

Adabas Review

Adabas Review Reference

Version 4.5.1

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Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Preface

This document describes the:

- commands that may be used in Adabas Review, and the use of function codes and commands to navigate through the system.
- fields that may be used when creating Adabas Review reports using the `Edit Report (ER)` command.
- reports supplied with Adabas Review.
- summary record layout used by Adabas Review.

The Adabas Review Command, Field, and Supplied Report Reference documentation is organized in the following topics:

<i>Command Reference</i>	Provides an alphabetic reference to the commands that can be issued in Adabas Review.
<i>Field Reference</i>	Provides alphabetical and categorical references for the fields that you use in Adabas Review.
<i>Supplied Report Reference</i>	Describes each of the predefined reports supplied with Adabas Review.
<i>Summary Record Layout</i>	Describes the layout of the summary record.

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This documentation describes the commands that may be used in Adabas Review, and the use of function codes and commands to navigate through the system. All function codes and most commands have been introduced in context in other parts of this documentation.

The commands described in this section may be used within Adabas Review. Some may be entered on the command line of any Adabas Review screen; others are specific to a particular function. Refer to the description of the particular command for more information.

Terms enclosed in (square) brackets (e.g., [report-name]) are optional. Braces ({ }) enclose possible (mutually exclusive) options. Unless qualified by (square) brackets ([]), one of the terms listed within the braces must be chosen.

Please note that the following commands may be used throughout Adabas Review:

COLOR
EXIT
FIN
HELP
LOGO
MENU
MSG
QUIT

These commands are also described in section *Using Adabas Review Commands* in *Adabas Review Concepts Manual*.

Issuing Commands

▶ **To issue an Adabas Review command:**

- Type the command on the command line and press ENTER

Or:

Press the PF key corresponding to the command, if applicable.

Command List -- Quick Reference

The following table lists all of the commands available for use in Adabas Review. This table is provided as a quick reference of the commands.

Command	Use to...
AA	list target objects for a particular SVC
ACCPT	accept (temporarily save) selections or changes to selections
AOS or AO	access Adabas Online System
CD	change DBID
CH	compress history data
CL	close (suspend) report
COLOR <i>{[ON] OFF}</i>	display color attributes or turn color off
CONVERT HISTORY	convert history data from one release to another, if requested
CP <i>[report-name]</i>	change display program
CR	copy report definition
DBID= <i>dbid</i>	change the database
DD	display report information
DL <i>[report-name]</i>	download report output or history data
EB	access and edit Buffer Pool Report
EL	Edit Pulse report
EP <i>[report-name]</i>	access and edit display program
ER <i>[report-name]</i>	access and edit report definition
ET <i>[target-number]</i>	access and edit target object definitions
EU <i>{[DEFAULT userid]}</i>	access and edit user profile
EX	expand list of history reports
EXIT	return to previous screen
FIELD <i>[field-type1 field-type2 ...]</i>	list database fields
FIN	terminate Adabas Review session
FLDS <i>[field-type1 field-type2 ...]</i>	list database fields
GENAUTO or GA	force regeneration of control statements for all autostarted reports
GENCARD or GC	generate report parameter cards for user-specified reports
HC <i>[report-name]</i>	print report output or history data (hard copy)
HELP	display help for screen or field

Command	Use to...
HUB= <i>hubid</i>	change the hub database
IN	display storage and processing information for active reports
LF [<i>field-type1 field-type2 ...</i>]	list database fields
LH	list history reports
LOG	in local mode only, reset selected parameters dynamically
LOGO	display Adabas Review logo screen
LOGON <i>library-name</i>	logon to the specified library
LR	list report definitions
LS	list started reports
LT	list target object definitions
LU	list user profiles
MENU	access the Adabas Review main menu
MSG [<i>message-number</i>]	display detailed explanation of the specified Adabas Review message
NAT	exit Adabas Review and return to Natural
NUC LIST	monitor specific nucleus IDs separately when running in local mode by selecting the nucleus IDs from a list
NUCID	monitor specific nucleus IDs separately when running in local mode
OPTNS	access and edit report options
PH	purge history data from expanded list
PR	purge report definition
PRINT [<i>report-name</i>]	print report output or history data
PS	purge (started) report output
PT	purge target object definition
PU	purge user profile
QUIT	terminate Adabas Review session
RA [<i>report-name</i>]	reactivate suspended report
REFRESH [<i>report-name</i>]	refresh report
REGEN [<i>report-name</i>]	regenerate display program
RESET HISTORY FILE	unlock history file locked as a result of the abnormal termination of the history compression program
RF [<i>report-name</i>]	refresh report
RG [<i>report-name</i>]	regenerate display program
RULES	access and edit report processing rules
SAVE	save report definition; write to Adabas Review repository
SETfile	access different Adabas Review repositories

Command	Use to...
<code>Sort</code>	dynamically change sort options from view (VW) of started report results
<code>StArt[report-name]</code>	start report
<code>SU [report-name]</code>	suspend a started report
<code>Switch [report-name]</code>	switch CLOG data sets
<code>TECH</code>	displays environmental and maintenance information about the installed Adabas Review system
<code>VIEW [report-name]</code>	view started report, report output, or history data
<code>VW [report-name]</code>	view started report, report output, or history data
<code>?</code>	display help for a field

AA Command

Target objects are databases that may be monitored by Adabas Review. The AA (available Adabas nuclei) command is used to list the Adabas target objects for a particular supervisor call number (SVC) and provides a "snapshot" of processing activity as seen through Adabas Review.



Note: For z/VSE and BS2000 operating systems, this function is not yet available.

For more information, see *Displaying SVC Lists and Target Objects* in the *Adabas Review Administration Guide*.

ACCPT Command

The ACCPT command is used within the Edit Report (ER) function to save changes temporarily while you are working on another portion of the report. The ACCPT command does not save changes to disk.

Enter the ACCPT command on the command line of the Report Options screen in the Edit Report function.

For more information, see various subsections of the section *Using the Edit Report (ER) Function in Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

AOS or AO Command

Adabas Online System (AOS) is a selectable unit of Adabas that enables database administrators to monitor and change aspects of an Adabas database interactively. For more information, refer to the *Adabas DBA Tasks Manual* documentation provided with your Adabas installation.

If Adabas Online System is installed on your system and you have access privileges to it, you can access it by entering the AOS command on the command line of any Adabas Review screen. For more information, see the section *Accessing Adabas Online System in Displaying Statistics*, in the *Adabas Review User's Guide*.

CD Command

Each report collects data from a particular database. The CD command is used within the List Report Definitions (LR) function to change that database; that is, to change the DBID. The CD command is issued from the Report Definitions screen.

For more information, see the section *Changing the DBID in Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

CH Command

The CH (compress history) command summarizes all history report occurrences within a date range into a single report occurrence. The original report occurrences are then purged. Although this command can dramatically reduce the number of records used to represent the report, it also denies you the possibility of thereafter viewing the data by different data ranges.

If the CH command terminates abnormally for any reason, the original history data could be lost; therefore, Software AG recommends backing up your data before executing this command. If an abnormal termination occurs, the history file is locked against further compression attempts for any report by any user. See the RESET HISTORY FILE command for information about unlocking the history file.

For more information, see the section *Compressing Accumulated History Report Data in Managing History Data*, in the *Adabas Review User's Guide*.

CL Command

The `CL` command is used within the `List Started Reports (LS)` function to close a report. Closing a report means that the report is suspended, and the accumulated data is written to the output locations defined to the report. Data accumulated by the report before the command was issued may not be viewed online after the command completes.

If the report option `RESTART=Y` is specified, the report is restarted automatically after the `CL` command has been issued.

On the `Started Reports` screen, enter the `CL` command on the selection line preceding the name of the report you are closing.

For more information, refer to the section *Closing Reports in Running Reports*, in the *Adabas Review User's Guide*.

COLOR Command

```
COLOR { ON | OFF }
```


If you use a color terminal, the `COLOR` command may be used throughout Adabas Review to change the display from color to monochrome. `COLOR OFF` turns off the color display, and `COLOR ON` (the default) turns on the color display.

CONVERT HISTORY Command



CONVERT HISTORY

If required, you can use the CONVERT HISTORY command to convert your history data from one release of Adabas Review to another. Some releases of Adabas Review may require this to bring your older history data in sync with any new report data you will generate.

 **Caution:** You should not run this command unless required by a given Adabas Review release; in different releases of Adabas Review this command may alter entirely different data (or none at all). To determine whether it is necessary to convert your history data for a given release and what data this command will alter, read the Release Notes for the release and the installation instructions. When you are required to run this command, you should run it only once, before you run any new reports with the new Adabas Review release. If you run it more than once, you run the risk of altering your history data more than necessary, rendering it unusable. If you run it after you have run new reports with the new Adabas Review release, you run the risk of altering the data in the new reports.

When you run the CONVERT HISTORY command, a series of pop-up panels appear, prompting you for information. For specific functionality of the CONVERT HISTORY report for any given release, read that release's Release Notes.

CP Command



```
CP [report-name]
```

The CP command is used within the List Report Definitions (LR) function to change the display program used by the report.

The CP command is entered on the selection line preceding the report name on the Report Definitions screen. The cursor is automatically placed on the display program name so that you may enter the name of the new display program.

The CP command may also be entered on the command line of any Adabas Review screen as follows:

```
CP report-name
```

A window appears giving the report name, the name of the current display program, and an input line for the name of the new display program.

For more information, see the section *Changing to a Different Display Program* in *Maintaining Display Programs*, in the *Adabas Review User's Guide*.

CR Command

One way to create new reports is to use the Copy Report Definition (CR) command within the List Report Definitions (LR) function. The CR command is issued from the Report Definitions screen.

The CR command allows you to copy a report definition either to another Adabas Review repository, or to the current Adabas Review repository under a new name.

For more information, see the section *Copying a Report Definition* in *Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

DBID Command



```
DBID = dbid
```

The `DBID` command is used to change to another local Adabas Review or to another Adabas Review hub database. `DBID` functions as a synonym for the `HUB` command. The command may be entered on the command line of any screen. Specify the database ID number of the new local Adabas Review or the new hub database for *dbid*.

The message "DBID has been changed" indicates that the connection between the Adabas Review Natural code and the indicated Adabas Review hub has been successfully established.

If Adabas Review is unable to change to the database specified, or if the database specified is running an earlier version of Adabas Review, an error message is displayed describing the condition.

DD Command

The `DD` command is used to display selected information about a report including the identity of the user who saved it, its format (summary or detail), whether history data is collected for it; what control breaks are specified; what totals and what averages are specified.

For more information, see the section *Displaying Report Information in Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

DL Command

```
DL [report-name]
```



Note: To use this command, Entire Connection is required.

The DL command is used to download to a personal computer the data accumulated by a started report. It may also be used to download history data.

The DL command may be issued from either the Started Reports (LS function) screen or the History Reports (LH function) screen by entering the command on the selection line preceding the report name.

The DL command may also be entered on the command line of any screen within Adabas Review as follows:

```
DL report-name
```

If the DL command is entered on the command line without a report name, the command applies to the report you last accessed.

After the command has been issued, Entire Connection prompts you for file and directory information. Entire Connection proceeds to download the report output to the file and directory specified.

For more information, see the section *Downloading Report Output* in *Managing Report Output*, in the *Adabas Review User's Guide*.

EB Command

A sample report called "Buffer Pool Report" is created when Adabas Review is installed. The EB command is used to create, edit, and start buffer pool reports for specific databases being monitored based on the provided sample report.

For more information, see the section *Editing the Buffer Pool Report* in *Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

EL Command

Pulse reports receive nucleus statistical data from Adabas on an interval basis. Adabas transmits a Pulse record to Adabas Review once for each interval period. With the EL command, a Pulse report can be defined and started.

For more information, see the section *Editing Adabas Pulse Reports* in *Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

EP Command



```
EP [report-name]
```

The EP command is used to edit the Natural program that displays the report results online when the VIEW command is issued.

The EP command may be issued from any of the three list report function screens (Report Definitions, Started Reports, and Adabas History Reports) by entering the command on the selection line preceding the report name.

The command may also be issued on the command line of any screen in Adabas Review as follows:

```
EP report-name
```

For more information, refer to the section *Editing the Display Program* in *Maintaining Display Programs*, in the *Adabas Review User's Guide*.

ER Command

ER [report-name]

The ER command is used to create and modify reports. It may be issued from any of the list report function screens (Report Definitions, Started Reports, and Adabas History Reports) on the selection line preceding the report name.

The ER command may also be issued on the command line of any screen within Adabas Review. To edit an existing report, or to create a new report, enter the command as follows:

```
ER report-name
```

For more information, see the section *Using the Edit Report (ER) Function in Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

ET Command

ET [*target-number*]

The ET command is used by Adabas Review administrators to edit target definitions. This command is issued by from the Target Definitions screen (LT function) by entering the command on the selection line preceding the target's DBID.

The ET command may also be issued on the command line of any screen within Adabas Review. To edit an existing target, or to add a new target, enter the command as follows:

```
ET target-number
```

For more information, see *Displaying SVC Lists and Target Objects* in the *Adabas Review Administration Guide*.

EU Command

```
EU { DEFAULT | userid }
```

The `EU` command is used by Adabas Review administrators to create and edit user profiles, either the `DEFAULT` profile or the profile for a particular user ID.

For more information, read *Customizing the Default Profile, Creating a User Profile, Editing a User Profile* or *Copying a User Profile* in the *Adabas Review Administration Guide*.

EX Command

The `EX` command is used within the `List History Reports (LH)` function. It "expands" the Adabas History Reports screen to list the dates when history data was accumulated by the report. For more information, see the section *Expanding the List of History Reports* in *Managing History Data*, in the *Adabas Review User's Guide*.

The command is issued by entering the `EX` code on the selection line preceding the report name.

The `EX` command must be issued before attempting to purge history data.

EXIT Command

The `EXIT` command is used to terminate a function and return to the menu from which the function was called. This command is not to be confused with the `MENU` command, which terminates the function and returns to the Adabas Review main menu.

The `EXIT` command may be issued from any screen within Adabas Review. The command may be issued either by entering `EXIT` on the command line or by pressing `PF3`.

FIELD, FLDS or LF Command

```
{FIELD | FLDS | LF} [field-type1 field-type2 ... ]
```

The `FIELD`, `FLDS`, or `LF` command is used within the `Edit Report (ER)` function to display the data fields that may be used in reports:

- The list of field categories is displayed by entering the `FIELD`, `FLDS`, or `LF` on the command line of any screen within the `Edit Report (ER)` function.
- The list of fields for a particular category is displayed by entering the `FIELD`, `FLDS`, or `LF` command followed by one or more of the following category codes:

AC	Adabas control block fields
BU	Adabas buffer fields
IN	Interval and time fields
IO	Adabas I/O fields
NA	Natural fields
NU	Adabas nucleus fields
OP	Operating system fields
TP	Fields used to monitor transaction processing

For more information, refer to the section *Entering the Field Names in Using the Edit Report (ER) Function*, in the *Adabas Review User's Guide*.

FIN or QUIT Command

{FIN | QUIT}

The `FIN` or `QUIT` command is used to exit from Adabas Review. It may be issued from any screen in Adabas Review. If exiting from the Adabas Review main menu, you may also press `PF12` or `PF3`.

FLDS Command

See the `FIELD` command.

GENAUTO or GA Command



```
{GENAUTO | GA}
```

The `GENAUTO` command is used to regenerate the control statements used by Adabas Review for autostarted reports. For more information, read *Autostarted Reports* in *Adabas Review Concepts Manual*.

Ordinarily, Adabas Review maintenance procedures eliminate the need for users to regenerate these statements. In exceptional circumstances (e.g., the PDS becomes too full and requires compressing), you may either use the `GENAUTO` command or code the parameters manually.

You can issue the command by entering `GENAUTO` or `GA` on the command line of any screen within Adabas Review. A message confirms that the parameter statements have been regenerated.

GENCARD or GC Command

{GENCARD | GC}

The GENCARD command is used to generate batch parameter statements from Adabas Review online reports. The GENCARD command obtains target database information from the List Target Definitions (LT) function.

You can enter either GENCARD or GC on the command line of any screen within Adabas Review. A window appears, prompting you for the DD name of the output file and the report name. For more information, read *Generating Batch Report Parameters in Using Batch Facilities*, in the *Adabas Review User's Guide*. The batch report parameters generated by GENCARD can be copied to the RVUPARM data set and used as input to an Adabas Review batch job.

HC or PRINT Command

```
{HC | PRINT} [report-name]
```



Note: The hard copy facility of Natural must be installed for this command.

The HC or PRINT command is used to send report results to a hard copy printer. The command may be issued from the list of history reports or the list of started reports (LH or LS functions) by entering the command HC on the selection line preceding the report name.

