

ADARUN Parameters

The ADARUN control statement defines and starts the Adabas operating environment. The ADARUN control statement also starts Adabas utilities.

The ADARUN parameters described in this chapter apply specifically to Adabas Review.

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ADARUN Functions

ADARUN performs the following functions:

- Loads the ADAIOR module, which performs all database I/O and other functions that depend on the operating system.
- Interprets the ADARUN parameter statements; then loads and modifies the appropriate Adabas nucleus or utility modules according to the ADARUN parameter settings.
- Transfers control to Adabas.

The ADARUN statement, normally a series of entries each specifying one or more ADARUN parameter settings, is specified in the DDCARD data set for OS/390 or z/OS. For more specific job information, refer to the appropriate section in this manual.

ADARUN Parameter Syntax

The syntax for the ADARUN statement and parameters is:

```
ADARUN parameter=value,...
```

In this syntax, *parameter=value* is one or more of the ADARUN parameters described in this section.

Any number of blanks is permitted between "ADARUN" and the first parameter, but no blanks are permitted within the *parameter=value* string. Commas (,) must be used as separators. A blank following a *parameter=value* entry indicates the end of the statement.

The literal "ADARUN" must be entered in positions 1-6 of each ADARUN statement. All *parameter=value* entries must end before position 73. Any *parameter=value* entries that would extend beyond position 72 must be coded on a new statement as shown below. The comma following the last *parameter=value* entry of a statement is optional, and is not interpreted as a continuation character. Positions 73-80 are ignored. An asterisk (*) in position 1 indicates a user comment line.

The following example summarizes the ADARUN statement format. The first statement cannot continue beyond position 72. The second statement represents a continuation of the first statement. All ADARUN continuation statements have the same format and restrictions as the first statement.

| Positions 1-6 | Positions 8-72 |
|---------------|--|
| ADARUN | <i>parameter=value.parameter=value,...</i> |
| ADARUN | <i>parameter=value</i> |

The ADARUN parameters are summarized in the following table, and described in detail in the section following the table.

Unless noted otherwise, each parameter has a default value that ADARUN uses if the parameter is not specified.

ADARUN Parameters

- PROGRAM: Program to Be Executed
- REVIEW: Adabas Review Control
- CT: Command Timeout Limit
- FORCE: Allow Database ID Table Entry Overwrite
- LOCAL: Local Nucleus
- NAB: Number of Attached Buffers
- NC: Number of Command Queue Elements
- SVC: Supervisory Call Number

PROGRAM: Program to Be Executed

| Parameter | Use | Values | Default |
|-----------|-------------------------------------|-----------------|---------|
| PROGRAM | Specify the program to be executed. | ADANUC ADAREV | USER |

This parameter specifies the program to execute: the Adabas nucleus (ADANUC) for the interface installation or Adabas Review (ADAREV) for the hub installation.

- For the interface (client) installation, specify PROGRAM=ADANUC to start the Adabas nucleus that will log to Adabas Review hub 27:

```
ADARUN PROGRAM=ADANUC,REVIEW=27
```

See the Adabas documentation for more information about executing an Adabas nucleus.

- For the hub (server) installation, specify PROGRAM=ADAREV to start the Adabas Review hub 27:

```
ADARUN PROGRAM=ADAREV,REVIEW=27
```

REVIEW: Adabas Review Control

| Parameter | Use | Values | Default |
|-----------|---|--------------------------|---------|
| REVIEW | Enable Adabas Review in local or hub mode specifying the hub ID, if applicable. | NO LOCAL <i>dbid</i> | NO |

Note:

REVIEW replaces the ADARUN parameter REVIEWHUBID introduced in Adabas version 6; however, REVIEWHUBID remains a synonym for REVIEW.

REVIEW controls the use of the Adabas Review product:

| Value | Meaning |
|-------------|--|
| NO | The default setting. Adabas Review is not started. |
| LOCAL | Adabas Review is started in local mode running in the Adabas address space as an extension of ADALOG. Note: Adabas Review no longer runs as a user exit 4. |
| <i>dbid</i> | Adabas Review is started in hub mode. The physical database ID that you specify for the hub identifies either: <ul style="list-style-type: none"> • the hub (server) itself (with PROGRAM=ADAREV) that is being started; or • from an Adabas nucleus client, the hub that is the target for Adabas Review processing for that nucleus (with PROGRAM=ADANUC). |

Note:

Adabas Review version 4.3 supports two-byte DBIDs for databases being monitored and for the hub ID itself.

Example

For the Adabas Review hub (server) installation, start hub 202.

```
ADARUN PROGRAM=ADAREV,REVIEW=202
```

For the Adabas Review (client) installation, start the Adabas nucleus that will log to Adabas Review hub 202.

```
ADARUN PROGRAM=ADANUC,REVIEW=202
```

CT: Command Timeout Limit

When you are running Adabas Review in hub mode, Software AG recommends that you set the ADARUN CT parameter as low as possible.

| Parameter | Use | Minimum | Maximum | Default |
|-----------|--|---------|----------|---------|
| CT | Set the maximum time for interregion communication of results from Adabas to user. | 1 | 16777215 | 60 |

The maximum number of seconds (more precisely, units of 1.048576 seconds) that can elapse from the time an Adabas command has been completed until the results are returned to the user through the interregion communication (operating-system-dependent).

This parameter is used to prevent a command queue element and attached buffer from being held for a long period of time for a user who has terminated abnormally.

Possible causes of a command timeout are:

- User region that is swapped-out or cannot be dispatched;
- User cancelled;
- Low priority of user in high activity system.

If the CT limit is exceeded:

- a BT command will be executed (if applicable and necessary);
- the command queue element and attached buffer will be released;
- a message ADAM93 is printed; and
- if the user has not terminated, response code 254 is returned to the user program.

