CA Hyper-Buf® VSAM Buffer Optimizer

Message Reference Guide

r11.5

CA Technologies Product References

This document references the following CA Technologies products:

- CA Hyper-Buf® VSAM Buffer Optimizer (CA Hyper-Buf)

Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At http://ca.com/support, you can access the following resources:

- Online and telephone contact information for technical assistance and customer services

- Information about user communities and forums

- Product and documentation downloads

- CA Support policies and guidelines

- Other helpful resources appropriate for your product

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Contents

Chapter 1: Introduction

This document introduces CA Hyper-Buf and provides an overview of the product, installation instructions, and its features. You should review this guide as well as the CA Hyper-Buf User Guide delivered on the installation tape.

CA Hyper-Buf improves the performance of z/OS VSAM application processing by dynamically improving buffer utilization. Reduction of response time, elapsed job time, and I/O rate is the end result of overriding normal application buffering, automatically determining the optimum number of buffers, and through the exploitation of shared buffer pools in DFSMSdfp known as Local Shared Resources.

Chapter 2: Messages

This section contains messages in alphanumeric order issued by CA Hyper-Buf® VSAM Buffer Optimizer (CA Hyper-Buf).

This section contains the following topics:

GSRP Messages

GSRP157E

UNABLE TO ACCESS INPUT DATA (0008-0048)

Reason:

Attempting to read the active SYS1.MANx files as input.

Action:

Use dumped SMF file as input into the report program.

GVB Messages

GVBMSGINDX - INVALID MESSAGE CALLED FROM routine name

Reason:

This message indicates that an internal processing error has occurred. The variable routine name is the name of an internal CA Hyper-Buf routine that made an invalid call to the message processing routine. Some error occurred, but the named routine did not specify the error correctly, and a real error message could not be printed. This is an internal error that requires assistance from CA Support.

Action:

Call CA Support.

GVB001I

INVALID COMMAND command RC=retcode

Reason:

An invalid command named by variable command was encountered. The return code from that command is specified by retcode.

Action:

Correct the named command and retry.

GVB100I

ddname HYPER-BUF for OS/390 CONTROL BLOCK INFORMATION

Reason:

ddname is the name of the DD being processed by CA Hyper-Buf OPEN.

Action:

None required. This message is supplied only if you request MSGLEVEL=10. This message is followed by two more GVB100I messages that display control block information that may be useful to CA Support.

GVB101E

module PROGRAM NOT FOUND

Reason:

A LOAD was issued for program module and the program was not found.

Action:

Make sure that the named module is in either JOBLIB/STEPLIB or in a linklist library.

GVB102I

ddname SKIPPED BECAUSE OF reason

Reason:

The data set represented by ddname is excluded from buffering because of reason. Reason is either AMPOVR or ACBOVR. Either the AMP parameters on the associated DD statement or the ACB buffer values are used instead of the CA Hyper-Buf calculated buffer values.

Action:

None required.

GVB103I

ddname   STRIPES=value

Reason:

The cluster identified by ddname contains greater than one stripe. The number of stripes is used as a multiplier in buffer calculations.

Action:

None required.

GVB103E

CSVDYLPA FAILURE - INITIALIZATION ABORTED

Reason:

CA Hyper-Buf initialization has failed due to a failure in issuing the CSVDYLPA macro to insert the CA Hyper-Buf into dynamic LPA. This message may be followed by message GVB688E which lists modules that failed because of a security failure.

System Action:

Initialization terminates with error messages. If message GVB688E is issued, then the modules listed must be permitted to the facility class CSVDYLPA.* for the initialization to be successful.

Action:

If message GVB688E is issued, then the modules listed must be permitted to the facility class CSVDYLPA.* for the initialization to be successful. See the section Define Security Profiles in the *Installation Guide* for further information about setting up the security requirements for CA Hyper-Buf. If message GVB688E is not issued, obtain a SYSUDUMP of the abending task and notify CA support.

GVB104I

ddname level EXCLUDED

Reason:

The data set represented by ddname is excluded from buffering by a rule in the specified level.

Action:

None required. Normal VSAM buffering is used for this file.

GVB105I

ddname BUFSP=value

Reason:

The cluster represented by ddname is opening with the CA Hyper-Buf calculated BUFSP of value.

Action:

None required.