The command may also be entered on the command line of any Adabas Review screen as:

```
HC report-name
```

If the HC or PRINT command is entered on the command line without a report name, the command is applied to the report you last accessed.

For more information, see the section *Printing Report Results* in *Managing Report Output*, in the *Adabas Review User's Guide*.

HELP Command and ? Command



{HELP | ?}

The `HELP` command may be issued from any screen within Adabas Review to obtain online help for that screen. The command provides general information regarding systems and/or functions within Adabas Review.

You can obtain help for a particular screen by either entering the `HELP` command on the command line or pressing `PF1`.

You can obtain help for a particular input field on a screen by entering a `?` on that field. If specific help for that field is not available, the general information supplied for the screen is displayed.

For more information, read *Using the Online Help System in Getting Started*, in *Adabas Review Concepts Manual*.

HUB Command



HUB = hubid

The `HUB` command is used to change the hub database for Adabas Review. It may be entered on the command line of any screen. Specify the database identification number of the new hub database for *hubid*.

The message "HUB has been changed" indicates that the connection between the Adabas Review Natural code and the indicated Adabas Review hub has been successfully established.

If Adabas Review is unable to change to the hub database specified, or if the hub database specified has a version of Adabas Review prior to the current version installed, an error message is displayed describing the condition.

IN Command

The `IN` command is used to display storage and processing information for active Adabas Review reports. It is not available in batch mode.

For more information, see the section *Displaying Active Report Information in Running Reports*, in the *Adabas Review User's Guide*.

LF Command

See the `FIELD` command.

LH Command

The `LH` command is used to list reports that have written history data to the Adabas Review repository. From this list, you can use commands to view, download to a PC, print, or purge history data. In addition, you can edit a report definition and its corresponding display program.

For more information, see the section *Listing History Reports in Managing History Data* in the *Adabas Review User's Guide*.

LOG Command

The LOG command is used in local mode only to dynamically determine (that is, without cycling the system) whether:

- Adabas Review commands are processed in Adabas Review; that is, whether the Adabas Review command processor includes commands issued by the Adabas Review online system in its reports.
- Adabas commands are processed by Adabas Review; that is, whether the Adabas Review command processor includes commands issued by Adabas in its reports.



Note: Changes made by the LOG command are only valid as long as Adabas is running, and are not stored in a file; therefore, the changes remain in effect until Adabas and Adabas Review are restarted.

▶ To switch the value of one or more of these parameters dynamically

- 1 After the Review DB menu, type the LOG command on the command line and press ENTER.

The following window appears:

```

+-----+
|               Review Dynamic Parms               |
|                                                    |
| Process Review Commands.. Y                      |
| Process Adabas Commands.. Y                     |
|                                                    |
| Enter-PF1---PF2---PF3---PF4---PF5---           |
|                               Exit      Update     |
+-----+

```

- 2 Overtyping the current value of one or both parameters with the opposite value.
- 3 Press PF5 to implement the change; press PF3 to close the window. The change remains in effect until Adabas and Adabas Review are restarted.

LOGO Command

The LOGO command displays the Adabas Review Logo screen. The LOGO command may be issued on the command line of any Adabas Review screen.

LOGON Command

```
LOGON library-name
```

The LOGON command is used to exit Adabas Review and log on to the Natural library specified. Note that under Natural Security, your user ID must be defined to the library specified in order to log on to that library. It is not available in batch mode.

LR Command

The LR command is used to list all report definitions. From the list, you can use commands to maintain a report. Such commands are entered on the selection line preceding the name of the report in the list.

For more information, see the section *Listing Report Definitions* in *Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

LS Command

The LS command is used to list all reports that have been started. From the list, you can use commands to suspend, reactivate, close, and refresh a report. You can view, download to a PC, print, or purge report output. Additionally, you can edit a report definition or its corresponding display program.

For more information, see the section *Listing Started Reports* in *Running Reports*, in the *Adabas Review User's Guide*.

LT Command

The `LT` command is used to list the existing target definitions. From the resulting list, the Adabas Review administrator can use commands to edit or purge a target definition.

For more information, see *Displaying SVC Lists and Target Objects* in the *Adabas Review Administration Guide*.

LU Command

The `LU` command is used by Adabas Review administrators to list the user profiles that have been defined. For more information, read *Listing User Profiles* in the *Adabas Review Administration Guide*.

MENU Command

The `MENU` command returns you to the Adabas Review main menu. It may be issued either by entering the command on the command line of any Adabas Review screen, or by pressing `PF12`.

MSG Command

MSG [*message-number*]

The `MSG` command displays detailed explanations of Adabas Review messages. It may be issued on the command line of any Adabas Review screen.

The `MSG` command may be entered with or without specifying a message number. If a message number is not specified, Adabas Review provides information about the last message displayed, unless you have changed the Adabas Review screen or performed a different Adabas Review function since the message was displayed. In this case, specifying the `MSG` command without a message number produces an error.

NAT Command

The `NAT` command is used to exit Adabas Review and return the user to the Natural NEXT prompt, or the Natural main menu, depending on how the system is configured. The `NAT` command is not available in batch mode.

NUCID Command



```
NUCID [ nucid ]
```

Adabas Review can monitor specific nucleus IDs separately when running in local mode through the `NUCID` command. The monitored Adabas nucleus must be a cluster nucleus (for example, you are running Adabas Cluster Services 7.4 or Adabas Parallel Services 7.4).

You can start the same report on each nucleus and then view them separately. To combine the data from a report that runs on multiple nuclei, you must create the report as a history report. The data from each nucleus will be combined only when viewing the history report.

To access a specific nucleus, you must set the target `NUCID` in a similar manner as setting the target `DBID`. The target `DBID` is shown at the top right of each Adabas Review screen and the `NUCID` is shown at the top left of each screen. If you work in local mode on a cluster database without specifying a `NUCID`, you access one `NUCID` at random.

To set a specific `NUCID`, you may choose the `NUCID` from a list of available `NUCID`s or enter it directly. To enter a `NUCID` directly, enter `NUCID nnnnn` in the Adabas Review command line, where `nnnnn` is the nucleus ID.

You can also set the `NUCID` to zero by entering `NUCID` in the Adabas Review command line. In this case, the `NUCID` indicator will be removed from the top left portion of the screen and all Adabas Review transactions will be to the `NUCID` selected by the Adabas command dispatcher.

If you want to select a nucleus from a list of nucleus IDs, read about the [NUC LIST](#) command.

NUC LIST Command



The functionality of this command is the same as that of the `NUCID` command, except that it allows you to select a nucleus ID from a list.

Adabas Review can monitor specific nucleus IDs separately when running in local mode through the `NUC LIST` command. The monitored Adabas nucleus must be a cluster nucleus (for example, you must be running Adabas Cluster Services or Adabas Parallel Services).

You can start the same report on each nucleus and then view them separately. To combine the data from a report that runs on multiple nuclei, you must create the report as a history report. The data from each nucleus will be combined only when viewing the history report.

To choose a nucleus ID from a list of active nucleus IDs, enter `NUC LIST` on the Adabas Review command line. Select a nucleus ID from the list by placing an X in the Sel column next to the nucleus ID and press PF5 to accept the selection.

OPTNS Command

Report options describe additional processing aspects of the report such as whether it is a detail or summary report; whether it will perform physical command logging; or whether the data it collects will be written to the Adabas Review repository and stored as history data.

The `OPTNS` command is used within the `Edit Report Definitions (ER)` function to set these report options, logging options, and history options.

For more information, see the section *Using the Report Options Screen* in *Using the Edit Report (ER) Function*, in the *Adabas Review User's Guide*.

PH Command

The PH command is used within the List History Report (LH) function to purge accumulated history data. This command is issued from the "expanded" Adabas History Reports screen; the EX command must be issued first.

The PH command is entered on the selection line preceding the report name on the expanded History Reports screen.

For more information, see the section *Purging Accumulated History Data* in *Managing History Data*, in the *Adabas Review User's Guide*.

PR Command

The PR command is used within the List Report Definitions (LR) function to purge reports. It is entered from the Report Definitions screen on the selection line preceding the report name.

For more information, see the section *Purging a Report Definition* in *Maintaining Report Definitions*, in the *Adabas Review User's Guide*.

PRINT Command

See the HC command.

PS Command

The PS command is used within the List Started Reports (LS) function to purge the data accumulated by a started report. The command is entered from the Started Reports screen on the selection line preceding the report name.

For more information, see the section *Purging Accumulated Data* in *Managing Report Output*, in the *Adabas Review User's Guide*.

PT Command

The `PT` command is used by Adabas Review administrators within the `List Target Definitions (LT)` function to purge target definitions. The command is issued from the `Target Definitions` screen on the selection line preceding the target's DBID.

For more information, read *Deleting a Target Definition* in the *Adabas Review Administration Guide*.

PU Command

The `PU` command is used by the Adabas Review administrator to delete a user profile. The command is issued from the list of user profiles on the selection line preceding the profile name.

For more information, refer to the section *Purging a User Profile* in the *Adabas Review Administration Guide*.

QUIT Command

See the `FIN` command.

RA Command



```
RA [report-name]
```

When you reactivate a suspended report, it resumes collecting data. The `RA` command is used to reactivate a suspended report. The command may be issued from the Started Reports (LS function) screen, and is entered on the selection line preceding the report name.

The command may also be entered on the command line of any screen within Adabas Review. If it is entered on the command line without a report name, Adabas Review attempts to reactivate the report you last accessed.

For more information, refer to the section *Reactivating Reports in Running Reports*, in the *Adabas Review User's Guide*.

REFRESH or RF Command

```
{REFRESH | RF} [report-name ]
```

The REFRESH or RF command is used to refresh a started report. The REFRESH command purges the accumulated data and restarts the report.

When making changes to a started report, you are prompted to refresh the report when you attempt to start the report again. This is because the name of a report currently accumulating data matches the name of the report you are attempting to start; Adabas Review does not permit reports with duplicate names.

The RF command may be issued from the Started Reports (LS function) screen, and is entered on the selection line preceding the report name.

The RF or REFRESH command may also be entered on the command line of any screen within Adabas Review. If it is entered on the command line without a report name, the command is applied to the report you last accessed.

Because the REFRESH command executes a purge of the accumulated data, a window is displayed, prompting you to confirm the purge request.

For more information refer to the section *Refreshing Reports in Running Reports*, in the *Adabas Review User's Guide*.

REGEN or RG Command

```
{REGEN | RG} [ report-name ]
```

The `REGEN` or `RG` command is used to regenerate the display program that Adabas Review creates when a report is saved.

The `RG` command may be issued from the Report Definitions (LR function) screen, and is entered on the selection line preceding the report name.

The `REGEN` or `RG` command may also be entered on the command line of any screen in Adabas Review. If it is entered on the command line without a report name, the command is applied to the report you last accessed.

For more information, refer to the section *Regenerating a Display Program* in *Maintaining Display Programs*, in the *Adabas Review User's Guide*.

RESET HISTORY FILE Command

If you have used the `CH` command to compress accumulated history report data and the command processing terminates abnormally for any reason, the history file will be locked against further compression attempts for any report by any user.

To remove this lock, and to clean up any unusable compressed data, enter the following on the command line of the Adabas Review main menu:

```
RESET HISTORY FILE
```

If history records were lost as a result of the abnormal termination, the reset program will inform you of this. For more information, see the section *Compressing Accumulated History Report Data* in *Managing History Data*, in the *Adabas Review User's Guide*.

RF Command

See the [REGEN](#) command.

RG Command

See the [REFRESH](#) command.

RULES Command

Report processing rules determine how field values are selected for your report. These rules restrict the accumulated data to certain values or conditions.

The **RULES** command is used within the `Edit Report Definitions (ER)` function to specify and modify processing rules for a report.

For more information, see the section *Using the Report Processing Rules Screen in Using the Edit Report (ER) Function*, in the *Adabas Review User's Guide*.

SAVE Command

When a report definition is saved, it is written to the Adabas Review repository and a Natural display program is generated.

The **SAVE** command is used within the `Edit Report Definitions (ER)` function to write the report to the Adabas Review repository. To save a report, either enter the **SAVE** command on the command line of the Edit Report screen or press **PF5**.

For more information on saving report definitions, read *Saving a Report Definition* in the *Adabas Review User's Guide*.

SETFILE or SET Command

{SETFILE | SET}

The `SETFILE` or `SET` command allows you to access a Adabas Review repository that is different from the one you are currently accessing.

The Adabas Review repository contains user profiles, report definitions, and history data. Depending on how Adabas Review is configured, you may have more than one Adabas Review repository.

The `SETFILE` or `SET` command may be issued from any Adabas Review screen, by entering the command on the command line.

A window is displayed, showing the DBID and FNR of the Adabas Review repository you are currently accessing. To change Adabas Review repositories, type the new DBID and FNR over the existing information and press `ENTER`.

If you enter the information correctly, you receive a message that the Adabas Review file was set successfully.

If you enter an incorrect DBID or FNR, you receive a message indicating the error, and the change is not made.

SORT Command

The `SORT` command is used after the `VIEW` command is issued to dynamically change the setting of the "Display By" report option. The following settings are available within the `SORT` command:

Setting	Sorts the data in . . .	Equivalent to "Display by ..."
Account (Ascend)	ascending order by control break;	SORTED
Number of commands	descending order by the "Number of Commands" column;	USAGE
First summary field	descending order by the first summary field in the report;	SUMFIELD
Account (Descend)	descending order by control break;	SORTEDDE
Date and Time	ascending order by the start date and time of the control break interval;	DATETIME
Physical Sequence	the physical sequence in which it was collected.	LINEAR

You may issue the `SORT` command by first issuing the `VIEW` or `VW` command to display the results of a started report.

On the command line, enter the `SORT` command or press `PF2`. A window is displayed, listing the settings. The current setting is indicated by an arrow (`>`).

You may change the sort setting by placing the cursor on the setting you want to use and pressing `ENTER`. The display of the report results changes according to the sort setting you select.

For more information, refer to the section *Using the SORT Command in Managing Report Output*, in the *Adabas Review User's Guide*.

START or ST Command

`{START | ST} [report-name]`

A report must be started so that it can accumulate data. The `ST` or `START` command is used to start a report. It first executes the `SAVE` command to save the report definition and generate the display program. A started report can be suspended, reactivated, closed, or refreshed from the Started Reports screen (`LS` function).

The `ST` command may be issued from the Report Definitions (`LR` function) screen, by entering the command on the selection line preceding the report name.

The `ST` or `START` command may also be issued from any screen of Adabas Review. If it is issued without a report name, Adabas Review attempts to start the report you last accessed.

For more information on starting reports, read *Starting Reports* in the *Adabas Review User's Guide*.



Note: If you are trying to start a report in hub mode using batch Natural, you must issue the `MENU HUB=hubid` command prior to issuing the `START` command for the report.

SU Command

SU [*report-name*]

By suspending a started report, you stop it from accumulating any further data; however, the data already accumulated is retained. The RA (reactivate) command is used to reactivate a suspended report.

The SU command is used to suspend a started report. It may be issued from the Started Reports screen (LS function) by entering the command on the selection line preceding the report name.

The SU command may also be issued from any screen within Adabas Review. If it is issued without a report name, Adabas Review attempts to suspend the report you last accessed.

For more information, read *Suspending Reports in Running Reports*, in the *Adabas Review User's Guide*.

SWITCH or SW Command

```
{ SWITCH | SW } { LOG | SUM } [ report-name ]
```

The SW or SWITCH command is used to switch to the next command or summary log file defined for a specific report *before* the current log file is filled. This command is only valid for reports that have Adabas Review command logging or summary logging turned on.

If the maximum number of command or summary log files designated for the report is exceeded by this request, Adabas Review will begin writing over the file that contains the oldest data.



Note: This command does not switch the log file for any report other than the one selected.

The SW command may be issued from the Started Reports (LS function) screen by entering the command on the selection line preceding the report name.

The SW or SWITCH command may also be issued from any screen of Adabas Review. If it is issued without a report name, Adabas Review attempts to switch to the next log file for the report you accessed last.

For more information, read *Switching Log Files in Running Reports*, in the *Adabas Review User's Guide*.

TECH Command

The TECH command is used to display Adabas Review environmental and maintenance information. This function is useful in determining the environment in which Adabas Review is executing, and in determining which ZAPs have been applied.

For more information, read *Accessing Technical System Information in Getting Started*, in *Adabas Review Concepts Manual*.

VIEW or VW Command

```
{ VIEW | VW } [report-name]
```

The `VIEW` or `VW` command allows you to view results of a started report or the data accumulated by a history report. The `VW` command may be issued from any list function screen (Report Definitions, Started Reports, or Adabas History Reports) on the selection line preceding the report name.

The `VW` or `VIEW` command may also be issued from any screen within Adabas Review. If it is issued without a report name, the command is applied to the report you last accessed.

