depress the external interrupt key without making a console entry.

IMC001A SPECIFY SELECT PARAMETERS

Explanation: The SELECT parameter has been included in a device identification command and the program is requesting that the parameters for a selective job queue dump be entered through the console.
System Action: The program stops processing until the operator enters a reply.
Operator Response: Enter the desired dump parameters.

IMC002A COMMAND ERROR-ENTER QDUMP PARAMETERS

Explanation: A syntax error was detected in a command entered through the console.
System Action: The program stops processing until the operator enters a reply.
Operator Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 13, 29.

IMC003A QUEUE NOT FOUND ON SPECIFIED DEVICE-ENTER QDUMP PARAMETERS

Explanation: The format 1 data set control block (DSCB) for SYS1.SYSJOBQE was not found in the VTOC of the volume mounted on the device indicated in the device identification command entered through the console; or, if the default parameters were utilized, in the VTOC of the volume mounted on device 191.
System Action: The program stops processing until the operator enters reply.
Operator Response: Probable user error. If necessary, mount the correct volume on the desired device. Enter a device identification command giving the current output and input addresses.
Problem Determination: Table I, items 2, 13, 29.

IMC004I QDUMP COMPLETED

Explanation: Processing of the QDUMP operation is now complete.
Operator Response: None.

IMC005I {SPECIFIED QUEUE(S) EMPTY FOR QID(S) / SPECIFIED QUEUE IS EMPTY}

Explanation: In VS1, the program was requested to dump the logical tracks assigned to a specific work queue for the user identified by QID, or for a QID = 0, to search a particular queue for a given job name. Examination of the minor queue control record (QCR) associated with the QID(s) reveals no records resident in the queue.
In VS2, the second form of the message text will appear. The program was requested to dump the logical tracks assigned to a specific work queue, or search a particular queue for a given job name. Examination of the minor queue control (QCR) associated with the queue reveals no records in the queue.

System Action: The program dumps the corresponding minor QCR, issues message IMC005I to the console, and reissues message IMC001A.
Operator Response: Additional selective dump parameters may be entered, or the operation may be concluded.

IMC006I THESE JOBS NOT FOUND
jobname 1
jobname 2, etc.

Explanation: The program found no logical tracks assigned to the listed job or jobs. The search was restricted to the specified queue control record (QCR) if the QCR = parameter was entered in combination with the JOBNAME = parameter and, if so, the associated QCR is dumped. If the QCR = parameter was omitted, all input work queues were searched, and all associated QCRs were dumped.
System Action: The program reissues message IMC001A.
Operator Response: Additional selective dump parameters may be entered, or the operation may be concluded.

IMC007E K ddd, {SCRTCH / ser} /JQDUMP

Explanation: K indicates that the volume on tape drive ddd is to be demounted and saved.
- If the volume has standard labels, ser indicates the volume serial number, otherwise SCRTCH appears in the message.
- JQDUMP is the data set name given to the data set created by IMCJOBQD if the volume has labels.

System Action: The program continues processing and will request a new volume if more data is to be written.
Operator Response: Demount the tape and save it for later processing.

IMC008A M ddd, {SCRTCH / SLTAPE} /JQDUMP

Explanation: M indicates that a tape is to be mounted on tape drive ddd.
- If SCRTCH appears in the message a non-labeled tape or a labeled tape that has labels which can be overwritten with data is to be mounted.
- If SLTAPE appears in the message a standard labeled tape is to be mounted.

JQDUMP is the name of the data set created by IMCJOBQD.
System Action: The program waits for the device ddd to be made ready.
Operator Response: Mount the requested tape and ready the drive.

IMC009A ENTER TODAY'S DATE IN THE FOLLOWING FORM YYDDD

Explanation: The program needs the current date to verify the expiration dates on standard labeled tape. The date must be entered in the form yyddd with no blanks or special characters embedded. The date in the form yyddd has the following meaning:
yy-represents the last two digits of the current year.
ddd- represents the Julian form of the current day with leading zeros if the date is less than three digits.
System Action: The program waits for the operator's reply.