GVB106I

variable SELECTED

Reason:

The value displayed for variable (MIN/MAX - BUFSP/BUFND/BUFNI) was selected for this OPEN because the calculated values exceeded the MIN-MAX range specified in the constraints.

Action:

None required. The file will use the displayed values instead of the calculated buffer values.

GVB107W

ERRORS EXIST IN CONTROL STREAM - MAXRC=rc

Reason:

GVBDBFON has discovered errors in the constraint file. The worst error return code is displayed as **rc**.

Action:

See message GVB115W and prompt GVB118I, which follow this message.

GVB108I

ddname MINBUFNI SELECTED=value

Reason:

The cluster represented by ddname is opening with MINBUFNI because the CA Hyper-Buf calculated value was less than the user specified minimum of value.

Action:

None required.

GVB109I

ddname MINBUFND SELECTED=value

Reason:

The cluster represented by ddname is opening with MINBUFND because the CA Hyper-Buf calculated value was less than the user specified minimum of value.

Action:

None required.

GVB110I

ddname MAXBUFSP SELECTED=value

Reason:

The cluster represented by ddname is opening with MAXBUFSP because the CA Hyper-Buf calculated value was greater than the user specified maximum of value.

Action:

None required.

GVB111I

ddname MINBUFSP SELECTED=value

Reason:

The cluster represented by ddname is opening with MINBUFSP because the CA Hyper-Buf calculated value was less than the user specified minimum of value.

Action:

None required.

GVB112I

ddname (cluster name) - ASSIGNED TO LSR POOL value.

Reason:

The cluster represented by ddname has been assigned to the LSR pool specified as value. Either the constraints specified LSR for this OPEN, or this OPEN is for RANDOM only, and the constraints did not specify NSR.

Action:

None required.

GVB113I

ddname MAXBUFND SELECTED=value

Reason:

The cluster represented by ddname is opening with MAXBUFND because the CA Hyper-Buf calculated value was greater than the user specified maximum of value.

Action:

None required.

GVB114I

ddname CUSHION EXCEEDED

Reason:

CA Hyper-Buf could not buffer this file because the user specified cushion value would be exceeded.

Action:

Specify a larger REGION for this job.

GVB115W

REPLY "Y" TO PROCEED OR "N" TO TERMINATE

Reason:

Errors exist in the constraints supplied to GVBDBFON.

Action:

Reply "Y" to GVB118I if you want CA Hyper-Buf to activate with the errors; reply "N" if you do not want CA Hyper-Buf to activate.

GVB116I

ddname MAXBUFNI SELECTED=value

Reason:

The cluster represented by ddname is opening with MAXBUFNI because the CA Hyper-Buf calculated value was greater than the user specified maximum of value.

Action:

None required.

GVB117I

HIPERSPACE ALLOCATION FAILED

Reason:

LSR pool allocation was successful for the region buffers only. Buffers may not be backed up in hiperspace.

Action:

This message is usually caused by over-commitment of ESTOR.

GVB118I

REPLY??

Reason:

This message is a WTOR that allows you to reply to the previous prompt message.

Action:

Reply "Y" or "N" to message GVB115W.

GVB119I

ddname LSR SETUP ERROR RC = n USING NSR (Rr = x)

Reason:

A problem was encountered using LSR, so NSR is being used instead. The reason code is n. One of the following reason codes is displayed:

- 1 Error in UPDTURP routine

- 2 DDE not found

- 3 HIPERSPACE failure -- data component

- 4 HIPERSPACE failure -- index component

values r and x are for CA Technologies Support.

Action:

Report the message and reason code to Technical Support.

GVB120I

REGION SIZE ADJUSTED BY nK to nK

Reason:

When DYNAMIC=YES is specified, this message confirm that the desired action was performed.

Action:

None required.

GVB121I

ddname SYSTEM EXCLUDE

Reason:

Informational only.

Action:

None required.

GVB124I

Tuning Selected - xxxxxx

Reason:

This informational message identifies the type of tuning selected, where **xxxxxx** is either "SEQUENTIAL" or "RANDOM".

Action:

None required.

GVB130I

ddname BUFND=value BUFNI=value

Reason:

The cluster represented by ddname is opening with the specified BUFNI and BUFND value.

Action:

None required.

GVB191I

CA Hyper-Buf ACTIVATED

Reason:

Program GVBDBFON has successfully initialized CA Hyper-Buf. All VSAM OPENs are screened, and OPENs that meet your criteria are dynamically buffered.