For more information, refer to the section *Viewing Report Results* in *Managing Report Output*, in the *Adabas Review User's Guide*.

VW Command

See the `VIEW` command.

2 Field Reference

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This part of the documentation describes the fields that may be used when creating Adabas Review reports using the Edit Report (ER) command.

Field Categories

The fields used in Adabas Review reports are grouped into the following categories:

Code	Category	Includes report fields . . .	Special Considerations
CB	Adabas Control Block Fields	that correspond to or are derived from Adabas control block fields.	---
CLOG	Adabas Command Log Fields	that are derived from the Adabas command log.	---
BUF	Adabas Buffer Fields	that correspond to segments of the format, ISN, record, search, and value buffers.	<p>When you specify a field from this category, Adabas Review automatically requires this information from the Adabas nucleus. This leads to more data to be sent from the Adabas nucleus to Adabas Review.</p> <p>Note: To limit the size of the transferred data the ADARUN REVLOGBMAX or REVLOGMAX parameters can be used. Missing data might also be associated with the setting of these parameters.</p> <p>If you are running Adabas Review in batch, the Adabas nucleus session that created the command log needs to run with the associated ADARUN parameter LOG$\times\times$ parameter. For example, for FBSEG01 you need to specify LOGFB=YES.</p>
IT	Interval and Time Fields	that establish intervals for control breaks. Fields in this category also display specific times for Adabas command processing.	---
I/O	Adabas I/O Fields	for analyzing the I/O operations that are performed against the Adabas associator, data storage, and work data sets.	<p>When you specify a field from this category, Adabas Review automatically requires this information from the Adabas nucleus. This leads to more data to be sent from the Adabas nucleus to Adabas Review and creates additional CPU overhead in the Adabas nucleus address space.</p> <p>If you are running Adabas Review in batch, the Adabas nucleus session that created the command</p>

Code	Category	Includes report fields . . .	Special Considerations
			log needs to run with the associated ADARUN parameter LOGIO=YES.
NAT	Natural Fields	for determining information about the Natural programs issuing Adabas calls.	When you specify a field from this category, you must also specify the Natural profile parameter ADAPRM=ON for your Natural user working environment. If you are running Adabas Review in batch, the Adabas nucleus session that created the command log needs to run with the associated ADARUN parameter LOGCLEX=YES.
NUC	Adabas Nucleus Fields	for analyzing Adabas nucleus information.	If you are running Adabas Review in batch, the Adabas nucleus session that created the command log needs to run with the associated ADARUN parameter LOGCLEX=YES.
OS	Operating System Fields	for displaying operating system-related information.	If you are running Adabas Review in batch, the Adabas nucleus session that created the command log needs to run with the associated ADARUN parameter LOGCLEX=YES.
TP	Transaction Processing Monitor Fields	for displaying information about the transaction processing monitor used with applications issuing Adabas calls.	If you are running Adabas Review in batch, the Adabas nucleus session that created the command log needs to run with the associated ADARUN parameter LOGCLEX=YES.
UF	User Fields	defined by the user that contain user-specified data for reporting.	A maximum of five Adabas Review user fields can be defined, with the names USERFLD1 through USERFLD5.

**Notes:**

- References to an Adabas session pertain to a user's session with Adabas.. References to an Adabas nucleus session pertain to the duration that Adabas is active. When Natural utilities issue Adabas calls, the values of NATLIB, NATPROG, and NATSTMT do not denote user applications objects.
- When a Natural object is invoked by means of a CALLNAT, PERFORM or FETCH statement, Natural may generate Adabas calls to load the invoked programming object into the buffer pool. In such a situation, the value of may be incorrect. Ignore Adabas calls to FNAT and FUSER to avoid misinterpretation of the value.
- When a program is executed by means of the RUN command, the values of NATLIB, NATPROG and NATSTMT may be incorrect, because it is e.g. possible to RUN a nameless object from within the Natural program editor. Use the EXECUTE command to obtain correct values When a Natural programming object contains copy codes, NATSTMT may contain the line number within a copy code.

Alphabetic Listing

The following alphabetic listing of all reporting fields also indicates the category, field length, and the format (B=binary, C=alphanumeric, and T=the first four bytes of store clock value) of each field.



Note: Descriptions of each field can be found in the category field listings. Click on the category name in the following tables to find the description of the field.

A	C	E	G	I	L	N	P	R	T	V	Y
B	D	F	H	J	M	O	Q	S	U	W	Number

-A-

Field System Name	Category	Field Length	Format	Alternate Names	Description
ABALLOC	NUC	4	B	---	The number of bytes of attached buffer space currently used. An attached buffer is an internal buffer used for interregion communication.
ABDATE	NUC	8	C	---	The date (in YYYY-MM-DD format) when the attached buffer high-water mark was reached.
ABENT	NUC	4	B	---	The current number of attached buffer entries.
ABPCT	NUC	4	B	---	The maximum percentage of attached buffer space used during the Adabas nucleus session.
ABSIZE	NUC	4	B	---	The total amount (in bytes) of attached buffer space allocated at Adabas nucleus startup.
ABTIME	NUC	8	C	---	The time (in HH:MM:SS format) that the attached buffer high-water mark was reached.
ABUSED	NUC	4	B	---	The maximum number (in bytes) of attached buffer space used during the Adabas nucleus session.
ACBUSER	CB	4	B	---	This field, comprising the last four bytes of the ACB, contains user data that is passed with the Adabas call. It is referred to as the <code>user area</code> field in the ACB, and is neither used nor modified by Adabas.
ACCTINF2	OS	16	C	---	Accounting information about the user that issued the Adabas call for z/OS batch jobs. This field will contain the second value specified in the account field of the job card.

Field System Name	Category	Field Length	Format	Alternate Names	Description
ACCTINFO	OS	16	C	---	Accounting information about the user that issued the Adabas call. For z/OS batch jobs, the field will contain the first value specified in the account field of the job card. For Com-plete users, the field will contain the account information specified in the user's Com-plete profile.
ACINAME	TP	8	C	CURENPGM	The program name of the Adabas CICS link routine for the DCI interface: ADADCI.
ADADURA	IT	4	B	---	Adabas duration. Corresponds to the DURATION field. This field contains the amount of time (in seconds) that the command spent in the Adabas thread, including the time spent waiting for the completion of I/O operations. The ADADURA field differs from the DURATION field in that the time is computed to 6 decimal places instead of 4 decimal places.
AD1	CB	8	B	ADD1 ADDIT1	Alternate name for ADDIT1.
AD2	CB	4	B	ADD2 ADDIT2	Alternate name for ADDIT2.
AD3	CB	8	B	ADD3 ADDIT3	Alternate name for ADDIT3.
AD4	CB	8	B	ADD4 ADDIT4	Alternate name for ADDIT4.
AD5	CB	8	B	ADD5 ADDIT5	Alternate name for ADDIT5.
ADD1	CB	8	B	AD1 ADDIT1	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT1.
ADD2	CB	4	B	AD2 ADDIT2	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT2.
ADD3	CB	8	B	AD3 ADDIT3	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT3.
ADD4	CB	8	B	AD4 ADDIT4	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT4.
ADD5	CB	8	B	AD5 ADDIT5	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT5.

Field System Name	Category	Field Length	Format	Alternate Names	Description
ADDIT1	CB	8	B	ADD1 (used in summary record) AD1	Corresponds to the ACB field <i>additions 1</i> . The command to be executed determines whether this field is used and what the contents represent.
ADDIT2	CB	4	B	ADD2 (used in summary record) AD2	<p>Corresponds to the ACB field <i>additions 2</i>. The command to be executed determines whether this field is used and what the contents represent.</p> <p>When ADARUN parameter CLOGLAYOUT is set to 8, the content of this field is taken from the ACBX structure. Note that there are differences in meaning of the <i>Additions 2</i> field in the ACBX and in the ACB. In the ACBX, some information that was formally available in the ACB is no longer available. For example, the error-related subcode information that was originally provided in the <i>Additions 2</i> in the ACB is now no longer provided in the ACBX control block structure; instead, the subcode is provided in the Adabas ACBXSUBS (Subcomponent Response Subcode) field. Therefore, in Adabas Review, if the ADARUN parameter CLOGLAYOUT is set to 8, you will find the information from the older ACB structure in the following separate Adabas Review fields:</p> <ul style="list-style-type: none"> ■ CMPRECL contains the compressed record length. ■ ERRFLDNM contains the error field name. ■ RSPSUB contains the subcode for an Adabas response code. ■ UCMPREL contains the uncompressed record length.
ADDIT3	CB	8	B	ADD3 (used in summary record) AD3	Corresponds to the ACB field <i>additions 3</i> . The command to be executed determines whether this field is used and what the contents represent.
ADDIT4	CB	8	B	ADD4 (used in summary record) AD4	Corresponds to the ACB field <i>additions 4</i> . The command to be executed determines whether this field is used and what the contents represent.

Field System Name	Category	Field Length	Format	Alternate Names	Description
ADDIT5	CB	8	B	ADD5 (used in summary record) AD5	Corresponds to the ACB field additions 5. The command to be executed determines whether this field is used and what the contents represent.
ASSOIO	CLOG	2	B	ASSO-IO	The number of asynchronous Associator read I/Os for this command.
ASSO-IO	CLOG	2	B	ASSOIO	Alternate name for ASSOIO.
ASSOREAD	I/O	4	B	----	Associator read. The total number of Associator read I/Os that occurred during the Adabas session. This value is updated every minute and not when each command is issued.
ASSOWRIT	I/O	4	B	---	Associator write. The total number of Associator write I/Os that occurred during the Adabas session. This value is updated every minute and not when each command is issued.

-B-

Field System Name	Category	Field Length	Format	Alternate Names	Description
BUFFEFF	NUC	4	B	---	Buffer efficiency. Contains the ratio of the number of calls to the Adabas buffer pool manager to the number of Adabas physical read requests made to the Associator and the Data Storage devices. For example, if the number of read I/Os is 100 and the number of calls to the buffer pool manager is 500, the buffer efficiency is 500/100 or 5. The higher the buffer efficiency number, the more efficient is the use of buffer space. If the buffer efficiency number is low, it is recommended that you increase the LBP (length of buffer pool) ADARUN parameter.
BUFFLUSH	NUC	4	B	---	The number of times that the Adabas buffer pool (LBP) was flushed during the Adabas nucleus session.
BUFFWAIT	NUC	4	B	---	The number of times that Adabas Review had to wait for a buffer.

-C-

Field System Name	Category	Field Length	Format	Alternate Names	Description
CALLPGM	TP	8	C	---	<p>The program that executed the last EXEC CICS LINK or XCTL command.</p> <ul style="list-style-type: none"> ■ In non-DCI situations, this is the program calling the Adabas CICS link routine via EXEC CICS LINK ■ In DCI interface situations (used by Natural), this is the name of the executing program if there was no previous EXEC CICS LINK or, if there was a previous EXEC CICS LINK, the name of the program that executed the last EXEC CICS LINK.
CALLTYPE	CLOG	8	C	---	<p>Contains the type of the Adabas call that was issued. Possible values are:</p> <ul style="list-style-type: none"> ■ "PHYSICAL": indicates a standard Adabas call ■ "REMOTE": indicates a call arriving via Entire Net-Work.
CID	CB	8	C	---	<p>Corresponds to the hexadecimal value of the ACB field <code>command ID</code>. This field serves important functions, determined by the command, during command execution. For example, during a sequential read, the command ID is used to return the records to the user in the proper sequence. This field displays the value of the CID in hexadecimal format (for example, if CID=ABCD, it is displayed in this field as "C1C2C3C4").</p>
CIDALPHA	CB	4	C	---	<p>Corresponds to the alphanumeric value of the ACB field <code>command ID</code>. This field serves important functions, determined by the command, during command execution. For example, during a sequential read, the command ID is used to return the records to the user in the proper sequence. This field displays the value of the CID in alphanumeric format.</p>
CMD	CB	2	C	COMMAND	Corresponds to the ACB field <code>command code</code> .
CMDNAME	CB	14	C	CNAME	A translation of the 2-byte Adabas command code to a 14-byte string. For example, the command code BT is translated to "Backout Trans".
CMDRESP	CB	4	B	CMDRSP MCR	The time, in milliseconds, required to process the Adabas call. In the command table, Adabas Review stores the minimum Adabas duration for each

Field System Name	Category	Field Length	Format	Alternate Names	Description
					<p>command type returning a zero response code. The command table is updated whenever a lower duration value is encountered. Command response time is thus based on the <code>command time</code> field in the Adabas command log.</p> <p>The values for CMDRESP in the history file are automatically stored in seconds. To display them correctly, they must be converted to milliseconds. For more information on this conversion, read <i>Migration from Previous Versions</i>, in the <i>Adabas Review Release Notes</i>.</p> <p>If you need to continue using the old scale and the old calculation algorithm for history data, contact your Software AG support representative.</p> <p>Due to changes in the display programs in SYSREVDDB, you cannot use SYSREVDDB in Adabas Review 4.4 (or earlier versions) to display the field contents of CMDRESP correctly, unless you stay with the old scale and algorithm.</p>
CMDRSP	CB	4	B	CMDRESP MCR	Alternate name for CMDRESP.
CMDSTAT	CB	8	C	---	Contains the Adabas internal status for an Adabas command. For example, the Adabas command L3 has an internal status of SIMPLE and S1 has an internal status of COMPLEX.
CMDTYPE	CLOG	1	B	TYPECMD CMD-TYPE	The 1-byte <code>command type</code> field of the Adabas command log record that describes the internal Adabas status for the command. For example, a command type of 01 is a simple command and a command type of 42 is a complex command. The CMDSTAT field provides this translation.
CMD-TYPE	CLOG	1	B	CMDTYPE TYPECMD	Alternate name for CMDTYPE.
CMPRECL	CB	2	B	---	Contains the compressed record length of the record returned by a READ or a FIND command.
CNAME	CB	14	C	CMDNAME	Alternate name for CMDNAME.
COMMAND	CB	2	C	CMD	Alternate name for CMD.
COMMANDS	CB	8	B	---	The number of Adabas commands processed for the control break.

Field System Name	Category	Field Length	Format	Alternate Names	Description
COP1	CB	1	C	OP1	Corresponds to the ACB field command option 1. The contents of this field is determined by the command being issued.
COP2	CB	1	C	OP2	Corresponds to the ACB field command option 2. The contents of this field is determined by the command being issued.
CPUID	OS	8	B	---	The internal identifying serial number of the CPU from which the Adabas call was issued. Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).
CQALLOC	NUC	4	B	---	The number of bytes of command queue space currently used.
CQDATE	NUC	8	C	---	The date (in YYYY-MM-DD format) when the command queue high-water mark was reached.
CQDURA	IT	4	B	---	Command queue duration. Contains the amount of time (in seconds) that a command waited in the command queue before being dispatched into an Adabas thread.
CQENT	NUC	4	B	---	The current number of command queue entries.
CQEUID	TP	28	B	---	Contains the 28-byte Adabas communication user ID for the user who issued the Adabas call. Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).
CQJOB	NUC	8	C	---	The job or started task name for the user obtained from the user's command queue element.
CQMAXENT	NUC	4	B	---	The maximum number of entries that have been in the command queue for the Adabas nucleus session.
CQPCT	NUC	4	B	---	The maximum percentage of command queue space used during the Adabas nucleus session.
CQSIZE	NUC	4	B	---	The total number of bytes of command queue space allocated at Adabas nucleus startup.
CQTIME	NUC	8	B	---	The time (in HH:MM:SS format) when the command queue high-water mark was reached.
CQUQADDR	NUC	8	B	---	The address of the User Queue Element found in the CQE.

Field System Name	Category	Field Length	Format	Alternate Names	Description
CQUSED	NUC	4	B	---	The maximum number of bytes of command queue space used during the Adabas nucleus session.
CURENPGM	TP	8	C	ACINAME	Alternate name for ACINAME.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
DATAIO	CLOG	2	B	DATA-IO	The number of asynchronous Data Storage read I/Os for this command.
DATA-IO	CLOG	2	B	DATAIO	Alternate name for DATAIO.
DATAREAD	I/O	4	B	---	The total number of Adabas Data Storage read I/Os for the Adabas session. This value is updated every minute and not when each command is issued.
DATAWRIT	I/O	4	B	---	The total number of Adabas Data Storage write I/Os for the Adabas session. This value is updated every minute and not when each command is issued.
DATE	IT	8	C	---	The date (in YYYY-MM-DD format) when the Adabas command was processed.
DAY	IT	1	B	---	The day number (within a month) when the Adabas command was processed.
DBID	CB	2	B	---	The unique Adabas database identification number.
DBNAME	NUC	16	C	---	The 16-character name assigned to the database when it was created.
DES	CLOG	2	B	DESUPD	Alternate name for DESUPD.
DESUPD	CLOG	2	B	DES	Contains the number of descriptors that were updated for an Adabas call.
DUR	CLOG	4	B	DURATION DURAT	Alternate name for DURATION.
DURAT	CLOG	4	B	DURATION DUR	Alternate name for DURATION.
DURATION	CLOG	4	B	DURAT DUR	The amount of time that the command spent in the Adabas thread, including time spent waiting for I/O operations to complete. This field is expressed in seconds and is accurate to 4

Field System Name	Category	Field Length	Format	Alternate Names	Description
					decimal places. The field ADADURA contains the same value accurate to 6 decimal places.