IMC010I TAPE IS STANDARD LABELED, DSN = JQDUMP

Explanation: The tape just created has standard labels with the data set name JQDUMP.
System Action: Processing continues.
Operator Response: None.

IMC011D E ddd,ser,dsn

Explanation: E indicates that the program intended to write on the tape on drive ddd; however, the expiration date for the data set dsn on the volume, ser, has not occurred.
System Action: The program waits for the operator's reply.
Operator Response: Enter REPLY xx,'U' if the expiration date is to be ignored and the tape written on. Enter REPLY xx,'M' if the expiration date is to be honored and the tape not written on.

IMC012E TAPE PROTECTED FROM USE

Explanation: One of the following will cause this message to be given:
- The tape that was to be written on is security protected.
- The expiration date for the data set on the mounted tape has not occurred and the operator replied M to message IMC011D.

System Action: The program continues processing and will eventually request a new tape.
Operator Response: Wait for mount message IMC008A.

IMC013A ddd, INT REQ

Explanation: IMCJOBQD tried to write on the device at unit address ddd, but the device was not ready.
System Action: The program waits until the device is ready for output operations.
Operator Response: Ready the device. If the output is to tape, make sure that the tape reel has a file protect ring. If the problem recurs, call IBM for programming support.

IMC014E TAPE HAS USASCII LABELS

Explanation: The tape mounted for output has USASCII standard labels.
System Action: IMCJOBQD will reject the tape and will request a new tape for its output.
Operator Response: Wait for the mount message.

IMC015E MAX LENGTH FOR QID PARAMETERS (5) EXCEEDED

Explanation: In response to message IMC001A, the specified QID numbers exceeded five decimal digits.
System Action: The program reissues message IMC001A and waits for the operator to reply.
Programmer Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

IMC016E MAX NUMBER OF QID PARAMETERS (4) EXCEEDED

Explanation: In response to message IMC001A, more than four QIDs were entered.
System Action: The program reissues message IMC001A and waits for the operator to reply.
Programmer Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

IMC016I PERMANENT I/O ERROR ON ddn -[EXECUTION TERMINATED]

Explanation: An I/O error occurred on the device assigned to the data set specified in the DD statement indicated by ddn, and a DCB SYNAD routine has been entered. Following the message, the contents of the SYNADAF buffer will be printed on the device defined by the SYSPRINT DD statement.
In the case of an I/O error on OSJQDIN (the job queue data set), the message can result from one of these:

- An I/O error or wrong length record was encountered while reading the master queue control record.
- IMCOSJQD found an invalid TTR in the queue being processed.
- IMCOSJQD encountered an I/O error or wrong length record in the queue being processed and a full dump was not requested.
- A full job queue dump was requested, but IMCOSJQD encountered 20 I/O errors or 20 wrong length records in succession.

If the error indicated is for ddname OSJQDIN, messages with further details on the errors can be found in the dump produced for ddname OSJQDOUT. Additional information can be obtained in *OS/VS Service Aids System Reference Library*, under program IMCOSJQD.
System Action: IMCJQDMP execution is terminated unless the I/O error occurred on the job queue data set being dumped. If the I/O error occurred on the queue data set being dumped one of these will occur:
- If the options are being entered from the system console, message IMC001A will be issued to allow further dump options to be entered.
- If the dump options are being entered from the input stream (SYSIN), IMCOSJQD will continue processing with the next control option.

Programmer Response: Check the indicated DD statement to ensure that the proper device is specified, and resubmit the job.
Problem Determination: Table I, items 2, 13, 29.

IMC017E INVALID OUTPUT CLASS SPECIFIED

Explanation: The output class specified in response to message IMC001A was outside the range A-Z and 0-9.
System Action: The program reissues message IMC001A and waits for the operator to reply.
Programmer Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

IMC017I FILE {OSJQDIN / OSJQDOUT} CANNOT BE OPENED

Explanation: The required input (job queue) and/or output DD statements are missing or unrecognizable; therefore, the corresponding data control blocks (DCBs) cannot be opened.
System Action: IMCOSQD execution is terminated.
Programmer Response: Probable user error. Supply the correct OSJQDIN and OSJQDOUT DD statements and run the job again.
Problem Determination: Table I, items 1, 2, 13, 29.