Action:

None required.

GVB193E

module PROGRAM NOT FOUND IN library

Reason:

The named program module could not be found in library, where library is usually LINKLIST or LPA.

Action:

Check module library residency against the installation document.

GVB194I

CA Hyper-Buf DEACTIVATED

Reason:

Program GVBDBOFF has successfully deactivated CA Hyper-Buf. VSAM OPENs will no longer be screened, and all buffering is under the control of VSAM.

Action:

None required.

GVB195I

CA Hyper-Buf DISABLED

Reason:

CA Hyper-Buf has been disabled, but remains resident in the system. This message indicates that CA Hyper-Buf will not process jobs, but the open intercepts remain loaded in storage.

System Action:

Although CA Hyper-Buf remains in storage, no jobs are processed by CA Hyper-Buf until it is re-enabled by GVBDBFON.

Action:

If you want to re-enable CA Hyper-Buf, run the GVBDBFON job. If you want to remove the open hooks from system storage, run job GVBDBOFF.

GVB196E

INCORRECT PARAMETER FOR GVBDB001

Reason:

CA Hyper-Buf program GVBDB001 must have a parameter of "disable" or "enable" upon program invocation. Neither of these was specified.

System Action:

CA Hyper-Buf program GVBDB001 issues an error message and terminates with no action performed.

Action:

Specify a parameter of "disable" or "enable" for CA Hyper-Buf program GVBDB001 and rerun the job.

GVB197E

CA-HYPER-BUF IS NOT RESIDENT IN THE SYSTEM

Reason:

CA Hyper-Buf program GVBDB001 was invoked to perform an action, either disable or enable of CA Hyper-Buf, but found that CA Hyper-Buf was not resident in the system.

System Action:

CA Hyper-Buf program GVBDB001 issues an error message and terminates with no action performed.

Action:

CA Hyper-Buf must be activated with the ISPF option or program GVBDBFON.

GVB198E

CA-HYPER-BUF IS ALREADY ENABLED

Reason:

CA Hyper-Buf program GVBDB001 was invoked to enable CA Hyper-Buf, but the program found that CA Hyper-Buf was already enabled.

System Action:

CA Hyper-Buf program GVBDB001 issues an error message and terminates with no action performed.

Action:

None.

GVB199I

CA-HYPER-BUF IS ALREADY DISABLED

Reason:

CA Hyper-Buf program GVBDB001 was invoked to disable CA Hyper-Buf, but the program found that CA Hyper-Buf was already disabled.

System Action:

CA Hyper-Buf program GVBDB001 issues an error message and terminates with no action performed.

Action:

None.

GVB200I

CA-HYPER-BUF ENABLED

Reason:

CA Hyper-Buf program GVBDB001 was invoked to enable CA Hyper-Buf, and CA Hyper-Buf has been set enabled. Enabled is the same as active.

Action:

None. This is an informational message.

GVB210I

CA HYPER-BUF ALREADY INACTIVE

Reason:

An attempt to deactivate CA Hyper-Buf has been made but CA Hyper-Buf is already inactive.

Action:

None

GVB211I

CA HYPER-BUF IS ACTIVE

Reason:

An attempt to start CA Hyper-Buf has been made but CA Hyper-Buf is already active.

Action:

None

GVB212I

CA-HYPER-BUF IS ACTIVE

Reason:

Displayed by GVBSTAT if CA Hyper-Buf is active in your system.

Action:

None required.

GVB213I

CA-HYPER-BUF IS NOT ACTIVE

Reason:

Displayed by GVBSTAT if CA Hyper-Buf is not active in your system.

Action:

None required.

GVB214I

CA-HYPER-BUF ACTIVATION BEGINNING, CONSTRAINTS BEING LOADED FROM CNTLFILE

Reason:

CA Hyper-Buf is being activated by program GVBDBFON, and the constraints found in the CNTLFILE DD statement are being loaded into the system.

Action:

None. This is an informational message.

GVB215I

CA-HYPER-BUF ALREADY ACTIVE, CONSTRAINTS WILL BE REPLACED FROM CNTLFILE.

Reason:

Program GVBDBFON is being invoked to activate CA Hyper-Buf and has found that CA Hyper-Buf is already active. The constraints in the system will be replaced with the constraints found in the CNTLFILE DD statement.