-E-

Field System Name	Category	Field Length	Format	Alternate Names	Description
ENDDATE	IT	4	T	---	The date (in YYYY-MM-DD format) when the last Adabas command was processed for a user or a job.
ENDTIME	IT	4	T	---	The time (in 24-hour format) when the last Adabas command was processed for a user or a job.
ERRFLDNM	CB	2	C	---	Error field name. Contains the Adabas 2-character name for a field that has been found to be in error in the Adabas format or search buffer.
ETID	TP	8	C	---	The Adabas ET (end transaction) ID that was established during the OP (open) call to Adabas.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
FB	BUF	32	C	---	The contents of the Adabas format buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole format buffer is displayed. The FBSEG nn field may be used to display parts of the format buffer if it is more than 32 bytes long. Only one FBSEG nn field is allowed for each report.
FBFIELDS	BUF	2	C	FBF	Format buffer fields. Contains the Adabas 2-character name for each field contained in the Adabas format buffer. This field can only be used in Summary reports.
FBL	BUF	2	B	---	Corresponds to the ACB field format buffer length. The contents of this field is determined by the Adabas command issued.
FBSEG nn	BUF	64	C	---	Represents a format buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field FBSEG01 you obtain the first 64 bytes of the format buffer. The segment number may be a value

Field System Name	Category	Field Length	Format	Alternate Names	Description
					between 01 and 32, inclusive. The field FBSEGnn is available for summary reports only; use the field FB for detail reports.
FILE	CB	2	B	FNR (used in summary record)	Corresponds to the ACB field <code>file</code> number. The function of this field is determined by the Adabas command being issued.
FILENAME	NUC	16	C	---	Contains the 16-character name assigned to the Adabas file, and is obtained from the Adabas file control block (FCB). If the file name is not available, the field contains "FCB-UNAVAILABLE".
FILETYPE	NUC	6	C	---	Contains the 6-character type assigned to the Adabas file. This field contains the string "USER" if the file is a user file or "SYSTEM" if the Adabas Checkpoint file was read or updated.
FNR	CB	2	B	FILE	This name is used in the schema portion of the summary record . It is an alternate name for FILE.
FORMATOW	NUC	4	B	---	The total number of Adabas internal format overwrites that have occurred during the Adabas nucleus session.
FORMATTR	NUC	4	B	---	The total number of Adabas internal format translations that have occurred during the Adabas nucleus session.
FULLSTCK	IT	8	T	---	The 8-byte store clock value taken when the Adabas command was processed.

-G-

Field System Name	Category	Field Length	Format	Alternate Names	Description
GLOBFMID	CB	8	B	---	Contains the global internal format buffer ID for the Adabas call within a sequence of Adabas calls. This field is derived from ADDIT5 field.

-H-

Field System Name	Category	Field Length	Format	Alternate Names	Description
HOLDISN	NUC	2	B	---	The numbers of ISNs which are in HOLD status by the user at the time this command is executed. The number is obtained after the execution of this command.
HOUR	IT	5	C	HR	The hour (in 24-hour format) when the Adabas command was processed.
HQDATE	NUC	8	C	---	The date (in YYYY-MM-DD format) that the hold queue high-water mark was reached.
HQENT	NUC	4	B	---	The current number of hold queue entries.
HQPCT	NUC	4	B	---	The maximum percentage of hold queue space used during the Adabas nucleus session.
HQSIZE	NUC	4	B	---	The total number of bytes allocated to the hold queue at Adabas nucleus startup.
HQTIME	NUC	8	C	---	The time (in HH:MM:SS format) that the hold queue high-water mark was reached.
HQUSED	NUC	4	B	---	The maximum number of bytes of hold queue space used during the Adabas nucleus session.
HQUSRENT	NUC	4	B	---	The number of hold queue user entries.
HR	IT	5	C	HOUR	Alternate name for HOUR.

-I-

Field System Name	Category	Field Length	Format	Alternate Names	Description
IB	BUF	32	C	---	The contents of the Adabas ISN buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole ISN buffer is displayed. The IBSEG nn field may be used to display parts of the ISN buffer if it is more than 32 bytes long.
IBL	BUF	2	B	---	Corresponds to the ACB field ISN buffer length. The use of this field is determined by the command being issued.
IBSEG nn	BUF	64	C	---	Represents an ISN buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field IBSEG01, you obtain the first 64 bytes of the ISN buffer. The segment number may be a value between 01 and 32,

Field System Name	Category	Field Length	Format	Alternate Names	Description
					inclusive. The field IBSEGnn is available for summary reports only; use the field IB for detail reports.
IO	I/O	2	B	IOS	This name is used in the schema portion of the summary record . It is an alternate name for IOS.
IOS	I/O	2	B	IO (used in summary record)	The total number of I/Os for the command processed; it is the sum of ASSOIO, DATAIO and WORKIO.
IOCOMP	I/O	3	C	---	Identifies the Adabas component against which the I/O was issued. For example, if the I/O is issued against Data Storage extent 1, the field contains DS1. If the I/O is issued against address converter extent 3, the field contains AC3.
IOFUNC	I/O	5	C	---	The type of I/O operation performed against an Adabas component. The values for this field are "READ" or "WRITE".
IOLIST	I/O	10	C	---	The hexadecimal I/O list for a command obtained from the Adabas command log record. Four bytes are allocated for each I/O list entry.
IOPHYS	I/O	16	C	---	A translation of the I/O list entry from the Adabas command log record. The format for this field is <i>comp-x nnnnnn</i> , where: <i>comp</i> is the Adabas component (ASSO, DATA, or WORK) <i>x</i> is the type of I/O, ("R" for read or "W" for write) <i>nnnnnn</i> is the RABN (relative Adabas block number)
IORABN	I/O	8	C	---	The relative Adabas block number against which the I/O was performed.
IOTOCMD	I/O	4	B	---	The ratio of the total number of I/O operations performed to the total number of commands processed.
IOTYPE	I/O	4	C	---	Identifies the component against which the I/O operation was performed. Values for this field may be ASSO 'Associator', DATA 'Data Storage', or WORK 'Work data set'.
IOVOLSER	I/O	6	C	---	Contains the volume serial number against which the I/O operation was performed. This field may be used to show Adabas I/O distribution.
ISN	CB	4	B	---	Corresponds to the ACB field ISN. The use of this field is determined by the command being issued.
ISNLL	CB	4	B	---	Corresponds to the ACB field ISN lower limit. The field contains the lowest ISN that Adabas returns when retrieving ISN lists. The use of this field is determined by the command being issued.

Field System Name	Category	Field Length	Format	Alternate Names	Description
					Note: This field could be misinterpreted when used at the OP command, since the value of ISNLL as well as ISNQ are used for purposes other than the ISN lower limit or ISN quantity. Please refer to the Adabas Command Reference manual for further information.
ISNQ	CB	4	B	---	<p>Corresponds to a modification of the ACB field ISN quantity. The field is modified based on command type, and is suitable for performing mathematical calculations such as SUM and AVERAGE. The unmodified data can be found in the ORGISNQ field.</p> <p>Note: This field could be misinterpreted when used at the OP command, since the value of ISNQ as well as ISNLL are used for purposes other than the ISN lower limit or ISN quantity. Please refer to the Adabas Command Reference manual for further information.</p>

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Field System Name	Category	Field Length	Format	Alternate Names	Description
JMREDATE	OS	10	C	---	The date (in YYYY-MM-DD format) when the batch job was entered in JES or from the job information macro.
JOB	OS	8	C	JOBNAME	Alternate name for JOBNAME.
JOBCLASS	OS	1	B	---	(z/OS only) The one-byte character of the CLASS parameter in the job card.
JOBID	OS	8	C	---	<p>A combination of the job identifier and the job number of the user who issued the Adabas call. This field is available under z/OS and z/VSE:</p> <ul style="list-style-type: none"> ■ Under z/OS, the field will contain JOB, STC, or TSU as the job identifier followed by a 5-byte JES job number. ■ Under z/VSE, the field will contain JOB as the identifier, followed by the 5-byte POWER job number.
JOBNAME	OS	8	C	JOB	The name of the job or task from which the Adabas call was issued. This field is the contents of the JOBNAME from the Adabas command log record and may not reflect the actual JOBNAME of the task that issued the Adabas call.

Field System Name	Category	Field Length	Format	Alternate Names	Description
JOBNUM	OS	5	C	---	The job number of the user who issued the Adabas call. This field is available under z/OS and z/VSE. The field will contain an alphanumeric, 5-byte value for the JES (z/OS) or POWER (z/VSE) job number.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
LEVEL	NAT	2	B	NATLEVEL	Alternate name for NATLEVEL.
LFPALLOC	NUC	4	B	---	The number of bytes currently used in the format pool.
LFPENT	NUC	4	B	---	The current number of entries in the format pool.
LFPMAX	NUC	4	B	---	The maximum number of bytes of format pool space used during the Adabas nucleus session.
LFP PCT	NUC	4	B	---	The maximum percentage of format pool space used during the Adabas nucleus session.
LFP SIZE	NUC	4	B	---	The total number of bytes allocated to the format pool at Adabas nucleus startup.
LFP USED	NUC	4	B	---	The maximum number of bytes of format pool space used during the Adabas nucleus session.
LIB	NAT	8	C	NATLIB	Alternate name for NATLIB.
LOG	NAT	8	C	NATAPPL LOGON	This name is used in the schema portion of the summary record . It is an alternate name for NATAPPL.
LOGON	NAT	8	C	NATAPPL LOG (used in summary record)	Alternate name for NATAPPL.
LPARNAME	OS	8	C	---	The system LPAR or partition name (in z/OS or z/VSE environments) or the environment name from the job information macro (in BS2000 environments).
LUNAME	OS	8	C	---	The VTAM LU (logical unit) name of the user who issued the Adabas call. If the TP system is Com-plete, the LUNAME field contains the Com-plete ID: <ul style="list-style-type: none"> ■ The first 3 bytes of the ID represent the Com-pass stack level ■ The fourth byte is the Com-plete patch character

Field System Name	Category	Field Length	Format	Alternate Names	Description
					<ul style="list-style-type: none"> The last 4 bytes identify the Complete terminal ID number in hexadecimal format. <p>Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).</p>
LWPALLOC	NUC	4	B	---	The number of bytes of the work pool currently in use.
LWPENT	NUC	4	B	---	The current number of work pool entries.
LWPMAX	NUC	4	B	---	The maximum number of bytes of work pool space used during the Adabas nucleus session.
LWPMXENT	NUC	4	B	---	The maximum number of work pool entries used during the Adabas nucleus session.
LWPPCT	NUC	4	B	---	The maximum percentage of work pool space used during the Adabas nucleus session.
LWPSIZE	NUC	4	B	---	The number of bytes that were allocated to the work pool at Adabas nucleus startup.
LWPUSED	NUC	4	B	---	The maximum number of bytes of work pool space used during the Adabas nucleus session.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
M15	IT	5	C	15M	Alternate name for 15M.
M5	IT	5	C	5M	Alternate name for 5M.
MCR	CB	4	B	CMDRESP CMDRSP	Alternate name for CMDRESP.
MIN	IT	5	C	1M MINUTE	Alternate name for 1M.
MINUTE	IT	5	C	1M MIN	Alternate name for 1M.
MO	IT	1	B	MONTH MON	Alternate name for MONTH.
MON	IT	1	B	MON MO	Alternate name for MONTH.

Field System Name	Category	Field Length	Format	Alternate Names	Description
MONAME	IT	3	C	---	The name of the month when the Adabas command was processed.
MONTH	IT	1	B	MON MO	The number of the month when the Adabas command was processed.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
NATAPPL	NAT	8	C	LOGON LOG (used in summary record)	The Natural application name (or library) to which the user issued a LOGON. This field does not necessarily show the library of the Natural object from which the Adabas call is issued. Under SQL, this field contains the library name.
NATCLTID	NAT	8	C	---	NATCLTID displays the client user ID of a user using a Natural server. NATCLTID only contains a value if an RPC client request is executed in a Natural RPC server session. In all other cases the field is empty.
NATCOUNT	NAT	2	B	---	The total number of Adabas calls generated by the user application since the last terminal I/O.
NATEXEC	NAT	2	B	---	The number of times a Natural object that issues Adabas calls has been executed. NATCOUNT is "1" if the Natural object has issued an Adabas call for the first time on this level; value is zero otherwise.
NATGRP	NAT	8	C	---	The current Natural security group to which the user belongs.
NATLEVEL	NAT	2	B	LEVEL	The Natural call level of the Natural program issuing the Adabas call. For example, a CALLNAT routine that is called from a program and issues an Adabas call has a Natural level of 2.
NATLIB	NAT	8	C	LIB	The name of the Natural library where the object is located that is currently executed.
NATPROG	NAT	8	C	PROGRAM PRO (used in summary record)	The name of the Natural program that issued the Adabas call. When Natural internally issues Adabas calls to load Natural objects, this value is not updated. Under SQL, this field contains the program name.
NATRPCID	NAT	16	C	---	The 16-byte alphanumeric value for the store clock value used as identification of the Natural RPC Server.

Field System Name	Category	Field Length	Format	Alternate Names	Description
NATRPCCO	NAT	16	C	---	The 16-byte alphanumeric value of the conversation ID from the Natural RPC Server.
NATSTMT	NAT	4	C	---	The Natural statement number for the Adabas command processed. This field is derived from the Adabas command ID (CID).
NATUID	NAT	8	C	---	The name of the Natural library to which the user is currently logged on. This is the value of the Natural system variable *APPLIC-ID.
NUCID	NUC	3	B	SMP (used in summary record)	The ID of an Adabas nucleus in an Adabas Parallel Services or Adabas Cluster Services environment.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
OP1	CB	1	C	COP1	Alternate name for COP1.
OP2	CB	1	C	COP2	Alternate name for COP2.
OPSYSID	OS	4	B	---	The operating system ID. The address of the ASCB (address space control block) for the job or task that issued the Adabas call. Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).
OPSYSNAM	OS	8	C	---	The operating system name (SYSNAME) that is specified in the SYS1.PARMLIB and which will be obtained from the CVT (in z/OS environments) or the operating system name and version number (in BS2000 environments).
ORGDURA	CLOG	4	B	---	The (original) value of the "duration" field contained in the command log record. The time is expressed in units of 16 microseconds.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
PRI	CLOG	1	B	PRIORITY PRIO	Alternate name for PRIORITY.
PRIO	CLOG	1	B	PRIORITY PRI	Alternate name for PRIORITY.
PRIORITY	CLOG	1	B	PRI PRIO	The operating system priority for the user issuing the Adabas call.
PRO	NAT	8	C	NATPROG PROGRAM	This name is used in the schema portion of the summary record . It is an alternate name for NATPROG.
PROGRAM	NAT	8	C	NATPROG PRO (used in summary record)	Alternate name for NATPROG.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
QTR	IT	1	B	QUARTER QUAR	Alternate name for QUARTER.
QUAR	IT	1	B	QUARTER QTR	Alternate name for QUARTER.
QUARTER	IT	1	B	QUAR QTR	The quarter of the year in which the Adabas command was processed.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
RB	BUF	32	C	---	The contents of the Adabas record buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole record buffer is displayed.

Field System Name	Category	Field Length	Format	Alternate Names	Description
					The RBSEG nn field may be used to display parts of the record buffer if it is more than 32 bytes long.
RBL	BUF	2	B	---	Corresponds to the ACB field <code>record buffer length</code> . The record buffer is used primarily with read, search, and update commands.
RBSEG nn	BUF	64	C	---	Represents a record buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field RBSEG01, you obtain the first 64 bytes of the record buffer. The segment number may be a number between 01 and 32, inclusive. The field RBSEG nn is available for summary reports only; use the field RB for detail reports.
RESPONSE	CB	2	B	RSP (used in summary record) RC	Corresponds to the ACB field <code>response code</code> . A response code of 0 indicates that the command executed successfully.
ROUETIME	OS	8	B	---	The amount of time between the time a command was issued by the application and the time it was queued in the Adabas command queue. For Adabas 8.1 and earlier, this field is expressed in seconds; for Adabas 8.2 and later releases, this field is expressed in milliseconds.
RSP	CB	2	B	RESPONSE	This name is used in the schema portion of the summary record . It is an alternate name for RESPONSE.
RSPSUB	CB	4	B	---	Contains the Adabas response code subcode from the ACB field <code>Additions 2</code> or the ACBX field <code>ACBXERRC</code> for certain nonzero Adabas response codes.