IMC018E INVALID INPUT CLASS SPECIFIED

Explanation: The input class specified in response to message IMC001A was outside the valid range A-O.
System Action: The program reissues message IMC001A and waits for the operator to reply.
Programmer Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

IMC019E INVALID PARAMETER COMBINATION - NON-ZERO QID WITH QCR = FREE, QCR = CLASS = OR JOBNAMES PARMS

Explanation: A non-zero QID was specified with other than HOLD or SYSOUT = . (Only HOLD and SYSOUT = are allowed.)
System Action: The program reissues message IMC001A and waits for the operator to reply.
Programmer Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

IMC020A ENTER INITIATOR PROC NAMES FOR WHICH SWADS IS TO BE DUMPED

Explanation: This message is in response to a full dump request (no SELECT specified). The program is requesting the operator to enter the initiator procedure names for which SWADS is to be dumped.
System Action: The program suspends processing until the operator enters a reply.
Operator Response: Enter the initiator procedure names for the SWADS you want dumped.

IMC021I UNABLE TO FIND SWADS FOR ppp.partid

Explanation: The program cannot locate the procedure name in the VTOC (volume table of contents) of the user-specified device. Because SWADS is a temproary data set, the entry in the VTOC may have been scratched to obtain work space. An incorrect device address may have been specified for the mount message, IMC022A.
System Action: The program continues to process the next SWADS, if any, or terminates the dump.
Operator Response: If an incorrect device address was specified, re-IPL the stand-alone program and supply the correct device address.

IMC022A M ,ser,,ppp.partid AND ENTER DEVICE ADDRESS OR ENTER CANCEL

Explanation: When IMCJOBQD completes scanning and table-building, the program issues this message, requesting the operator to mount the disk pack with the indicated volume serial number for the specific SWADS.
System Action: The program waits for the operator to reply.
Operator Response: Either (1) mount the disk pack with the requested volume serial number and enter its 3-digit hexadecimal device address of the device to dump the named SWADS, or (2) enter C or CANCEL to suppress dumping of that SWADS.

IMC023E QID SPECIFIED - - EXCEEDS SYSTEM VALUD, PROCESSING SUSPENDED

Explanation: The maximum value for a QID specification was exceeded. This value is the number of users in the SYS1.UADS data set.
System Action: The program suspends processing of the queue for the invalid QID, but continues processing with other QIDs, if specified.
Operator Response: Obtain the maximum QID value from the system programmer or from the SYS1.UADS, and reenter the QID with a value less than or equal to the maximum number of users when IMC001A is reissued.

IMC024E MAX LENGTH FOR JOB NAME (8) EXCEEDED

Explanation: A job name specified in response to message IMC001A exceeded eight characters.
System Action: The program reissues message IMC001A and waits for the operator to reply.
Operator Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

IMC025E MAX NUMBER JOB NAMES (4) EXCEEDED

Explanation: The maximum number of job names that can be entered in response to message IMC001A is 4. The program has detected a number in excess of that limit.
System Action: The program reissues message IMC001A and waits for the operator to reply.
Operator Response: Probable user error. Reenter the command correctly.
Problem Determination: Table I, items 2, 4, 29.

Table I

If the problem recurs, follow the problem determination aids specified by the associated message or code before calling IBM for support:

1. Make sure that MSGLEVEL=(1,1) was specified in the JOB statement.
2. Save the console sheet from the primary console. In systems with Multiple Console Support (MCS), save a copy of the hard copy log.
3. Save the job stream associated with the job.
4. Save the system output (SYSOUT) associated with the job.
5. Make sure that the failing job step includes a:
   a. SYSABEND DD statement.
   b. SYSUDUMP DD statement.
   c. PL1DUMP DD statement.
6. Make sure that the PARM parameter of the EXEC statement specifies:
   a. MAP
   b. LIST
   c. DIAG
   d. MSG=AP
   e. CORE, if applicable
   f. XREF
   g. DUMP
7. Execute the LISTIDR function of the A/HMBLIST service aid program to obtain a list of all members with a PTF or local fix, and save the output. Execute the program against the:
   a. SYS1.LINKLIB data set.
   b. SYS1.SVCLIB data set.
   c. library containing the program that issued the message.
8. Execute the IMCJOBQD service aid program to obtain a formatted copy of the contents of the SYS1.SYSJOBQE data set.
9. Execute the IMCJOBQD service aid program to obtain a formatted
   a. an object module listing, specifying the LISTOBJ function.
   b. a load module map and cross-reference listing, specifying the OUTPUT=BOTH option of the LISTLOAD function.
10. Have a copy of the Message Control Program (MCP) available.
11. Execute the A/HMDSADMP service aid program to dump the contents of real storage and page data sets on magnetic tape.

    After restarting the system, execute the GO function of the A/HMDPRDMP service aid program to print the real storage portion of the dump tape produced by A/HMDSADMP.

    Save both the tape from A/HMDSADMP (should further information from the tape be required) and the listing from A/HMDPRDMP.
12. Execute the SEREP program, and save the resulting output.
13. Save all the associated output.
14. In the normal response to this message, the programmer/operator was requested to execute a specific program. Save all output from that program.
15. Save the program listing associated with the job.
16. Save the dump.
17. Have the system generation (SYSGEN) output available from
    a. Stage I
    b. Stage II
18. Execute the IFCEREP0 service aid program, specifying PARM=(N), to dump the SYS1.LOGREC data set. Save the resulting output.
19. Save the assembly listing associated with the job.
20. Save the control cards associated with the job.
21. Save the compiler output associated with the job.
22. Save the source input associated with the job.
23. Save the source program listing associated with the job.
24. Run OLTEP diagnostics for the problem device and save the output.
25. Execute the IEHLIST system utility program to obtain a list of the
    a. volume table of contents of the associated volume, specifying the FORMAT option.
    b. volume table of contents of the associated volume, specifying the DUMP option.
    c. directory of the associated data set.
    d. the system catalog.
26. Execute the IEBPTPCH data set utility to
    a. print the directory of the applicable data set.
    b. print the applicable data set.
    c. print the applicable member.
    d. print the applicable procedure.
27. Have the linkage editor/loader map available.
28. Save the associated volume.
29. Contact IBM for programming support.
30. Contact IBM for hardware support.

Table II

GTF FOR PROBLEM DETERMINATION

Format 1: Tracing without prompting for event keywords.

Before reproducing the problem, have the system operator issue a START GTF command specifying tape output, MODE=EXT and TIME=YES. In response to message A/HHL100A, he should type TRACE=opt, where opt is the trace option keyword indicated for the particular message or code, within the text of his reply.

When data for the problem has been recorded, run the A/HMDPRDMP service aid program using the EDIT statement to format the trace output, specifying DDNAME=(ddname of the trace data set).

Format 2: Tracing with prompting for event keywords.

Before reproducing the problem, have the system operator issue a START GTF command specifying tape output, MODE=EXT and TIME=YES. In response to the message A/HHL100A, he should specify the trace option keywords indicated for the associated message or code within the text of his reply. Then, in response to the message A/HHL101A, he should specify the event keywords also indicated with the associated message or code.

When data for the problem has been recorded, run the A/HMDPRDMP service aid program using the EDIT statement to format the trace output, specifying DDNAME=(ddname of the trace data set).

Format 3: Specialized tracing action.

Before reproducing the problem, have the system operator issue a START GTF command specifying tape output, MODE=EXT and TIME=YES. In response to message A/HHL100A, he should type 'TRACE=SYS,USR'. The DD statement for a data set in error should specify DCB=DIAGNS=TRACE.

When data for the problem has been recorded, execute the EDIT function of A/HMDPRDMP specifying the options SYS and USR=FFF.

Figure 4. Problem Determination

OS/VS Message Library:
Service Aids and OLTEP Messages

GC38-1006-2

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