Action:

None. This is an informational message

GVB300I

ddname BLOCKSIZE=nnnn BUFNO BEFORE=nn, AFTER=nn

Reason:

The number of QSAM buffers have been adjusted. The number of buffers before and after the adjustment are displayed.

Action:

None required.

GVB301I

ddname SKIPPED - BUFFER POOL ALREADY ALLOCATED

Reason:

The QSAM buffer pool has already been allocated and can not be changed.

Action:

None required.

GVB302I

dddddddd - LSR DIRECTED BY SPECIFIC //CAHBLSRn DD OVERRIDE

Reason:

File dddddddd was followed by DDNAME CAHBLSRn (where n is any valid non-blank character). This caused file dddddddd to be forced to LSR.

Action:

Informational only.

GVB303I

dddddddd - NSR DIRECTED BY SPECIFIC //CAHBNSRn DD OVERRIDE

Reason:

File dddddddd was followed by DDNAME CAHBNSRn (where n is any valid non-blank character). This caused file dddddddd to be forced to NSR.

Action:

Informational only.

GVB304I

dddddddd - LSR DIRECTED BY GENERIC //CAHBLSR DD OVERRIDE

Reason:

File dddddddd was forced to LSR because of a CAHBLSR DD statement.

Action:

Informational only.

GVB305I

ddddddd - NSR DIRECTED BY GENERIC //CAHBNSR DD OVERRIDE

Reason:

File ddddddd was forced to NSR because of a CAHBNSR DD statement.

Action:

Informational only.

GVB600E

COULD NOT RELEASE type LOCK - TERMINATING

Reason:

An unsuccessful attempt to free the lock specified by type. Processing can not continue.

Action:

Call CA Support. Retain job log, dumps, and any other supporting documentation that is produced.

GVB610E

GETMAIN FOR CSA FAILED - TERMINATING

Reason:

GVBDBFON loads the OPEN/CLOSE intercept code and the constraint table into the CSA. This usually requires approximately 4K of CSA.

Action:

Since the space was not available, processing can not continue. Dynamic buffering will NOT be activated. Investigate the shortage of CSA space. You may find an application that has exhausted CSA, or you may increase CSA through IEASYSxx.

GVB620E

COULD NOT OBTAIN type LOCK - TERMINATING

Reason:

The lock named by type could not be obtained. Continuation is not possible.

Action:

Investigate the owner of the specified lock.

GVB621E

#CAAT TABLE FAILURE = type – TERMINATING

Reason:

During initialization, an error occurred handing an internal table.

Action:

Verify that CAIRIM has been run and that no errors were issued.

GVB630E

COULD NOT FIND LLE FOR module

Reason:

During initialization, GVBDBFON searches the task LLE chain for certain initialization routines. The named LLE entry for module could not be found. The processing is terminated.

Action:

This message should not occur. Force a dump and call CA Support.

GVB640I

OPEN INTERCEPT LOADED AT address

Reason:

GVBDBFON has placed the OPEN intercept code at the specified address.

Action:

This is a normal message from GVBDBFON.

GVB641E

EXCLDD TABLE IS FULL

Reason:

You have exceeded the EXCLDD limit. A maximum of 150 DDNAMES can be excluded.

Action:

Review existing entries and delete any unused entries.

GVB642E

EXCLDD IS ONLY VALID AT SYSTEM LEVEL

Reason:

The EXCLDD constraint must only be specified at the system level.

Action:

Move the EXCLDD constraint to the system level.

GVB643E

DDNAME LENGTH IS INVALID

Reason:

A DDNAME has been entered that exceeds eight characters. DDNAME must be between 1 and 8 characters.

Action:

Correct the DDNAME.

GVB650E

DDNAME IS VALID ONLY WITHIN PROGRAM CONSTRAINTS

Reason:

You specified a DDNAME selector that is not a part of a PROGRAM level group.

Action:

Make sure that no other LEVEL cards are inserted between the DDNAME card and the previous PROGRAM card. The only cards that are legal between a PROGRAM and its corresponding DDNAME are:

■ CONSTRAINT control statements

■ Comment cards

■ Other DDNAME control statements

GVB651E

INVALID parameter

Reason:

The named parameter is invalid or unknown.

Action:

Check the spelling and syntax of the named command.