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Field System Name	Category	Field Length	Format	Alternate Names	Description
SB	BUF	32	C	---	The contents of the Adabas search buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole search buffer is displayed. The SBSEG nn field may be used to display parts of the search buffer if it is more than 32 bytes long.
SBFIELDS	BUF	2	C	---	Search buffer fields. Contains the Adabas 2-character field name for each field contained in the Adabas

Field System Name	Category	Field Length	Format	Alternate Names	Description
					search buffer. This field can only be used in Summary reports.
SBL	BUF	2	B	---	Corresponds to the ACB field search buffer length.
SBSEG nn	BUF	64	C	---	Represents a search buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field SBSEG01, you obtain the first 64 bytes of the search buffer. The segment number may be a number between 01 and 32, inclusive. The field SBSEG nn is available for summary reports only; use the field SB for detail reports.
SECGID	TP	8	C	---	Contains the security system group ID for the user who issued the Adabas call. This field is available under z/OS when the user is running with an external security system (RACF, ACF2, or Top Secret).
SECUID	TP	8	C	---	Contains the security system user ID for the user who issued the Adabas call. This field is available under z/OS when the user is running with an external security system (RACF, ACF2, or Top Secret).
SEQ	CLOG	4	B	SEQUENCE	Alternate name for SEQUENCE.
SEQUENCE	CLOG	4	B	SEQ	The Adabas command sequence number. The value is incremented by one for each Adabas command processed.
SMP	NUC	3	B	NUCID	This name is used in the schema portion of the summary record . It is an alternate name for NUCID.
SRCHTYPE	CLOG	8	C	---	The type of search or search algorithm. If this field contains the value 'NONDES', a nondescriptor search occurred.
STEPNAME	OS	8	C	---	The name of the job step or task step that issued the Adabas call. This step is only available in z/OS environments.
STRTDAT	IT	4	T	---	The date (in YYYY-MM-DD format) when the first Adabas command was processed within the current report control break.
STRTTIME	IT	4	T	---	The time (in 24-hour format) when the first Adabas command was processed within the current report control break.
SVC	NUC	1	B	---	The Adabas SVC (supervisor call) number used for interregion communication between the user's address space and the Adabas nucleus address space.

Field System Name	Category	Field Length	Format	Alternate Names	Description
SYSCMD	NUC	4	B	---	The number of Adabas system commands that have been executed. Adabas system commands execute in Adabas threads 0 and -1.

-T-

Field System Name	Category	Field Length	Format	Alternate Names	Description
THD	CLOG	1	B	THREAD	Alternate name for THREAD.
THDNUM	NUC	4	B	---	The number of 8K Adabas threads in the nucleus. The number includes the two Adabas system threads (threads 0 and -1).
THREAD	CLOG	1	B	THD	The Adabas thread number in which the Adabas command was processed.
THREADSW	NUC	4	B	---	The number of thread switches that have occurred during the Adabas nucleus session.
THROWBKS	NUC	4	B	---	The number of command throwbacks that have occurred during the Adabas nucleus session. Throwbacks occur when the record you wish to retrieve has been placed on hold by another user. The command you issued is placed on the command queue ("thrown back") for reprocessing.
TIALLOC	NUC	4	B	---	The number of bytes of LI (ISN list table) space currently used.
TID	TP	2	B	---	The Complete terminal ID number of the user who issued the Adabas call.
TIDATE	NUC	8	C	---	The date (in YYYY-MM-DD format) when the LI (ISN list table) high-water mark was reached.
TIENT	NUC	4	B	---	The current number of entries used in the LI (ISN list table).
TIME	IT	8	C	---	The time (in 24-hour format) when the first Adabas call was processed.
TIPCT	NUC	4	B	---	The maximum percentage of LI (ISN list table) space used during the Adabas nucleus session.
TISIZE	NUC	4	B	---	The number of bytes allocated to the LI (ISN list table) at Adabas nucleus startup.
TITIME	NUC	8	C	---	The time (in HH:MM:SS format) that the LI (ISN list table) high-water mark was reached.
TIUSED	NUC	4	B	---	The maximum number of bytes of LI (ISN list table) space used during the Adabas nucleus session.

Field System Name	Category	Field Length	Format	Alternate Names	Description
TOTALCMD	NUC	4	B	---	The total number of Adabas system and user commands that have been processed during the Adabas nucleus session.
TOTALIOS	I/O	4	B	---	Contains the total number of I/Os performed against all Adabas components for the Adabas session; the sum of ASSOREAD, ASSOWRIT, DATAREAD, DATAWRIT, WORKREAD, and WORKWRIT. This value is updated every minute and not when each command is issued.
TOTDURA	IT	4	B	---	Total duration. Contains the amount of time the command was in the Adabas thread plus the amount of time the command waited in the command queue. The TOTDURA field is the sum of the ADADURA and CQDURA field values expressed in seconds.
TPTRANCT	TP	4	B	---	<p>A transaction count field. Possible values for this field are either "1" or "0" (zero).</p> <p>A transaction is started with a TP terminal read and completed with a TP terminal write. For the first command of a transaction by a user, this field is set to "1". For all subsequent calls of the same transaction for the same user, this field is set to "0".</p> <p>This field is most useful as a SUM field in conjunction with the field TRANSID. Used in this manner, you can determine the work rate per transaction.</p>
TPTRANNM	TP	4	B	---	The transaction number as established by the user's TP system for the transaction that issued the Adabas call.
TPUSER	TP	8	C	TPUSERID	Alternate name for TPUSERID.
TPUSERID	TP	8	C	TPUSER	The user ID on the TP monitor from which the Adabas call was issued.
TRANSID	TP	8	C	---	The name of the root transaction or program that issued the Adabas call.
TRUENAME	TP	8	C	---	The name of the Adabas CICS link routine TRUE exit.
TSALLOC	NUC	4	B	---	The number of bytes in the LQ (table of sequential commands) currently being used.
TSDATE	NUC	8	C	---	The date (in YYYY-MM-DD format) when the LQ (table of sequential commands) high-water mark was reached.
TSENT	NUC	4	B	---	The current number of entries in the LQ (table of sequential commands).

Field System Name	Category	Field Length	Format	Alternate Names	Description
TSPCT	NUC	4	B	---	The maximum percentage of LQ (table of sequential commands) space used during the Adabas nucleus session.
TSSIZE	NUC	4	B	---	The number of bytes allocated to the LQ (table of sequential commands) at Adabas nucleus startup.
TSTIME	NUC	8	C	---	The time (in HH:MM:SS format) when the LQ (table of sequential commands) high-water mark was reached.
TSUSED	NUC	4	B	---	The maximum number of bytes used in the LQ (table of sequential commands) during the Adabas nucleus session.
TYPECMD	CLOG	1	B	CMDTYPE CMD-TYPE	Alternate name for CMDTYPE.

-U-

Field System Name	Category	Field Length	Format	Alternate Names	Description
UBUID	TP	8	C	---	Contains the last 8 bytes of the 28-byte Adabas communication ID (CQEUID) for the user who issued the Adabas call. Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).
UCMPRECL	CB	2	B	---	Uncompressed record length. The uncompressed length of the Adabas format or search buffer field.
UOWID	TP	8	C	---	Contains the instance number and the sequence number of the CICS field NETUOWID, which is 27 bytes long. This field can only be filled in by CICS. The evaluation of this field requires a large amount of CPU time and, therefore, can only be activated by a special ZAP. Following is a description of the bytes in NETUOWID: <ul style="list-style-type: none"> ■ Offset 0 (Length 1): The length (L) of the Logical-Unit-of-Work-Identifier-Field, not including this field. The NETUOWID contains

Field System Name	Category	Field Length	Format	Alternate Names	Description
					<p>Logical-Unit-of-Work-Identifier-Field plus padding bytes. Values: 0 or $10 \leq L \leq 26$.</p> <ul style="list-style-type: none"> ■ Offset 1 (Length 1): The length of Network Name, not including this field, $m = L - 9$, $1 \leq m \leq 17$. ■ Offset 2 (Length m): Network name, format: ABCDEFGH.ABCDEFGH, Networkid.Luname. ■ Offset m + 2 (Length 6): Instance number. ■ Offset m + 2 + 6 (Length 2): Sequence number. ■ Offset m + 2 + 6 + 2 (Length until 27): Residual data.
UQALLOC	NUC	4	B	---	The number of bytes of user queue space currently in use.
UQDATE	NUC	8	C	---	The date (in YYYY-MM-DD) format when the user queue high-water mark was reached.
UQENT	NUC	4	B	---	The current number of user queue entries.
UQPCT	NUC	4	B	---	The maximum percentage of user queue space used during the Adabas nucleus session.
UQSIZE	NUC	4	B	---	The number of bytes allocated to the user queue at Adabas nucleus startup.
UQTIME	NUC	8	C	---	The time (in HH:MM:SS format) when the user queue high-water mark was reached.
UQUID	TP	4	B	---	Contains the unique 4-byte UQE (user queue element) user ID for the user who issued the Adabas call. This value is allocated in numerically ascending sequence for each UQE allocated by the Adabas nucleus.
UQUSED	NUC	4	B	---	The maximum number of bytes of user queue space ever used.
USERCMD	NUC	4	B	---	The total number of Adabas commands issued by users and processed during the Adabas nucleus session.
USERFLD1	UF	user-defined	user-defined	---	An Adabas Review user field, containing user-specified data for reports.
USERFLD2	UF	user-defined	user-defined	---	An Adabas Review user field, containing user-specified data for reports.

Field System Name	Category	Field Length	Format	Alternate Names	Description
USERFLD3	UF	user-defined	user-defined	---	An Adabas Review user field, containing user-specified data for reports.
USERFLD4	UF	user-defined	user-defined	---	An Adabas Review user field, containing user-specified data for reports.
USERFLD5	UF	user-defined	user-defined	---	An Adabas Review user field, containing user-specified data for reports.
USERID	CLOG	28	B	USER-ID	The 28-byte Adabas communication ID of the user for whom the command was processed.
USER-ID	CLOG	28	B	USERID	Alternate name for USERID.
USERTYPE	TP	8	C	---	The type of TP system from which the Adabas call was issued. For example, if the Adabas call was issued from a CICS session, the USERTYPE field contains "CICS".

-V-

Field System Name	Category	Field Length	Format	Alternate Names	Description
VB	BUF	32	C	---	The contents of the Adabas value buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole value buffer is displayed. The VBSEGen field may be used to display parts of the value buffer if it is more than 32 bytes long.
VBL	BUF	2	B	---	Corresponds to the ACB field value buffer length field. The value buffer contains the value used in search commands.
VBSEGen	BUF	64	C	---	Represents a value buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field VBSEG01, you obtain the first 64 bytes of the value buffer. The segment number may be a number between 01 and 32, inclusive. The field VBSEGen is available for summary reports only; use the field VB for detail reports.

-W-

Field System Name	Category	Field Length	Format	Alternate Names	Description
WEEK	IT	1	B	WK	The week number of the week in which the Adabas command was processed.
WEEKDAY	IT	3	C	WEEK-DAY	The name of the day on which the Adabas command was processed.
WEEK-DAY	IT	3	C	WEEKDAY	Alternate name for WEEKDAY.
WK	IT	1	B	WEEK	Alternate name for WEEK.
WORKIO	CLOG	2	B	WORK-IO	The number of I/O operations performed against the Adabas Work data set for this command.
WORK-IO	CLOG	2	B	WORKIO	Alternate name for WORKIO.
WORKREAD	I/O	4	B	---	Contains the total number of Work read I/O operations performed during the Adabas session. This value is updated every minute and not when each command is issued.
WORKWRIT	I/O	4	B	---	The total number of Work write I/O operations performed during the Adabas session. This value is updated every minute and not when each command is issued.

-Y-

Field System Name	Category	Field Length	Format	Alternate Names	Description
YEAR	IT	1	B	YR	The year (in YYYY format) in which the Adabas command was processed.
YR	IT	1	B	YEAR	Alternate name for YEAR.

-Number-

Field System Name	Category	Field Length	Format	Alternate Names	Description
1M	IT	5	C	MINUTE MIN	Establishes 1-minute intervals for the collection of Adabas data.
5M	IT	5	C	M5	Establishes 5-minute intervals for the collection of Adabas data.
15M	IT	5	C	M15	Establishes 15-minute intervals for the collection of Adabas data.

Adabas Control Block Fields (CB)

Fields in this category are derived from the Adabas control block (ACB). Refer to the *Adabas Command Reference Guide* supplied with your version of Adabas for more information.

Field System Name	Field Length	Format	Alternate Names	Description
ACBUSER	4	B	---	This field, comprising the last four bytes of the ACB, contains user data that is passed with the Adabas call. It is referred to as the <code>user area</code> field in the ACB, and is neither used nor modified by Adabas.
AD1	8	B	ADD1 ADDIT1	Alternate name for ADDIT1.
AD2	4	B	ADD2 ADDIT2	Alternate name for ADDIT2.
AD3	8	B	ADD3 ADDIT3	Alternate name for ADDIT3.
AD4	8	B	ADD4 ADDIT4	Alternate name for ADDIT4.
AD5	8	B	ADD5 ADDIT5	Alternate name for ADDIT5.
ADD1	8	B	AD1 ADDIT1	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT1.
ADD2	4	B	AD2 ADDIT2	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT2.
ADD3	8	B	AD3 ADDIT3	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT3.
ADD4	8	B	AD4 ADDIT4	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT4.
ADD5	8	B	AD5 ADDIT5	This name is used in the schema portion of the summary record . It is an alternate name for ADDIT5.

Field System Name	Field Length	Format	Alternate Names	Description
ADDIT1	8	B	ADD1 (used in summary record) AD1	Corresponds to the ACB field additions 1 . The command to be executed determines whether this field is used and what the contents represent.
ADDIT2	4	B	ADD2 (used in summary record) AD2	<p>Corresponds to the ACB field additions 2. The command to be executed determines whether this field is used and what the contents represent.</p> <p>When ADARUN parameter CLOGLAYOUT is set to 8, the content of this field is taken from the ACBX structure. Note that there are differences in meaning of the Additions 2 field in the ACBX and in the ACB. In the ACBX, some information that was formally available in the ACB is no longer available. For example, the error-related subcode information that was originally provided in the Additions 2 in the ACB is now no longer provided in the ACBX control block structure; instead, the subcode is provided in the Adabas ACBXSUBS (Subcomponent Response Subcode) field. Therefore, in Adabas Review, if the ADARUN parameter CLOGLAYOUT is set to 8, you will find the information from the older ACB structure in the following separate Adabas Review fields:</p> <ul style="list-style-type: none"> ■ CMPRECL contains the compressed record length. ■ ERRFLDNM contains the error field name. ■ RSPSUB contains the subcode for an Adabas response code. ■ UCMPREL contains the uncompressed record length.
ADDIT3	8	B	ADD3 (used in summary record) AD3	Corresponds to the ACB field additions 3 . The command to be executed determines whether this field is used and what the contents represent.
ADDIT4	8	B	ADD4 (used in summary record) AD4	Corresponds to the ACB field additions 4 . The command to be executed determines whether this field is used and what the contents represent.
ADDIT5	8	B	ADD5 (used in summary record) AD5	Corresponds to the ACB field additions 5 . The command to be executed determines whether this field is used and what the contents represent.

Field System Name	Field Length	Format	Alternate Names	Description
CID	8	C	---	Corresponds to the hexadecimal value of the ACB field <code>command ID</code> . This field serves important functions, determined by the command, during command execution. For example, during a sequential read, the command ID is used to return the records to the user in the proper sequence. This field displays the value of the CID in hexadecimal format (for example, if CID=ABCD, it is displayed in this field as "C1C2C3C4").
CIDALPHA	4	C	---	Corresponds to the alphanumeric value of the ACB field <code>command ID</code> . This field serves important functions, determined by the command, during command execution. For example, during a sequential read, the command ID is used to return the records to the user in the proper sequence. This field displays the value of the CID in alphanumeric format.
CMD	2	C	COMMAND	Corresponds to the ACB field <code>command code</code> .
CMDNAME	14	C	CNAME	A translation of the 2-byte Adabas command code to a 14-byte string. For example, the command code BT is translated to "Backout Trans".
CMDRESP	4	B	CMDRSP MCR	<p>The time, in milliseconds, required to process the Adabas call. In the command table, Adabas Review stores the minimum Adabas duration for each command type returning a zero response code. The command table is updated whenever a lower duration value is encountered. Command response time is thus based on the <code>command time</code> field in the Adabas command log.</p> <p>The values for CMDRESP in the history file are automatically stored in seconds. To display them correctly, they must be converted to milliseconds. For more information on this conversion, read <i>Migration from Previous Versions</i>, in the <i>Adabas Review Release Notes</i>.</p> <p>If you need to continue using the old scale and the old calculation algorithm for history data, contact your Software AG support representative.</p> <p>Due to changes in the display programs in SYSREVD, you cannot use SYSREVD in Adabas Review 4.4 (or earlier versions) to display the field contents of CMDRESP correctly, unless you stay with the old scale and algorithm.</p>
CMDRSP	4	B	CMDRESP MCR	Alternate name for CMDRESP.