Note:

This parameter should not be confused with the non-activity (TNAA, TNAE, TNAX) and transaction time limit (TT) parameters, which are based on user activity.

Example

Permit about 5 seconds to obtain a result through interregion communication.

```
ADARUN PROG=ADAREV,CT=5
```

FORCE: Allow Database ID Table Entry Overwrite

| Parameter | Use | Values | Default |
|-----------|--|----------|---------|
| FORCE | Specify whether an Adabas Review hub can overwrite an existing ID table entry. | YES NO | NO |

A hub is not allowed to start if an ID table entry already exists for it. When an Adabas Review hub starts up, ADARUN scans the ID table to ensure that no entry exists.

The ID table entry is derived from the Review hub ID and the job name. Normally, the ID table entry is deleted when the hub terminates.

The FORCE parameter allows the hub to overwrite the existing ID table entry and start. FORCE=YES is required when restarting a session that terminated abnormally with an ADAM98 message. In this case, the ID table still contains an active entry for the hub.

| Value | Meaning |
|-------|---|
| YES | The hub that is starting can overwrite an existing ID table entry. |
| NO | The default setting. If the ID table contains an entry for the hub that is starting, the hub is not allowed to start. |

Overwriting the existing entry by specifying FORCE=YES:

- prevents further communication to the overwritten entry;
- causes loss of cross-memory environment resources, which cannot be restored until the next initial program load (IPL).



Warning:

Do not use the FORCE parameter unless absolutely necessary.

Ensure that no hub is active for the ID table entry being overwritten.

Example

If the ID table contains an active entry for Review hub 27, overwrite the entry.

```
ADARUN PROG=ADAREV, FORCE=YES, REVIEW=27
```

LOCAL: Local Nucleus

| Parameter | Use | Values | Default |
|-----------|--|----------|---------|
| LOCAL | Defines a nucleus as isolated for local availability only. | YES NO | YES |

If LOCAL=YES (the default), the nucleus is unknown to Entire Net-Work. Such a nucleus can have the same database ID as another database nucleus on another network node.

In hub mode, the hub database can be defined with LOCAL=YES, making it possible to use the same hub ID for other hub databases in your system.

| Value | Meaning |
|-------|---|
| YES | Isolates this nucleus (that is, makes it unaddressable) from other Entire Net-Work nodes. |
| NO | Allows the nucleus to receive calls from other Entire Net-Work nodes. |

Example

The Adabas Review hub nucleus is isolated and can not be addressed by other Entire Net-Work nodes.

```
ADARUN PROGRAM=ADAREV,REVIEW=27,LOCAL=YES
```

NAB: Number of Attached Buffers

| Parameter | Use | Minimum | Maximum | Default |
|-----------|--|---------|---------|---------|
| NAB | Specify the number of attached buffers to be used. | 0 | 500,000 | 16 |

An attached buffer is an internal buffer used for interregion communication. An attached buffer is required in all Adabas Review hub environments.

The Adabas Review hub allocates an attached buffer pool with a size equal to the value of NAB multiplied by 4096 bytes. You may specify as many attached buffers as fit into the available virtual storage. In environments running in 31-bit addressing mode, the attached buffer pool space is allocated above the 16-MB line.

The Adabas Review hub can use its high-performance Trans-Port protocol to receive command logs from version 7.1.2 or later Adabas nuclei under the same OS/390 image and using the same SVC as the hub. Trans-Port will obtain additional buffers above the 16-MB line and expand the buffer pool when needed, up to a limit of 80% of available storage. Use the REGION parameter on the hub's JOB or EXEC JCL statement to control the amount of storage available and the maximum size of the buffer pool.

In environments running in 31-bit addressing mode, the attached buffer pool space is allocated above the 16-MB line.

Example

Run the Adabas Review hub with 10,000 attached buffers.

```
ADARUN PROG=ADAREV,NAB=10000
```

NC: Number of Command Queue Elements

| Parameter | Use | Minimum | Maximum | Default |
|-----------|---|---------|---------|---------|
| NC | Set the maximum number of command queue elements. | 20 | 32767 | 200 |

The number of command queue elements to be established for the Adabas Review hub. This number determines the maximum number of command logs that may be queued and/or be in process at any one time in the Adabas Review hub.

Each command log is assigned a command queue element. The command queue element is released when the log record has been processed.

192 bytes are required for each command queue element.

The Adabas Review hub can use its high-performance Trans-Port protocol to receive command logs from version 7.1.2 or later Adabas nuclei under the same OS/390 image and using the same SVC as the hub. Trans-Port bypasses the command queue and no additional command queue elements need be provided for these clients.

See the Adabas Review user documentation for more information on requirements for hub storage.

Example

Run the Adabas Review hub with a maximum of 5000 command queue elements in the command queue.

```
ADARUN  PROG=ADAREV,NC=5000
```

SVC: Supervisory Call Number

| Parameter | Use | Values | Default |
|-----------|---|---------|---------|
| SVC | Specify the Adabas SVC number to be used for the Adabas Review hub. | 200-255 | 249 |

The SVC number is specified as an integer. It must correspond to the number used for the Adabas SVC at your installation.

If the SVC parameter is not specified, the default value is taken from the Adalink being used. The Adalink is delivered with the value 249.

The Adabas SVC is used to perform various Adabas internal functions under OS/390 or z/OS. It is also used to connect the Adabas Review hub to the client Adabas nuclei.

For OS/390 or z/OS, valid SVC values are 200-255.

Example

Execute an Adabas Review hub under OS/390 or z/OS using SVC 202 for the Adabas SVC.

```
ADARUN PROG=ADAREV,SVC=202
```