GVB652E

INVALID SMFID 127 < smfid < 256

Reason:

The ID you selected for SMF records is invalid. Valid user SMF record IDs are between 127 and 256.

Action:

Specify a valid number.

GVB653E

INVALID DDNAME SPECIFIED

Reason:

DDNAME did not start with an alphabetic character or was longer than eight characters.

Action:

Correct the name.

GVB654E

constraint IS VALID ONLY WITHIN DDNAME LEVEL

Reason:

The named constraint is valid only after a DDNAME level selector. The possibilities for constraint are SEQUENTIAL or RANDOM. These constraints are valid for PROGRAM/DDNAME levels only.

Action:

Remove the constraint or relocate it following the correct DDNAME level selector.

GVB655E

INVALID LSR POOL NUMBER SPECIFIED

Reason:

The LSR pool specified is beyond the range of allowable values for your system. LSR pools can range from 1 to 7 (DFP 2.2 and earlier) or from 1 to 15 (DFP2.3 and later).

Action:

Specify a correct value for SHRPOOL and restart CA Hyper-Buf.

GVB656E

HIPERSPACE VALUE NOT BETWEEN 1 AND 32767

Reason:

The specified HIPERSPACE value must be within the range 0 to 32768.

Action:

Specify a correct value for HIPERSPACE and restart CA Hyper-Buf.

GVB657E

SHRPOOL VALUE MUST BE GREATER THAN 0 AND LESS THAN 256

Reason:

Valid SHRPOOL values for your system are within the displayed range.

Action:

Specify a correct value for SHRPOOL and restart CA Hyper-Buf.

GVB658I

CA-HYPER-BUF IS CURRENTLY ACTIVE

Reason:

GVBSTAT has detected that CA Hyper-Buf is currently running on your system. GVBSTAT is also invoked from GVBDBFON.

Action:

None required.

GVB659I

program ASSEMBLY DATE yymmdd, TIME hhmm.

Reason:

GVBSTAT displays this information for selected programs.

Action:

None required.

GVB660I

LOADING ALL MODULES - STANDARD SEARCH ORDER

Reason:

GVBSTAT LOADs selected modules in order to determine the assembly date, time for GVB659I message. This message indicates that the modules are loaded from either JOBLIB, STEPLIB, or LINKLIST, using 'standard' search order.

Action:

If you have multiple copies of CA Hyper-Buf in different libraries, you can test the level contained in each library by adding an appropriate STEPLIB to GVBSTAT. Make sure that you are pointing to the library that you wish tested.

If the modules are not found in JOB/STEPLIB, or if JOB/STEPLIB is not specified, the LINKLIST is searched in the standard order. You can detect 'old' versions concatenated ahead of the current version by running GVBSTAT with NO JOB/STEPLIB.

If CA Hyper-Buf is ACTIVE when GVBSTAT is run, the GVBDYNBF assembly date/time information is taken from the CSA resident version of GVBDYNBF and NOT the JOB/STEPLIB or LINKLIST version. This 'validates' the module selected by GVBDBFON. If the displayed level is an 'old' version, check that GVBDBFON is NOT pointing to a library that contains an 'old' version.

GVB661I

DYNBUF DD UNUSABLE - LOADING GVBDYNBF FROM LINKLIST

Reason:

You did not include a DYNBUF DD card for GVBDBFON. GVBDBFON will load GVBDYNBF from LINKLIST, using standard search order.

Action:

None required.

GVB662I

CA-HYPER-BUF INITIALIZED ON day, date, at time

Reason:

If CA Hyper-Buf is active when you run GVBSTAT, this message is issued, and displays the time that this invocation of CA Hyper-Buf was started.

Action:

None required.

GVB663W

WARNING: SMS NOT ACTIVE ON YOUR SYSTEM

Reason:

Displayed by GVBDBFON if you have specified any of the SMS constraints in your control file, but SMS is not active on your system. This may be because you have not activated SMS or SMS initialization failed.

SMS constraints are processed, but has no effect until SMS is active.

Action:

None required.

GVB664E

MAXIMUM MACRO NESTING LEVEL EXCEEDED

Reason:

Displayed by GVBDBFON and GVBVALD if macro prototypes are nested more than 16 deep.

Action:

Observe the prototype nesting limit.

GVB665E

MACRO name NOT PREVIOUSLY DEFINED

Reason:

You have attempted to invoke prototype name, but that prototype has not been previously defined.