Field System Name	Field Length	Format	Alternate Names	Description
CMDSTAT	8	C	---	Contains the Adabas internal status for an Adabas command. For example, the Adabas command L3 has an internal status of SIMPLE and S1 has an internal status of COMPLEX.
CMPRECL	2	B	---	Contains the compressed record length of the record returned by a READ or a FIND command.
CNAME	14	C	CMDNAME	Alternate name for CMDNAME.
COMMAND	2	C	CMD	Alternate name for CMD.
COMMANDS	8	B	---	The number of Adabas commands processed for the control break.
COP1	1	C	OP1	Corresponds to the ACB field <code>command option 1</code> . The contents of this field is determined by the command being issued.
COP2	1	C	OP2	Corresponds to the ACB field <code>command option 2</code> . The contents of this field is determined by the command being issued.
DBID	2	B	---	The unique Adabas database identification number.
ERRFLDNM	2	C	---	Error field name. Contains the Adabas 2-character name for a field that has been found to be in error in the Adabas format or search buffer.
FILE	2	B	FNR (used in summary record)	Corresponds to the ACB field <code>file number</code> . The function of this field is determined by the Adabas command being issued.
FNR	2	B	FILE	This name is used in the schema portion of the summary record . It is an alternate name for FILE.
GLOBFMID	8	B	---	Contains the global internal format buffer ID for the Adabas call within a sequence of Adabas calls. This field is derived from ADDIT5 field.
ISN	4	B	---	Corresponds to the ACB field <code>ISN</code> . The use of this field is determined by the command being issued.
ISNLL	4	B	---	Corresponds to the ACB field <code>ISN lower limit</code> . The field contains the lowest ISN that Adabas returns when retrieving ISN lists. The use of this field is determined by the command being issued. Note: This field could be misinterpreted when used at the OP command, since the value of ISNLL as well as ISNQ are used for purposes other than the ISN lower limit or ISN quantity. Please refer to the Adabas Command Reference manual for further information.
ISNQ	4	B	---	Corresponds to a modification of the ACB field <code>ISN quantity</code> . The field is modified based on command type, and is suitable for performing mathematical calculations

Field System Name	Field Length	Format	Alternate Names	Description
				such as SUM and AVERAGE. The unmodified data can be found in the ORGISNQ field. Note: This field could be misinterpreted when used at the OP command, since the value of ISNQ as well as ISNLL are used for purposes other than the ISN lower limit or ISN quantity. Please refer to the Adabas Command Reference manual for further information.
MCR	4	B	CMDRESP CMDRSP	Alternate name for CMDRESP.
OP1	1	C	COP1	Alternate name for COP1.
OP2	1	C	COP2	Alternate name for COP2.
RESPONSE	2	B	RSP (used in summary record) RC	Corresponds to the ACB field response code. A response code of 0 indicates that the command executed successfully.
RSP	2	B	RESPONSE	This name is used in the schema portion of the summary record . It is an alternate name for RESPONSE.
RSPSUB	4	B	---	Contains the Adabas response code subcode from the ACB field Additions 2 or the ACBX field ACBXERRC for certain nonzero Adabas response codes.
UCMPRECL	2	B	---	Uncompressed record length. The uncompressed length of the Adabas format or search buffer field.

Adabas Command Log Fields (CLOG)

Field System Name	Field Length	Format	Alternate Names	Description
ASSOIO	2	B	ASSO-IO	The number of asynchronous Associator read I/Os for this command.
ASSO-IO	2	B	ASSOIO	Alternate name for ASSOIO.
CALLTYPE	8	C	---	Contains the type of the Adabas call that was issued. Possible values are: <ul style="list-style-type: none"> ■ "PHYSICAL": indicates a standard Adabas call ■ "REMOTE": indicates a call arriving via Entire Net-Work.

Field System Name	Field Length	Format	Alternate Names	Description
CMDTYPE	1	B	TYPECMD CMD-TYPE	The 1-byte command type field of the Adabas command log record that describes the internal Adabas status for the command. For example, a command type of 01 is a simple command and a command type of 42 is a complex command. The CMDSTAT field provides this translation.
CMD-TYPE	1	B	CMDTYPE TYPECMD	Alternate name for CMDTYPE.
DATAIO	2	B	DATA-IO	The number of asynchronous Data Storage read I/Os for this command.
DATA-IO	2	B	DATAIO	Alternate name for DATAIO.
DES	2	B	DESUPD	Alternate name for DESUPD.
DESUPD	2	B	DES	Contains the number of descriptors that were updated for an Adabas call.
DUR	4	B	DURATION DURAT	Alternate name for DURATION.
DURAT	4	B	DURATION DUR	Alternate name for DURATION.
DURATION	4	B	DURAT DUR	The amount of time that the command spent in the Adabas thread, including time spent waiting for I/O operations to complete. This field is expressed in seconds and is accurate to 4 decimal places. The field ADADURA contains the same value accurate to 6 decimal places.
ORGDURA	4	B	---	The (original) value of the "duration" field contained in the command log record. The time is expressed in units of 16 microseconds.
PRI	1	B	PRIORITY PRIO	Alternate name for PRIORITY.
PRIO	1	B	PRIORITY PRI	Alternate name for PRIORITY.
PRIORITY	1	B	PRI PRIO	The operating system priority for the user issuing the Adabas call.
SEQ	4	B	SEQUENCE	Alternate name for SEQUENCE.
SEQUENCE	4	B	SEQ	The Adabas command sequence number. The value is incremented by one for each Adabas command processed.

Field System Name	Field Length	Format	Alternate Names	Description
SRCHTYPE	8	C	---	The type of search or search algorithm. If this field contains the value 'NONDES', a nondescriptor search occurred.
THD	1	B	THREAD	Alternate name for THREAD.
THREAD	1	B	THD	The Adabas thread number in which the Adabas command was processed.
TYPECMD	1	B	CMDTYPE CMD-TYPE	Alternate name for CMDTYPE.
USERID	28	B	USER-ID	The 28-byte Adabas communication ID of the user for whom the command was processed.
USER-ID	28	B	USERID	Alternate name for USERID.
WORKIO	2	B	WORK-IO	The number of I/O operations performed against the Adabas Work data set for this command.
WORK-IO	2	B	WORKIO	Alternate name for WORKIO.

Adabas Buffer Fields (BUF)



Note: The data in the buffers may be meaningless if the Adabas response code is not zero.

Field System Name	Field Length	Format	Alternate Names	Description
FB	32	C	---	The contents of the Adabas format buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole format buffer is displayed. The FBSEG nn field may be used to display parts of the format buffer if it is more than 32 bytes long. Only one FBSEG nn field is allowed for each report.
FBFIELDS	2	C	FBF	Format buffer fields. Contains the Adabas 2-character name for each field contained in the Adabas format buffer. This field can only be used in Summary reports.
FBL	2	B	---	Corresponds to the ACB field format buffer length. The contents of this field is determined by the Adabas command issued.
FBSEG nn	64	C	---	Represents a format buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field FBSEG01 you obtain the first 64 bytes of the format buffer. The segment number

Field System Name	Field Length	Format	Alternate Names	Description
				may be a value between 01 and 32, inclusive. The field FBSEG nn is available for summary reports only; use the field FB for detail reports.
IB	32	C	---	<p>The contents of the Adabas ISN buffer if one exists for the Adabas call.</p> <p>When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole ISN buffer is displayed.</p> <p>The IBSEGnn field may be used to display parts of the ISN buffer if it is more than 32 bytes long.</p>
IBL	2	B	---	Corresponds to the ACB field <code>ISN buffer length</code> . The use of this field is determined by the command being issued.
IBSEG nn	64	C	---	Represents an ISN buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field IBSEG01, you obtain the first 64 bytes of the ISN buffer. The segment number may be a value between 01 and 32, inclusive. The field IBSEG nn is available for summary reports only; use the field IB for detail reports.
RB	32	C	---	<p>The contents of the Adabas record buffer if one exists for the Adabas call.</p> <p>When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole record buffer is displayed.</p> <p>The RBSEGnn field may be used to display parts of the record buffer if it is more than 32 bytes long.</p>
RBL	2	B	---	Corresponds to the ACB field <code>record buffer length</code> . The record buffer is used primarily with read, search, and update commands.
RBSEG nn	64	C	---	Represents a record buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field RBSEG01, you obtain the first 64 bytes of the record buffer. The segment number may be a number between 01 and 32, inclusive. The field RBSEG nn is available for summary reports only; use the field RB for detail reports.
SB	32	C	---	<p>The contents of the Adabas search buffer if one exists for the Adabas call.</p> <p>When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole search buffer is displayed.</p> <p>The SBSEGnn field may be used to display parts of the search buffer if it is more than 32 bytes long.</p>

Field System Name	Field Length	Format	Alternate Names	Description
SBFIELDS	2	C	---	Search buffer fields. Contains the Adabas 2-character field name for each field contained in the Adabas search buffer. This field can only be used in Summary reports.
SBL	2	B	---	Corresponds to the ACB field search buffer length.
SBSEG nn	64	C	---	Represents a search buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field SBSEG01, you obtain the first 64 bytes of the search buffer. The segment number may be a number between 01 and 32, inclusive. The field SBSEG nn is available for summary reports only; use the field SB for detail reports.
VB	32	C	---	The contents of the Adabas value buffer if one exists for the Adabas call. When used in a summary report, only the first 32 bytes of this field are displayed. When used in a detail report, the whole value buffer is displayed. The VBSEG nn field may be used to display parts of the value buffer if it is more than 32 bytes long.
VBL	2	B	---	Corresponds to the ACB field value buffer length field. The value buffer contains the value used in search commands.
VBSEG nn	64	C	---	Represents a value buffer segment of 64 bytes. The nn suffix is the segment number. For example, by specifying the field VBSEG01, you obtain the first 64 bytes of the value buffer. The segment number may be a number between 01 and 32, inclusive. The field VBSEG nn is available for summary reports only; use the field VB for detail reports.

Interval and Time Fields (IT)

Field System Name	Field Length	Format	Alternate Names	Description
15M	5	C	M15	Establishes 15-minute intervals for the collection of Adabas data.
1M	5	C	MINUTE MIN	Establishes 1-minute intervals for the collection of Adabas data.
5M	5	C	M5	Establishes 5-minute intervals for the collection of Adabas data.
ADADURA	4	B	---	Adabas duration. Corresponds to the DURATION field. This field contains the amount of time (in seconds) that the command spent in the Adabas thread, including the time spent waiting for the completion of I/O

Field System Name	Field Length	Format	Alternate Names	Description
				operations. The ADADURA field differs from the DURATION field in that the time is computed to 6 decimal places instead of 4 decimal places.
CQDURA	4	B	---	Command queue duration. Contains the amount of time (in seconds) that a command waited in the command queue before being dispatched into an Adabas thread.
DATE	8	C	---	The date (in YYYY-MM-DD format) when the Adabas command was processed.
DAY	1	B	---	The day number (within a month) when the Adabas command was processed.
ENDDATE	4	T	---	The date (in YYYY-MM-DD format) when the last Adabas command was processed for a user or a job.
ENDTIME	4	T	---	The time (in 24-hour format) when the last Adabas command was processed for a user or a job.
FULLSTCK	8	T	---	The 8-byte store clock value taken when the Adabas command was processed.
HOUR	5	C	HR	The hour (in 24-hour format) when the Adabas command was processed.
HR	5	C	HOUR	Alternate name for HOUR.
M15	5	C	15M	Alternate name for 15M.
M5	5	C	5M	Alternate name for 5M.
MIN	5	C	1M MINUTE	Alternate name for 1M.
MINUTE	5	C	1M MIN	Alternate name for 1M.
MO	1	B	MONTH MON	Alternate name for MONTH.
MON	1	B	MON MO	Alternate name for MONTH.
MONAME	3	C	---	The name of the month when the Adabas command was processed.
MONTH	1	B	MON MO	The number of the month when the Adabas command was processed.
QTR	1	B	QUARTER QUAR	Alternate name for QUARTER.

Field System Name	Field Length	Format	Alternate Names	Description
QUAR	1	B	QUARTER QTR	Alternate name for QUARTER.
QUARTER	1	B	QUAR QTR	The quarter of the year in which the Adabas command was processed.
STRDATE	4	T	---	The date (in YYYY-MM-DD format) when the first Adabas command was processed within the current report control break.
STRTIME	4	T	---	The time (in 24-hour format) when the first Adabas command was processed within the current report control break.
TIME	8	C	---	The time (in 24-hour format) when the first Adabas call was processed.
TOTDURA	4	B	---	Total duration. Contains the amount of time the command was in the Adabas thread plus the amount of time the command waited in the command queue. The TOTDURA field is the sum of the ADADURA and CQDURA field values expressed in seconds.
WEEK	1	B	WK	The week number of the week in which the Adabas command was processed.
WEEKDAY	3	C	WEEK-DAY	The name of the day on which the Adabas command was processed.
WEEK-DAY	3	C	WEEKDAY	Alternate name for WEEKDAY.
WK	1	B	WEEK	Alternate name for WEEK.
YEAR	1	B	YR	The year (in YYYY format) in which the Adabas command was processed.
YR	1	B	YEAR	Alternate name for YEAR.

Adabas I/O Fields (I/O)

Field System Name	Field Length	Format	Alternate Names	Description
ASSOREAD	4	B	----	Associator read. The total number of Associator read I/Os that occurred during the Adabas session. This value is updated every minute and not when each command is issued.
ASSOWRIT	4	B	---	Associator write. The total number of Associator write I/Os that occurred during the Adabas session. This value is updated every minute and not when each command is issued.

Field System Name	Field Length	Format	Alternate Names	Description
DATAREAD	4	B	---	The total number of Adabas Data Storage read I/Os for the Adabas session. This value is updated every minute and not when each command is issued.
DATAWRIT	4	B	---	The total number of Adabas Data Storage write I/Os for the Adabas session. This value is updated every minute and not when each command is issued.
IO	2	B	IOS	This name is used in the schema portion of the summary record . It is an alternate name for IOS.
IOS	2	B	IO (used in summary record)	The total number of I/Os for the command processed; it is the sum of ASSOIO, DATAIO and WORKIO.
IOCOMP	3	C	---	Identifies the Adabas component against which the I/O was issued. For example, if the I/O is issued against Data Storage extent 1, the field contains DS1. If the I/O is issued against address converter extent 3, the field contains AC3.
IOfUNC	5	C	---	The type of I/O operation performed against an Adabas component. The values for this field are "READ" or "WRITE".
IOLIST	10	C	---	The hexadecimal I/O list for a command obtained from the Adabas command log record. Four bytes are allocated for each I/O list entry.
IOPHYS	16	C	---	A translation of the I/O list entry from the Adabas command log record. The format for this field is <i>comp-x nnnnnn</i> , where: <i>comp</i> is the Adabas component (ASSO, DATA, or WORK) <i>x</i> is the type of I/O, ("R" for read or "W" for write) <i>nnnnnn</i> is the RABN (relative Adabas block number)
IORABN	8	C	---	The relative Adabas block number against which the I/O was performed.
IOTOCMD	4	B	---	The ratio of the total number of I/O operations performed to the total number of commands processed.
IOTYPE	4	C	---	Identifies the component against which the I/O operation was performed. Values for this field may be ASSO 'Associator', DATA 'Data Storage', or WORK 'Work data set'.
IOVOLSER	6	C	---	Contains the volume serial number against which the I/O operation was performed. This field may be used to show Adabas I/O distribution.
TOTALIOS	4	B	---	Contains the total number of I/Os performed against all Adabas components for the Adabas session; the sum of ASSOREAD, ASSOWRIT, DATAREAD, DATAWRIT, WORKREAD, and WORKWRIT.

Field System Name	Field Length	Format	Alternate Names	Description
				This value is updated every minute and not when each command is issued.
WORKREAD	4	B	---	Contains the total number of Work read I/O operations performed during the Adabas session. This value is updated every minute and not when each command is issued.
WORKWRIT	4	B	---	The total number of Work write I/O operations performed during the Adabas session. This value is updated every minute and not when each command is issued.

