

Setting Adabas Session Parameters

This chapter is a user's guide to setting Adabas session parameters on the ADARUN control statement. This information is organized as follows:

- General Guidelines
 - Using Session Statistics to Determine Parameter Settings
 - Parameters for Operating Systems
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General Guidelines

Use the following guidelines when setting the various Adabas session parameters:

1. Ensure that the following are specified correctly:
 - program to be executed (see PROGRAM parameter).
 - mode of operation (MODE parameter).
 - database ID (see DBID parameter).
2. If the session is to be restricted to read only (no updating permitted), use the READONLY parameter.
3. If the session is to be restricted to Adabas utilities only, use the UTIONLY parameter.
4. Review buffer and table sizes to be in effect for the session:

Parameter	Description
ASYTVS, LFIOP, TFLUSH	Buffer flush control
LBP	Length of the buffer pool
LCP	Length of security pool
LDEUQP	Length of unique (UQ) descriptor pool
LDTP	<p>If you have Adabas Transaction Manager Version 7.4 or earlier installed, this parameter defines the length of the distributed transaction processing area (Work part 4) for use with DTP=RM.</p> <p>If you have Adabas Transaction Manager Version 7.5 or later installed, this parameter defines the size (in blocks) of the WORK4 index which is used to administer the data on DDWORKR4.</p>

Parameter	Description
LFP	Length of internal format buffer pool
LI	Length of table for ISN lists
LP	Length of data protection area (Work part 1)
LQ	Length of table of sequential commands
LRDP	Length of the cluster block update "redo" pool
LS	Length of sort area
LU	Length of intermediate user buffer
LWKP2	Length of Work part 2
LWP	Length of Adabas work pool
MSGBUF	Length of message buffer for use with SMGT=YES
NAB	Number of attached buffers
NC	Number of elements in command queue
NH	Number of elements in hold queue
NISNHQ	Maximum number of records in hold queue per user
NQCID	Maximum number of active command IDs per user
NSISN	Maximum number of ISNs per TBI element
NT	Number of threads
NU	Number of elements in user queue

- Review the time limits to be in effect for the session:

Parameter	Description
CT	Command timeout limit
MXTNA	Maximum inactivity limit using OP command for individual user
MXTSX	Maximum execution limit for Sx command for individual user
MXTT	Maximum transaction time limit using OP command for individual user
TLSCMD	Sx command time limit
TNAA	Inactivity limit for access only users
TNAE	Inactivity limit for ET logic users
TNAX	Inactivity limit for EXU users
TT	Transaction time limit

6. If dual protection logging is to be used, the DUALPLD and DUALPLS parameters apply.
7. If multiple (2-8) protection log datasets are to be used, the NPLOG, PLOGDEV, and PLOGSIZE parameters apply.
8. If command logging is to be used, the following parameters are applicable:

CLOGLAYOUT
 LOGGING
 LOGCB, LOGCLEX, LOGFB, LOGIB, LOGIO, LOGRB, LOGSB, LOGVB

9. If a sequential command log is to be used, the LOGGING parameter applies.
10. If dual command log datasets are to be used, the DUALCLD and DUALCLS parameters apply.
11. If multiple (2-8) command log datasets are to be used, the NCLOG, CLOGDEV, and CLOGSIZE parameters apply.
12. If the multifetch or prefetch feature is to be used, the following parameters are applicable:

PREFETCH
 PREFICMD
 PREFIFIL
 PREFNREC
 PREFSBL
 PREFTBL
 PREFXCMD
 PREFXFIL

13. Determine if any of the following user exits are to be activated:

User Exit	Description
CDXnn	Collation (sort) descriptor processing
DSFEX1	Delta Save Facility user exit for use with DSF=YES
HEXnn	User hyperdescriptor processing
UEX1	User processing before command execution
UEX2	Dual log copy
UEX3	User phonetization
UEX4	User processing after command processing and before command logging
UEX5	Adabas Review hub event handler
UEX6	User processing before data compression
UEX8	Message/utility user processing
UEX9	User processing during file unload
UEX12	Multiple log dataset copy

14. Enable the nucleus to run with specific subsystems and associated products or in certain environments:

Parameter	Description
CACHE	Adabas Caching Facility (ACF)
CLUSTER	Adabas cluster nucleus session control (ALS or ASM)
DSF	Adabas Delta Save Facility (ADE)
DTP	Enable the nucleus for distributed transaction processing as a resource or transaction manager (ATM)
FASTPATH	Adabas Fastpath (AFP)
REVIEW	Adabas Review (REV)
SMGT	Enhanced error handling (PINs) and message buffering subsystem
STP	Triggers and Stored Procedures Facility
VISTA	Adabas Vista (AVI)

15. If CLUSTER is either LOCAL or SYSPLEX, determine the cluster environment settings:

Parameter	Description
CLOGMRG	Merge cluster command logs automatically
CLUCACHENAME	Custer cache structure/area name
CLUCACHESIZE	Parallel cluster global cache area size
CLUCACHETYPE	Parallel cluster global cache area construct type
CLUGROUPNAME	Cluster name
CLULOCKNAME	Custer lock structure/area name
CLULOCKSIZE	Parallel cluster global lock area size
DIRRATIO/ELEMENTRATIO	Together define the ratio of directory entries to data elements
LRDP	Length of the cluster block update "redo" pool
MXCANCEL	Time limit for a canceled peer nucleus to terminate
MXMSG	Time limit for an inter-nucleus command to be processed
NUCID	Cluster nucleus ID

16. Determine the status of the nucleus in a network:

Parameter	Description
LOCAL	Enable nucleus for network connections
TCPIP	TCP/IP direct link to the nucleus
TCPURL	Identify the location of the TCP/IP link

17. Determine if any of the following parameters are applicable for the session:

Parameter	Description
DEVICE	Device type for first block of Associator
FORCE	Ignore active database ID setting in the ID table
IGNDIB	Ignore active nucleus entry in data integrity block (DIB)
IGNDTP	Ignore data in Work part 4 on startup for use with DTP=RM
NONDES	Non-descriptor searches
OPENRQ	Open command required
PLOGRQ	Selective/normal protection log required
QBLKSIZE	Sequential block size

18. When performing an autorestart following an abend, use the optional AREXCLUDE parameter to exclude any problem files from processing.

Using Session Statistics to Determine Parameter Settings

The Adabas session statistics are printed automatically at the end of a session and may be displayed during the session. These statistics can help you determine the optimum settings for each parameter. Adabas Online System may also be used to obtain session statistics.

Parameters for Operating Systems

Some ADARUN parameters are operating-system dependent, and must be set according to the particular operating environment.

BS2000

Parameter	Description
CMADDR	Start address for common memory pool
CMDQMODE	Command queue memory pool location
CMFIX	Fix location for common memory pool
CMLADDR	Below 16MB; see CMADDR
CMLFIX	Below 16MB; see CMFIX
CMLSCOPE	Below 16MB; see CMSCOPE
CMLSIZE	Below 16MB; see CMSIZE
CMSCOPE	Access to common memory pool
CMSIZE	Use and size of common memory pool
GROUPS	Resource naming restrictions
IDTNAME	ID table name
TAPEREL	Tape handling
TASKCTGY	Adabas task category control

OS/390, z/OS, and VSE/ESA or Compatible Systems

Parameter	Description
SVC	OS/390, z/OS, or VSE/ESA SVC assignment for Adabas

OS/390, z/OS, VM/ESA, and z/VM Systems Only

Parameter	Description
xxxxCACHE	Disable controller caching for Adabas components, as desired. Caching is active if not explicitly disabled.