Action:

Define the macro prototype before invoking it.

GVB667E

INVALID MACRO INVOCATION

Reason:

The macro name is invalid (it is not supplied, it contains more than 44 characters, and so on).

Action:

Specify a valid macro name.

GVB668I

ddname ** TEST ** TEST ** TEST ** TEST (AFTER)

Reason:

The buffering values for DD ddname are TEST mode only. The displayed values are not used for this OPEN; however, they show the calculated values that would be used if TEST were not in effect.

Action:

None required. Informational.

GVB669E

CA-HYPER-BUF FOR MVS REQUIRES OS/390 SP2 OR SP3

Reason:

CA Hyper-Buf does not support OS/390 SP1.

Action:

None required.

GVB671I

CA-HYPER-BUF FOR OS/390 REFRESHED ON xx/xx/xx AT xx:xx:xx BY userid

Reason:

The HYPERBUF constraints have been refreshed. The date, time, and userid who performed the refresh are displayed.

Action:

None required.

GVB672W

DUPLICATE CONSTRAINT - REPLACING PREVIOUS DEFINITION

Reason:

This message is issued when a major entry (cluster, program, job) is duplicated in the constraint file.

Action:

Correct the constraint file by removing the duplicate entry.

GVB673E

RMODE MUST BE "ALL", "BUFF", "CB", OR "NONE"

Reason:

The RMODE keyword specified in the constraints file has an invalid value. The only acceptable value must be either "ALL", "BUFF", "CB", OR "NONE."

System Action:

If CA Hyper-Buf is already active, the constraints are not replaced, and processing continues with the prior constraints. If this message is the result of a CA Hyper-Buf start up, CA Hyper-Buf is not activated.

Action:

Correct the RMODE keyword specification and rerun.

GVB674I

type HIPERSPACE BUFFER ALLOCATION FAILED

Reason:

CA Hyper-Buf was unable to allocate DATA or INDEX hyperspace buffers.

Action:

Check for other messages (not necessarily CA Hyper-Buf messages). This may be because the REGION is too small or because BUFSPMAX or other constraints need to be adjusted downward.

GVB675I

DATA|INDEX BUFFER POOL ALLOCATION SUMMARY (CISZ, #, HSPC)

Reason:

The GVB675I message will appear for both the DATA and INDEX components of the LSR pool. It tells you whether the information in the following GVB676I is an allocation summary of the DATA component or the INDEX component.

Action:

None required. Informational.

GVB676I

00000 1111 2222

Reason:

The GVB676I message will appear for each buffer size in the LSR pool component.

00000 = buffer size

1111 = number of real storage buffers

2222 = number of expanded storage (HIPERSPACE) buffers

If the number of HIPERSPACE buffers is not displayed, then either the CISIZE is not a multiple of 4K or there was not enough expanded storage available to satisfy the request. The buffer pool ID is identified by the subsequent GVB112I message which identifies the file assigned to the LSR buffer pool.

Action:

None required. Informational.

GVB677I

ddname   IAM CONTROLLED FILE - BYPASSING

Reason:

The cluster represented by ddname has been identified as being controlled by the Innovation Data Processing product, IAM, and will not be processed by CA Hyper-Buf.

Action:

None required.

GVB678I

ddname ACCBIAS CODED IN JCL - BYPASSING

Reason:

The data set referenced by ddname has the AMP keyword "ACCBIAS" specified in the JCL, indicating that System Managed Buffering is being specified for the particular data set.

System Action:

The data set reference by *ddname* will not be buffered by CA Hyper-Buf.

Action:

Remove the ACCBIAS keyword in the JCL if you want the data set referenced by *ddname* to be eligible for buffering in CA Hyper-Buf.

GVB679I

ddname COULD NOT BE ASSOCIATED WITH LSR POOL number

Reason:

The data set referenced by *ddname* could not be placed in the LSR pool *number* because this *ddname* was not allocated by the task at the time the buffer pool was constructed. This can happen when a file is dynamically allocated and opened after other files with the same LSR specification have already been opened.

System Action:

The data set referenced by ddname will be put into an unused LSR pool, if any are available. If none are available, the data set uses Non Shared Buffering.

Action:

If you want the data set referenced by *ddname* placed in LSR buffer pool *number*, the data set and all other data sets that have specified LSR pool *number* must be allocated prior to the first open of any of these data sets.