Natural Fields (NAT)

Field System Name	Field Length	Format	Alternate Names	Description
LEVEL	2	B	NATLEVEL	Alternate name for NATLEVEL.
LIB	8	C	NATLIB	Alternate name for NATLIB.
LOG	8	C	NATAPPL LOGON	This name is used in the schema portion of the summary record . It is an alternate name for NATAPPL.
LOGON	8	C	NATAPPL LOG (used in summary record)	Alternate name for NATAPPL.
NATAPPL	8	C	LOGON LOG (used in summary record)	The Natural application name (or library) to which the user issued a LOGON. This field does not necessarily show the library of the Natural object from which the Adabas call is issued. Under SQL, this field contains the library name.
NATCLTID	8	C	---	NATCLTID displays the client user ID of a user using a Natural server. NATCLTID only contains a value if an RPC client request is executed in a Natural RPC server session. In all other cases the field is empty.
NATCOUNT	2	B	---	The total number of Adabas calls generated by the user application since the last terminal I/O.
NATEXEC	2	B	---	The number of times a Natural object that issues Adabas calls has been executed. NATCOUNT is "1" if the Natural object has issued an Adabas call for the first time on this level; value is zero otherwise.
NATGRP	8	C	---	The current Natural security group to which the user belongs.

Field System Name	Field Length	Format	Alternate Names	Description
NATLEVEL	2	B	LEVEL	The Natural call level of the Natural program issuing the Adabas call. For example, a CALLNAT routine that is called from a program and issues an Adabas call has a Natural level of 2.
NATLIB	8	C	LIB	The name of the Natural library where the object is located that is currently executed.
NATPROG	8	C	PROGRAM PRO (used in summary record)	The name of the Natural program that issued the Adabas call. When Natural internally issues Adabas calls to load Natural objects, this value is not updated. Under SQL, this field contains the program name.
NATRPCID	16	C	---	The 16-byte alphanumeric value for the store clock value used as identification of the Natural RPC Server.
NATRPCCO	16	C	---	The 16-byte alphanumeric value of the conversation ID from the Natural RPC Server.
NATSTMT	4	C	---	The Natural statement number for the Adabas command processed. This field is derived from the Adabas command ID (CID).
NATUID	8	C	---	The name of the Natural library to which the user is currently logged on. This is the value of the Natural system variable *APPLIC-ID.
PRO	8	C	NATPROG PROGRAM	This name is used in the schema portion of the summary record . It is an alternate name for NATPROG.
PROGRAM	8	C	NATPROG PRO (used in summary record)	Alternate name for NATPROG.

Adabas Nucleus Fields (NUC)

Field System Name	Field Length	Format	Alternate Names	Description
ABALLOC	4	B	---	The number of bytes of attached buffer space currently used. An attached buffer is an internal buffer used for interregion communication.
ABDATE	8	C	---	The date (in YYYY-MM-DD format) when the attached buffer high-water mark was reached.
ABENT	4	B	---	The current number of attached buffer entries.
ABPCT	4	B	---	The maximum percentage of attached buffer space used during the Adabas nucleus session.

Field System Name	Field Length	Format	Alternate Names	Description
ABSIZE	4	B	---	The total amount (in bytes) of attached buffer space allocated at Adabas nucleus startup.
ABTIME	8	C	---	The time (in HH:MM:SS format) that the attached buffer high-water mark was reached.
ABUSED	4	B	---	The maximum number (in bytes) of attached buffer space used during the Adabas nucleus session.
BUFFEFF	4	B	---	Buffer efficiency. Contains the ratio of the number of calls to the Adabas buffer pool manager to the number of Adabas physical read requests made to the Associator and the Data Storage devices. For example, if the number of read I/Os is 100 and the number of calls to the buffer pool manager is 500, the buffer efficiency is 500/100 or 5. The higher the buffer efficiency number, the more efficient is the use of buffer space. If the buffer efficiency number is low, it is recommended that you increase the LBP (length of buffer pool) ADARUN parameter.
BUFFLUSH	4	B	---	The number of times that the Adabas buffer pool (LBP) was flushed during the Adabas nucleus session.
BUFFWAIT	4	B	---	The number of times that Adabas Review had to wait for a buffer.
CQALLOC	4	B	---	The number of bytes of command queue space currently used.
CQDATE	8	C	---	The date (in YYYY-MM-DD format) when the command queue high-water mark was reached.
CQENT	4	B	---	The current number of command queue entries.
CQJOB	8	C	---	The job or started task name for the user obtained from the user's command queue element.
CQMAXENT	4	B	---	The maximum number of entries that have been in the command queue for the Adabas nucleus session.
CQPCT	4	B	---	The maximum percentage of command queue space used during the Adabas nucleus session.
CQSIZE	4	B	---	The total number of bytes of command queue space allocated at Adabas nucleus startup.
CQTIME	8	B	---	The time (in HH:MM:SS format) when the command queue high-water mark was reached.
CQUQADDR	8	B	---	The address of the User Queue Element found in the CQE.
CQUSED	4	B	---	The maximum number of bytes of command queue space used during the Adabas nucleus session.
DBNAME	16	C	---	The 16-character name assigned to the database when it was created.

Field System Name	Field Length	Format	Alternate Names	Description
FILENAME	16	C	---	Contains the 16-character name assigned to the Adabas file, and is obtained from the Adabas file control block (FCB). If the file name is not available, the field contains "FCB-UNAVAILABLE".
FILETYPE	6	C	---	Contains the 6-character type assigned to the Adabas file. This field contains the string "USER" if the file is a user file or "SYSTEM" if the Adabas Checkpoint file was read or updated.
FORMATOW	4	B	---	The total number of Adabas internal format overwrites that have occurred during the Adabas nucleus session.
FORMATTR	4	B	---	The total number of Adabas internal format translations that have occurred during the Adabas nucleus session.
HOLDISN	2	B	---	The numbers of ISNs which are in HOLD status by the user at the time this command is executed. The number is obtained after the execution of this command.
HQDATE	8	C	---	The date (in YYYY-MM-DD format) that the hold queue high-water mark was reached.
HQENT	4	B	---	The current number of hold queue entries.
HQPCT	4	B	---	The maximum percentage of hold queue space used during the Adabas nucleus session.
HQSIZE	4	B	---	The total number of bytes allocated to the hold queue at Adabas nucleus startup.
HQTIME	8	C	---	The time (in HH:MM:SS format) that the hold queue high-water mark was reached.
HQUSED	4	B	---	The maximum number of bytes of hold queue space used during the Adabas nucleus session.
HQUSRENT	4	B	---	The number of hold queue user entries.
LFPALLOC	4	B	---	The number of bytes currently used in the format pool.
LFPENT	4	B	---	The current number of entries in the format pool.
LFPMAX	4	B	---	The maximum number of bytes of format pool space used during the Adabas nucleus session.
LFPPCT	4	B	---	The maximum percentage of format pool space used during the Adabas nucleus session.
LFPSIZE	4	B	---	The total number of bytes allocated to the format pool at Adabas nucleus startup.
LFPUSED	4	B	---	The maximum number of bytes of format pool space used during the Adabas nucleus session.
LWPALLOC	4	B	---	The number of bytes of the work pool currently in use.
LWPENT	4	B	---	The current number of work pool entries.

Field System Name	Field Length	Format	Alternate Names	Description
LWPMAX	4	B	---	The maximum number of bytes of work pool space used during the Adabas nucleus session.
LWPMXENT	4	B	---	The maximum number of work pool entries used during the Adabas nucleus session.
LWPPCT	4	B	---	The maximum percentage of work pool space used during the Adabas nucleus session.
LWPSIZE	4	B	---	The number of bytes that were allocated to the work pool at Adabas nucleus startup.
LWPUSED	4	B	---	The maximum number of bytes of work pool space used during the Adabas nucleus session.
NUCID	3	B	SMP (used in summary record)	The ID of an Adabas nucleus in an Adabas Parallel Services or Adabas Cluster Services environment.
SMP	3	B	NUCID	This name is used in the schema portion of the summary record . It is an alternate name for NUCID.
SVC	1	B	---	The Adabas SVC (supervisor call) number used for interregion communication between the user's address space and the Adabas nucleus address space.
SYSCMD	4	B	---	The number of Adabas system commands that have been executed. Adabas system commands execute in Adabas threads 0 and -1.
THDNUM	4	B	---	The number of 8K Adabas threads in the nucleus. The number includes the two Adabas system threads (threads 0 and -1).
THREADSW	4	B	---	The number of thread switches that have occurred during the Adabas nucleus session.
THROWBKS	4	B	---	The number of command throwbacks that have occurred during the Adabas nucleus session. Throwbacks occur when the record you wish to retrieve has been placed on hold by another user. The command you issued is placed on the command queue ("thrown back") for reprocessing.
TIALLOC	4	B	---	The number of bytes of LI (ISN list table) space currently used.
TIDATE	8	C	---	The date (in YYYY-MM-DD format) when the LI (ISN list table) high-water mark was reached.
TIENT	4	B	---	The current number of entries used in the LI (ISN list table).
TIPCT	4	B	---	The maximum percentage of LI (ISN list table) space used during the Adabas nucleus session.
TISIZE	4	B	---	The number of bytes allocated to the LI (ISN list table) at Adabas nucleus startup.

Field System Name	Field Length	Format	Alternate Names	Description
TITIME	8	C	---	The time (in HH:MM:SS format) that the LI (ISN list table) high-water mark was reached.
TIUSED	4	B	---	The maximum number of bytes of LI (ISN list table) space used during the Adabas nucleus session.
TOTALCMD	4	B	---	The total number of Adabas system and user commands that have been processed during the Adabas nucleus session.
TSALLOC	4	B	---	The number of bytes in the LQ (table of sequential commands) currently being used.
TSDATE	8	C	---	The date (in YYYY-MM-DD format) when the LQ (table of sequential commands) high-water mark was reached.
TSENT	4	B	---	The current number of entries in the LQ (table of sequential commands).
TSPCT	4	B	---	The maximum percentage of LQ (table of sequential commands) space used during the Adabas nucleus session.
TSSIZE	4	B	---	The number of bytes allocated to the LQ (table of sequential commands) at Adabas nucleus startup.
TSTIME	8	C	---	The time (in HH:MM:SS format) when the LQ (table of sequential commands) high-water mark was reached.
TSUSED	4	B	---	The maximum number of bytes used in the LQ (table of sequential commands) during the Adabas nucleus session.
UQALLOC	4	B	---	The number of bytes of user queue space currently in use.
UQDATE	8	C	---	The date (in YYYY-MM-DD) format when the user queue high-water mark was reached.
UQENT	4	B	---	The current number of user queue entries.
UQPCT	4	B	---	The maximum percentage of user queue space used during the Adabas nucleus session.
UQSIZE	4	B	---	The number of bytes allocated to the user queue at Adabas nucleus startup.
UQTIME	8	C	---	The time (in HH:MM:SS format) when the user queue high-water mark was reached.
UQUSED	4	B	---	The maximum number of bytes of user queue space ever used.
USERCMD	4	B	---	The total number of Adabas commands issued by users and processed during the Adabas nucleus session.

Operating System Fields (OS)

Field System Name	Field Length	Format	Alternate Names	Description
ACCTINF2	16	C	---	Accounting information about the user that issued the Adabas call for z/OS batch jobs. This field will contain the second value specified in the account field of the job card.
ACCTINFO	16	C	---	Accounting information about the user that issued the Adabas call. For z/OS batch jobs, the field will contain the first value specified in the account field of the job card. For Com-plete users, the field will contain the account information specified in the user's Com-plete profile.
CPUID	8	B	---	The internal identifying serial number of the CPU from which the Adabas call was issued. Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).
JMREDATE	10	C	---	The date (in YYYY-MM-DD format) when the batch job was entered in JES or from the job information macro.
JOB	8	C	JOBNAME	Alternate name for JOBNAME.
JOBCLASS	1	B	---	(z/OS only) The one-byte character of the CLASS parameter in the job card.
JOBID	8	C	---	A combination of the job identifier and the job number of the user who issued the Adabas call. This field is available under z/OS and z/VSE: <ul style="list-style-type: none"> ■ Under z/OS, the field will contain JOB, STC, or TSU as the job identifier followed by a 5-byte JES job number. ■ Under z/VSE, the field will contain JOB as the identifier, followed by the 5-byte POWER job number.
JOBNAME	8	C	JOB	The name of the job or task from which the Adabas call was issued. This field is the contents of the JOBNAME from the Adabas command log record and may not reflect the actual JOBNAME of the task that issued the Adabas call.
JOBNUM	5	C	---	The job number of the user who issued the Adabas call. This field is available under z/OS and z/VSE. The field will contain an alphanumeric, 5-byte value for the JES (z/OS) or POWER (z/VSE) job number.

Field System Name	Field Length	Format	Alternate Names	Description
LPARNAME	8	C	---	The system LPAR or partition name (in z/OS or z/VSE environments) or the environment name from the job information macro (in BS2000 environments).
LUNAME	8	C	---	<p>The VTAM LU (logical unit) name of the user who issued the Adabas call. If the TP system is Com-plete, the LUNAME field contains the Com-plete ID:</p> <ul style="list-style-type: none"> ■ The first 3 bytes of the ID represent the Com-pass stack level ■ The fourth byte is the Com-plete patch character ■ The last 4 bytes identify the Com-plete terminal ID number in hexadecimal format. <p>Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).</p>
OPSYSID	4	B	---	<p>The operating system ID. The address of the ASCB (address space control block) for the job or task that issued the Adabas call.</p> <p>Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).</p>
OPSYSNAM	8	C	---	The operating system name (SYSNAME) that is specified in the SYS1.PARMLIB and which will be obtained from the CVT (in z/OS environments) or the operating system name and version number (in BS2000 environments).
ROUTTIME	8	B	---	The amount of time between the time a command was issued by the application and the time it was queued in the Adabas command queue. For Adabas 8.1 and earlier, this field is expressed in seconds; for Adabas 8.2 and later releases, this field is expressed in milliseconds.
STEPNAME	8	C	---	The name of the job step or task step that issued the Adabas call. This step is only available in z/OS environments.

Transaction Processing Monitor Fields (TP)

Field System Name	Field Length	Format	Alternate Names	Description
ACINAME	8	C	CURENPGM	The program name of the Adabas CICS link routine for the DCI interface: ADADCI.
CALLPGM	8	C	---	<p>The program that executed the last EXEC CICS LINK or XCTL command.</p> <ul style="list-style-type: none"> ■ In non-DCI situations, this is the program calling the Adabas CICS link routine via EXEC CICS LINK ■ In DCI interface situations (used by Natural), this is the name of the executing program if there was no previous EXEC CICS LINK or, if there was a previous EXEC CICS LINK, the name of the program that executed the last EXEC CICS LINK.
CQEUID	28	B	---	<p>Contains the 28-byte Adabas communication user ID for the user who issued the Adabas call.</p> <p>Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).</p>
CURENPGM	8	C	ACINAME	Alternate name for ACINAME.
ETID	8	C	---	The Adabas ET (end transaction) ID that was established during the OP (open) call to Adabas.
SECGID	8	C	---	Contains the security system group ID for the user who issued the Adabas call. This field is available under z/OS when the user is running with an external security system (RACF, ACF2, or Top Secret).
SECUID	8	C	---	Contains the security system user ID for the user who issued the Adabas call. This field is available under z/OS when the user is running with an external security system (RACF, ACF2, or Top Secret).
TID	2	B	---	The Complete terminal ID number of the user who issued the Adabas call.
TPTRANCT	4	B	---	<p>A transaction count field. Possible values for this field are either "1" or "0" (zero).</p> <p>A transaction is started with a TP terminal read and completed with a TP terminal write. For the first command of a transaction by a user, this field is set to "1". For all subsequent calls of the same transaction for the same user, this field is set to "0".</p>

Field System Name	Field Length	Format	Alternate Names	Description
				This field is most useful as a SUM field in conjunction with the field TRANSID. Used in this manner, you can determine the work rate per transaction.
TPTRANNM	4	B	---	The transaction number as established by the user's TP system for the transaction that issued the Adabas call.
TPUSER	8	C	TPUSERID	Alternate name for TPUSERID.
TPUSERID	8	C	TPUSER	The user ID on the TP monitor from which the Adabas call was issued.
TRANSID	8	C	---	The name of the root transaction or program that issued the Adabas call.
TRUENAME	8	C	---	The name of the Adabas CICS link routine TRUE exit.
UBUID	8	C	---	Contains the last 8 bytes of the 28-byte Adabas communication ID (CQEUID) for the user who issued the Adabas call. Note: This field may contain different data when an X'48' call is issued. To avoid such a call in Natural, set Natural parameter ADAMODE=0 (the default value is 2).
UOWID	8	C	---	Contains the instance number and the sequence number of the CICS field NETUOWID, which is 27 bytes long. This field can only be filled in by CICS. The evaluation of this field requires a large amount of CPU time and, therefore, can only be activated by a special ZAP. Following is a description of the bytes in NETUOWID: <ul style="list-style-type: none"> ■ Offset 0 (Length 1): The length (L) of the Logical-Unit-of-Work-Identifier-Field, not including this field. The NETUOWID contains Logical-Unit-of-Work-Identifier-Field plus padding bytes. Values: 0 or $10 \leq L \leq 26$. ■ Offset 1 (Length 1): The length of Network Name, not including this field, $m = L - 9$, $1 \leq m \leq 17$. ■ Offset 2 (Length m): Network name, format: ABCDEFGH.ABCDEFGH, Networkid.Luname. ■ Offset m + 2 (Length 6): Instance number. ■ Offset m + 2 + 6 (Length 2): Sequence number. ■ Offset m + 2 + 6 + 2 (Length until 27): Residual data.
UQUID	4	B	---	Contains the unique 4-byte UQE (user queue element) user ID for the user who issued the Adabas call. This value is allocated in numerically ascending sequence for each UQE allocated by the Adabas nucleus.

