♫ software AG

Adabas System Coordinator

Adabas System Coordinator Operations Guide

Version 7.4.2

September 2009

Adabas System Coordinator

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1 Adabas System Coordinator Operations Guide

This document provides information related to Adabas System Coordinator operations.

The following topics are provided:

- **Starting the Adabas System Coordinator Daemon**
- **Runtime Parameters**
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2 Starting the Adabas System Coordinator Daemon

Normally, there is one Adabas System Coordinator daemon per operating system image.

The daemon must be started before any TP monitors or batch jobs that use its services.

3　Runtime Parameters

The following parameters can be entered using DDCARD input. The PRODUCT parameter is mandatory. All other parameters are optional.

Parameter	Usage
CT	Command timeout limit.
FORCE	Overwrite ID table entry.
LOCAL	Define an isolated daemon.
LU	Length of intermediate user buffer.
MAXTTD	Limit number of thread timeout dumps.
MPMWTO	Display information messages.
NABS	Number of attached buffers.
NC	Number of command queue elements.
PRODUCT	Identify the services to be made available. Mandatory.

CT – Command Timeout Limit

Parameter	Use	Mimimum	Maximum	Default
CT	The maximum number of seconds (more precisely, units of 1.048576 seconds) that can elapse from the time a daemon request is completed until the results are retrieved by the sender through the interregion communication.	1	16,777,215	60

This parameter is used to prevent a request queue element (RQE) and attached buffer from being held indefinitely when a user with an outstanding request terminates abnormally.

Possible causes of a command timeout are

■ address space is swapped out or cannot be dispatched;

■ the task is cancelled or ABENDed;

■ the task has low priority in a high-activity system.

FORCE – Overwrite ID Table Entry

Parameter	Use	Possible Values	Default
FORCE	Specify whether or not this daemon is to force an entry into the active node list.	YES | NO	NO

Possible values:

- FORCE=YES: Force an active entry, if one is available.

  FORCE=YES is usually not required. However, it may be needed if the previous daemon session ended abnormally, leaving the old entry in the active node list. Use this setting carefully.

- FORCE=NO: Causes an error if the node used by this daemon already appears in the active node list.

LOCAL - Define an Isolated Daemon

Parameter	Use	Possible Values	Default
LOCAL	Specify whether or not a daemon is to be isolated from other Entire Net-Work nodes.	YES | NO	NO

Possible values:

- LOCAL=YES: Isolates this daemon from other Entire Net-Work nodes.

- LOCAL=NO: The daemon can receive calls from other Entire Net-Work nodes.

LU – Length of Intermediate User Buffer

Parameter	Use	Mimimum	Maximum	Default
LU	Set the size of the intermediate user buffer area.	4000	65,535	65,535

The size specified must be large enough to accommodate all control information for commands passed to the node.

An error occurs if the LU parameter specifies a value greater than the byte count implied by the NAB parameter. If you change either parameter value, you may have to change them both.

MAXTTD – Limit Number of Thread Timeout Dumps

Parameter	Use	Possible Values	Default
MAXTTD	Limit the number of thread timeout dumps produced.	0-99999	No limit

When the SYSCO daemon loses contact with a database it issues message "CORD045E Thread Timeout", and produces a dump of internal control blocks for diagnostic purposes. Since a thread timeout is often a normal response, the dumps are usually not required, and can fill dump / listing files. MAXTTD can be used to limit the number of thread timeout dumps produced. If MAXTTD=0 is specified, all thread timeout dumps will be eliminated.

MPMWTO – Display Information Messages

Parameter	Use	Possible Values	Default
MPMWTO	Specify whether or not to display information level (l-level) messages.	YES | NO	NO

By default, information level (I-level) messages are suppressed.

NABS – Number of Attached Buffers

Parameter	Use	Mimimum	Maximum	Default
NABS	Specify the number of attached buffers to be used.	0	500,000	16

An attached buffer is an internal buffer used for communication with the daemon.

For Adabas System Coordinator, this is an optional parameter that defines the number of attached buffers to be used for receiving requests from clients or from other daemon peers.

An attached buffer pool is allocated with a size equal to the value of the NABS parameter multiplied by 4096 bytes.

NC - Number of Command Queue Elements

Parameter	Use	Mimimum	Maximum	Default
NC	Set the maximum number of command queue elements.	20	32,767	100

The maximum number of command queue elements (CQEs) that can be processed simultaneously by this daemon.

PRODUCT - Identify the Services to be Made Available

Parameter	Use	Possible Values	Default
PRODUCT	Specifies which product services are to be made available by Adabas System Coordinator: ■ AFP: Adabas Fastpath Asynchronous Buffer Manager ■ ATM: Adabas Transaction Manager ■ AVI: Adabas Vista daemon component ■ CAS: Clustered Application Service	AFP ATM AVI CAS	none

This parameter is used once for each service that is to be made available by the daemon.

The minimum is usually `PRODUCT=CAS`. Sites that use Adabas Fastpath will also require `PRODUCT=AFP`. Sites that use Adabas Vista or Adabas Transaction Manager and wish to support dynamic transaction routing in a clustered application will require `PRODUCT=AVI` and/or `PRODUCT=ATM`.

4 Operator Commands

The following operator commands are available through the OS/390 `Modify (F)` command, VSE/ESA operator command, or z/VM and BS2000 commands.

Command	Description
STOP	Terminates the daemon in an orderly manner. The commands `SHUTDOWN` and `ADAEND` can also be used for the same purpose. The daemon should not be stopped while there are jobs active.
DPARM	Displays the runtime parameters for this execution of the daemon.
CAS DN	Displays statistics for all active daemons in the network. This command is processed by the Clustered Application Service (CAS) component.

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