GVB680W

ddname FORCED INTO LSR BY LSRFORCE PROCESSING

Reason:

The data set represented by *ddname* has been forced into an LSR pool because the LSRFORCE processing was specified in the constraints file for this *ddname*.

Action:

The use of the LSRFORCE parameter could result in open errors if the program processing this data set is using an access method that is invalid for LSR processing. Errors may also result if the data set is empty and put into an LSR pool.

GVB681E

QSAM SPECIFICATION MUST BE YES OR NO

Reason:

The QSAM keyword specification is not "YES" or "NO". These are the only values that are acceptable for this keyword.

System Action:

If CA Hyper-Buf is already active, the constraints are not replaced, and processing continues with the prior constraints. If this message is the result of a CA Hyper-Buf start up, CA Hyper-Buf is not activated.

Action:

Correct the QSAM keyword specification and rerun.

GVB682E

TRACKS SPECIFICATION IS NOT VALID

Reason:

The "TRACKS" keyword must have a value between 1 and 15.

Action:

None required.

GVB683E

MACRO DEFINITION NAME IS NOT VALID

Reason:

The value for the "DEFINE=" keyword is not valid. The field name is the name that you wish to assign to a group of constraints. This name can be any alphanumeric characters. The maximum length allowed for a name is 44 characters.

System Action:

If CA Hyper-Buf is already active, the constraints are not replaced, and processing continues with the prior contraints. If this message is the result of a CA Hyper-Buf start up, CA Hyper-Buf is not activated.

Action:

Correct the incorrect value and rerun.

GVB684E

ddname LSR FORCE ATTEMPTED BY HURBA=0

Reason:

The data set referenced by *ddname* was selected to be put into an LSR pool using the LSRFORCE parameter, but the high used relative byte address was zero, indicating a newly allocated cluster, which is not eligible for LSR buffering.

System Action:

The data set referenced by ddname will utilize Non Shared buffering.

Action:

If you want the data set referenced by *ddname* placed in LSR, the data set must have or have had records placed into it in order to make the high used rba > 0.

GVB685E

ddname LSR FORCE ATTEMPTED BUT ACCESS TYPE INVALID

Reason:

The data set referenced by *ddname* was selected to be put into an LSR pool using the LSRFORCE parameter, but either the "direct" or "keyed" bits in the ACB were not on, or the "reset" bit was on, which implies load processing. The ACB must not have the "reset" bit on, and either the "keyed" or "direct" bit must be in order for the data set to be eligible for LSR

System Action:

The data set referenced by ddname will utilize Non Shared buffering.

Action:

If it is desired that the data set referenced by *ddname* be placed in LSR, access to it using the program must be specified as "direct" or "keyed", and the ACB must not specify "reset".

GVB686I

ddname ACB STRING VALUE OF number USED TO RECALCULATE BUFFER VALUES

Reason:

The data set referenced by *ddname* has had its buffer value raised based on the *number* of strings (ACBSTRNO). at open time. in the case of LSR, this message may be repeated for each ddname that is being placed into the LSR pool. The string number is taken from the first ACB that is opened, since that is when the LSR pool is created.

System Action:

CA Hyper-Buf has increased the buffers for this ddname based on the *number* of strings specified in the ACB.

Action:

None.

GVB688E

module COULD NOT BE UPDATED IN LPA BECAUSE OF AN AUTHORIZATION FAILURE

Reason:

CA Hyper-Buf initialization has failed due to a failure in issuing the CSVDYPLA macro to insert the CA Hyper-Buf into dynamic LPA. The **module** listed was not permitted by the security system to be dynamically inserted into the LPS.

System Action:

Initialization terminates with error messages.

Action:

The **module** listed must be permitted to the facility class CSVDYPLA.* for the initialization to be successful. See the section Define Security Profiles in the *Installation Guide* for further information about setting up the security requirements for CA Hyper-Buf.

GVB689E

CSVDYLPA FAILURE ON DEACTIVATION REQUEST

Reason:

CA Hyper-Buf deactivation has detected a problem with removing the dynamically added LPA routines. This message may be followed by GVB690E indicating an authorization failure for the CSVDYPLA DELETE function.

System Action:

CA Hyper-Buf is **disabled**, therefore it will not process jobs. However, the modules that make up the open intercept are still in the system.

Action:

Check the job log for CA Hyper-Buf message GVB690E. If there are GVB690E messages present, they identify the modules that must be permitted to the security system for the CSVDYLPA DELETE macro to complete successfully. Examples of the statements required to permit them to the security system are found in the section Define Security Profiles, explaining the setting up of security requirements for CA Hyper-Buf, in the *Installation Guide*.

GVB690E

module COULD NOT BE UPDATED IN LPA BECAUSE OF AN AUTHORIZATION FAILURE

Reason:

CA Hyper-Buf deactivation has detected a problem with removing the dynamically added LPA **module**. This was caused when the **module** was not permitted to the CSVDYLPA.DELETE.**module** facility in the security system.

System Action:

CA Hyper-Buf is disabled, therefore it does not process jobs. However, the modules that make up the open intercept are still in the system.

Action:

Using the example statements provided in the *Installation Guide,* permit the CA Hyper-Buf modules to the CSVDYLPA.DELETE.**module** facility system, and re-run the job.

GVB691E

module FAILED AUTHORIZATION CHECK FOR CSVDYLPA function

Reason:

CA Hyper-Buf initialization or termination has failed due to a security failure for module. This message may occur when CA Hyper-Buf is being initialized or removed from the system.

System Action:

If this message is issued on CA Hyper-Buf initialization, then the initialization does not complete, and CA Hyper-Buf will not be active in the system. If this message occurs on CA Hyper-Buf termination, CA Hyper-Buf is marked inactive and will not process jobs. However, the resident modules are still present in the system.

Action:

See the section Define Security Profiles in the *Installation Guide* for further information about setting up the security requirements for CA Hyper-Buf. Refer to information related to the CSVDYLPA function and re-run the job.

GVB696E

ddname - //CAHBLSR+ DD OR LSRFORCE CONSTRAINT CONFLICTS WITH RMODE31=NONE

Reason:

File ddname is to be put in LSR but this conflicts with CONTRAINT file entry RMODE31=NONE.

Action:

Informational only. Alter the constraint file if desired and refresh the constraints.

GVB697I

GVB697I nnn LSR POOLS SUPPORTED

Reason:

Informational only. During CA Hyper-Buf initialization, it is determined that your system supports nnn LSR pools.

Action:

None.

GVB998E

RELEASE LEVEL MISMATCH. GVBDYNBF/GVBDYN2

Reason:

The version (dates) of these two modules do not match. A SVC dump is taken and the OPEN/CLOSE continues without CA Hyper-Buf modifications. Both modules must be for the same version to ensure proper operation.

GVBDYNBF is placed into CSA during activation of HYPERBUF.

GVBDYN2 is placed into the application's address space during the first OPEN/CLOSE request after CA Hyper-Buf is activated.

Action:

Check to ensure that the two modules in the LINKLIST are for the same version of CA Hyper-Buf.

If you have just upgraded to a new version and the application address space has not yet been re-started, stop and re-start the application to obtain the new version of GVBDYN2 in the application's address space.

GVB999I

(processing stats)

Reason:

This message is displayed in the job log if MSGLEVEL=10 is in effect. These stats show the processing performed for each VSAM DD. These stats are displayed at CLOSE time and appear once for each CLOSE issued against a DD.

Action:

None required. Informational.

GVB1000D

FIND DDE - MAX DDE LOOP COUNT EXCEEDED

Reason:

Unable to determine track capacity when UNIT=VIO.

Action:

Run IDCAMS DIAGNOSE of VTOC. Correct error(s), if listed, or call CA Support.

Chapter 3: User Abends

This chapter lists the abend codes issued by CA Hyper-Buf, and their descriptions.

This section contains the following topics:

CA Hyper-Buf User Abends

At abnormal termination, CA Hyper-Buf issues the following user abend codes:

GVBDBFON: ABEND 100 - Initialization failed.

Reason:

This message is displayed before abend, usually because CA Hyper-Buf is already active. Other possible reasons are a CSA GETMAIN failed, a SETLOCK failed, or an unsupported version of OS/390 was encountered.

GVBDBOFF: ABEND 200 - Termination failed.

Reason:

This message is displayed prior to abend, usually because CA Hyper-Buf is not active. Other possible reasons are a FREEMAIN CSA failed or a SETLOCK failed.