Field System Name	Field Length	Format	Alternate Names	Description
USERTYPE	8	C	---	The type of TP system from which the Adabas call was issued. For example, if the Adabas call was issued from a CICS session, the USERTYPE field contains "CICS".

User Fields (UF)

Field System Name	Field Length	Format	Alternate Names	Description
USERFLD1 through USERFLD5	user-defined	user-defined	---	These are user fields, made available to you so you can report on data you choose. For complete information about defining and using Adabas Review user fields, read <i>Defining Adabas Review User Fields</i> , in the <i>Adabas Review Administration Guide</i> .

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This section describes the reports supplied with Adabas Review. These reports may be used without modification, or they may be customized to suit individual site requirements.

The documentation for each report lists the fields (**system names**), report options, and report processing rules (if any) used to produce the report. To examine these report definitions online, read *Editing Existing Reports* in the *Adabas Review User's Guide*.

Application File Field Usage Report

The Application File Field Usage report shows the processing activity, by file, for Natural application programs. Processing activity information includes the total number of commands and I/Os, as well as the total amount of command response time (CMDRESP) and time used to process in the Adabas thread (ADADURA).

```

20:50:35                APPLICATION FILE FIELD USAGE                2009-06-18
                        2009-06-18 Thru 2009-06-18                HUB=15690
                                                                Page:    1

```

NAT-App1	File	Fld-Name	Total Num-of-I/Os	Total Commands	Total Cmd-Resp
	0		0	34	0.113408
	50		0	85	6.183168
	50	AB	0	14	4.649984
	50	AI	0	5	2.564480
	50	AK	0	5	2.564480
	50	AL	0	5	2.564480
	50	AM	0	5	2.564480
	50	AN	0	5	2.564480
	50	AZ	0	5	2.564480
	50	OA	0	163	12.200576
	50	OB	0	15	1.862784
	50	OC	0	101	7.873152
	50	OD	0	103	8.088064

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit                +                ==> Menu  <-

```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
NATAPPL	1							
FILE	2							
FBFIELDS	3							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

Adabas Buffer Pool Display Report

The Adabas Buffer Pool Display Report shows the usage of Adabas buffer pools.

```

22:31:56          A D A B A S - R E V I E W          2009-06-19
                  ADABAS Buffer Pool Display          HUB=15690

nnnnK = Buffer Size ----- = Max Used ===== = Currently Used

!   47003K          29K      0K      0K      0K      602K
100% ---45%-      --605%-  ==605%=  ---45%-  =====7%=  --828%-
!   -----      -----      -----      -----      -----      -----
!   -----      -----      -----      -----      -----      -----
75% -----      -----      -----      -----      -----      -----
!   -----      -----      -----      -----      -----      -----
!   -----      19K      -----      -----      -----      -----
50% -----      ---50%-      -----      -----      -----      -----
!   -----      -----      -----      -----      -----      -----
!   -----      -----      -----      -----      -----      -----
25% -----      -----      -----      -----      -----      -----
!   -----      -----      -----      -----      -----      -----
!   -----      33224K  ===10%=  ===1%=  =====      -----
0%-----
-----
      AB-POOL  COMMAND  HOLD      USER      ISN TAB  SEQ TAB  FORMAT  WORK

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit                                  Menu  ↵
    
```

Command Logging Report

The Command Logging report is a detailed report that contains the necessary report options for using the command logging features of Adabas Review. It may be used as an example for creating reports that perform command logging. For more information about the use of the command logging report options, refer to the section *Logging Options*, in the *Adabas Review User's Guide*.

The following report options are required for command logging and are used in this report:

Detail/Sum	D
Print	N
Log	Y
File	name
Num of Logs	number
Log Size	number

A command log report must be a detailed report so that it produces a straight recording of each command processed by Adabas.

Data fields are not used in reports that perform command logging. Because it is a detailed report and cannot be viewed online, and because the PRINT option is set to "N", field information entered on the Edit Report screen produces no effect.

The following report options used in this report are *not* required for command logging:

AutoStart	Y
Log FB	Y
Log SB	Y
Log RB	Y
Log VB	Y
Log IB	Y
Log IO	Y

Commands By Hour Report

The Commands by Hour report shows Adabas processing activity, by command, on an hourly basis. The processing activity shown includes the total number of commands, the total and average number of I/Os, and the total command response time.

```

03:39:06                                COMMANDS BY HOUR                                2009-06-20
                                03:37:16 2009-06-20 Thru 03:38:58 2009-06-20                                HUB=15690
                                                                                               Page:    1

```

Time	Cmd	Total Num-of-I/Os	Total Commands	Total Cmd-Resp	Avg Num-of-I/Os
03:00	L3	0	12	0.998400	0.000
	RC	0	2	0.003584	0.000
	S1	0	28	3.218432	0.000
*****	***	0	42	4.220416	0.000
*****	***	0	42	4.220416	0.000
***** E N D O F R E P O R T *****					

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit          --          +          ===> Menu  ←

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
CMD	2							
IOS		Y			Y			
COMMANDS		Y						
CMDRESP		Y			Y			

Report Options Selected

AUTOSTART = Y
MAX K = 8

Report Processing Rules

None.

Cost Accounting Example Report

The Cost Accounting Example report is a summary report designed to show how Adabas Review may be used to produce cost accounting reports about Adabas resource consumption.

For more information about this report, see the section *Cost Accounting Example*, in *Adabas Review Concepts Manual*.

Descriptor Usage Report

The Descriptor Usage Report shows processing done for Adabas fields used as descriptors. Commands are shown with the descriptor name for the field on which the command was performed. Processing statistics are given for each command, whether or not the command was performed on a descriptor.

```

03:41:00                                DESCRIPTOR USAGE REPORT                                2009-06-20
                                03:37:25 2009-06-20 Thru 03:40:29 2009-06-20                                HUB=15690
                                                                                               Page:    1
                                                                                               Total
File  Cmd  Desc-Name  Total          Total          Total          Total
                   Num-of-IOs  Commands      ADA-Dur      ISN-Qty
-----
      0 RC                                0              3          0.000336          0
***** *** *****
      50 L3 01                                0              12         0.000592          0
          S1                                0              2          0.000416          2
          S1 01                                0              25         0.005552         25
          S1 T1                                0              1          0.000304          1
***** *** *****
***** *** *****                                0              40         0.006864         28
***** *** *****                                0              43         0.007200         28

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                Menu  ↵

```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
FILE	1							
CMD	2							
SBFIELDS	3							
IOS		Y						
COMMANDS		Y						
ADADURA		Y						
ISNQ		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

Exceptional Response Codes Report

The Exceptional Response Codes report gives a snapshot of the processing environment at the time that an Adabas command returns an exceptional response code. (Response codes are exceptional if they are *not* equal to 0, 3, 9, 17, or 48.) The information collected by this report may be used to help determine the cause and resolve the condition causing the exceptional response code.

```

11:27:13                EXCEPTIONAL RESPONSE CODES                2003-07-07
                        10:50:09 1999-06-23 Thru 10:54:51 1999-06-23  LOCL=00009

   Seq      CQ-Job  TPuserid  NAT-App1  NAT-Pgm   NAT-Stmt  Cmd  File  Rsp  Rspsub
-----
 203871  COMPLETE  USER1    PAA       MGLNVAUD  3110     L4   63   113   0
 204158  COMPLETE  USER2    PAA       MGLNVAUD  3110     L4   63   113   0
 204689  COMPLETE  USER3    PAA       MGLNVAUD  3110     L4   63   113   0
*****  *****  *****  *****  *****  *****  ***  ****  *****
*****  E N D    O F      R E P O R T  *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                               +                               ==>  Menu
    
```


This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQ	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
NATSTMT	6							
CMD	7							
FILE	8							
RSP	9							
RSPSUB	10							
IOS	11							
ADADURA	12							
CID	13							

Report Options Selected

AUTOSTART = Y

Report Processing Rules

RSP NE (0,3,9,17,48)

File Usage Report

The File Usage report breaks down file usage into the types of processing done to the file. It shows the total number of associator and data storage I/Os executed, the descriptor updates performed, the command response time used, the amount of Adabas processing time required, and the total number of commands.

Supplied Report Reference

```

03:43:13                                FILE USAGE                                2009-06-20
                                03:37:35 2009-06-20 Thru 03:42:23 2009-06-20      HUB=15690
                                                                Page:    1
File      Total      Total      Total      Total      Total
          Asso-IOs   Data-IOs   Commands  Desc-Upd   Cmd-Resp
-----
          0          0          0          4          0          0.007168
          50         0          0          38         0          3.986944
*****   0          0          42         0          3.994112

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          ==>  Menu  ←
  
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
FILE	1							
ASSOIO		Y						
DATAIO		Y						
COMMANDS		Y						
DESUPD		Y						
CMDRESP		Y						
DURATION		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

Hourly Database Overview Report

The Hourly Database Overview report shows the processing done in the database which is currently selected, on an hourly basis. It gives the total number of commands and I/Os, the total and average command response time (CMDRESP), and the average Adabas thread processing time (ADADURA).

```

04:08:00                                HOURLY DATABASE OVERVIEW                                2009-06-20
                                03:37:42 2009-06-20 Thru 04:07:29 2009-06-20                                HUB=15690
                                                                                                            Page:    1

```

Time	File	Total Num-of-I/Os	Total Commands	Total Cmd-Resp	Total ADA-Dur
03:00	0	0	12	0.021504	0.001872
	50	0	51	5.481216	0.008976
*****	*****	0	63	5.502720	0.010848
04:00	0	0	4	0.007168	0.000624
	50	0	8	0.919552	0.001840
*****	*****	0	12	0.926720	0.002464
*****	*****	0	75	6.429440	0.013312

```

*****  E N D    O F    R E P O R T    *****

```

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + ==> Menu ←

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

▪ Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
FILE	2							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y			Y			
ADADURA		Y			Y			

Report Options Selected

Defaults.

Report Processing Rules

None.

I/O Count by Hour Report

The I/O Count by Hour report calculates and displays information on an hourly basis. It shows the total I/Os, and breaks them into totals for the associator, the data storage area, and the work area. Total number of commands is also shown. The processing rule "IOS GT 0" assures that reporting is on commands issuing at least one I/O.

```

11:35:38                                IO COUNT BY HOUR                                2003-07-07
                                           10:32:13 1999-06-23 Thru 11:35:37 1999-06-23  LOCL=00009
Time      Total      Total      Total      Total      Total
         Ios      Commands  Asso-Ios  Data-Ios  Work-Ios
-----
10:00      3913         2140         1862         1737         314
11:00      5245         2899         2554         2319         372
*****      9158         5039         4416         4056         686
*****  E N D   O F   R E P O R T   *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                                +                                Menu
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
IOS		Y						
COMMANDS		Y						
ASSOIO		Y						
DATAIO		Y						
WORKIO		Y						

Report Options Selected

ENTRIES = 99999

Report Processing Rules

IOS GT 0

I/O Summary... Reports

The two I/O summary reports, I/O Summary by RABN and *I/O Summary by Volume*, may be used to determine the components against which I/Os are performed. For commands issuing at least one I/O, these reports list the Adabas component against which the I/O was performed, and either the Adabas relative block number or the volume serial number of the device.

- [I/O Summary by RABN Report](#)

- [I/O Summary by Volume Report](#)

I/O Summary by RABN Report

The I/O Summary by Volume report is an example of an I/O summary report.

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
IOCOMP	1							
IORABN	2							
COMMANDS		Y						

Report Options Selected

```
ENTRIES = 99999
```

Report Processing Rules

```
IOS GT 0
```

I/O Summary by Volume Report

The I/O Summary by Volume report is an example of an I/O summary report.

```

11:36:43                                IO SUMMARY BY VOLUME                                2003-07-07
                                           10:33:08 1999-06-23 Thru 11:36:42 1999-06-23    LOCL=00009
                                           Total
Volser IO-TYPE IO-Comp  Commands
-----
RD0008 ASSO  AC1      1172
        ASSO  AC2        7
        ASSO  AS       386
        ASSO  FCB      193
        ASSO  FDT      103
        ASSO  NI1     1704
        ASSO  UI1      881
        ASSO  UI2       12
        DATA DS       161
        DATA DS1     3562
        DATA DS2      183
        DATA DS3       37
        DATA DS4      150

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                                +                                Menu
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
IOVOLSER	1							
IOTYPE	2							
IOCOMP	3							
COMMANDS		Y						

Report Options Selected

ENTRIES = 99999

Report Processing Rules

IOS GT 0

Job Overview Report

The Job Overview report shows processing activity for jobs or tasks issuing Adabas calls. For the job or task, it shows the file number accessed, the total number of I/Os and commands, and the total command response time (CMDRESP) and Adabas thread processing time used (ADADURA).

```

03:55:38                                JOB OVERVIEW                                2009-06-20
                                03:38:08 2009-06-20 Thru 03:54:30 2009-06-20          HUB=15690
                                                                Page:    1

```

CQ-Job	File	Cmd	Total Num-of-I/Os	Total Commands	Total Cmd-Resp	Total ADA-Dur
?~??q	0 RC		0	8	0.014336	0.001184
	50 L3		0	12	0.998400	0.000592
	50 S1		0	26	2.988544	0.005344
*****	*****	***	0	46	4.001280	0.007120
*****	*****	***	0	46	4.001280	0.007120
***** E N D O F R E P O R T *****						

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit      --      +      Menu  ↵

```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
FILE	2							
CMD	3							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

Last 500 Adabas Calls Report

The Last 500 Adabas Calls report lists the last 500 Adabas call in order by Adabas sequence number. This report uses the report option "DISPLAY BY=SORTEDDE" which lists the calls in order by sequence number, starting with the most recent sequence number first.

The order in which the sequence numbers are displayed may be changed by using a different "DISPLAY BY=" option. The number of calls shown can be varied from 500, by changing the "ENTRIES=" option to any number desired. For example, "ENTRIES=100" displays the last 100 Adabas calls.

Supplied Report Reference

```

03:57:18                LAST 500 ADABAS CALLS                2009-06-20
                   03:38:15 2009-06-20 Thru 03:57:07 2009-06-20      HUB=15690
                                                                Page:    1

```

Sequence	TPUserid	NAT-App1	NAT-Pgm	File	Cmd	Rsp	Total-Dur
228047	USER1	SYS410DB	SR-00038	0	RC	0	0.000304
228046	USER1	SYS410DB	SR-00038	17	L3	0	0.000864
228045	USER1	SYS410DB	SR-00038	17	L3	0	0.005328
228044	USER1	SYS410DB	SR-00038	17	L3	0	0.000512
228043	USER1	SYS410DB	SR-00038	17	L3	0	0.004272
228042	USER1	SYS410DB	SR-00038	17	L3	0	0.000640
228041	USER1	SYS410DB	SR-00038	17	L3	0	0.089600
228040	USER2	SYS410DB	P-DBLS	0	RC	0	0.000320
228039	USER3	SYS410DB	S-DBEXIT	0	ET	0	0.030048
228038	USER3	SYS410DB	S-DBEXIT	17	A1	0	0.029248
228037	USER3	SYS410DB	S-DBEXIT	17	S4	0	0.000768
228036	USER3	SYS410DB	S-DBEXIT	17	A1	0	0.026256
228035	USER3	SYS410DB	S-DBEXIT	17	S4	0	0.000544

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit + ==> Menu

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQ	1							
TPUSERID	2							
NATAPPL	3							
NATPROG	4							
FILE	5							
CMD	6							
RSP	7							
TOTDURA	8							
IOS	9							

Report Options Selected

```
WRAPPING = Y
MAX K = 48
DISPLAY BY = SORTEDDE
ENTRIES = 500
```

Report Processing Rules

None.

Long Running Commands Report

The Long Running Commands report shows commands with a duration greater than three seconds and I/Os greater than 200.

The report processing rule "ADADURA GT 3.0" determines that commands with a duration greater than three seconds are selected for this report; to change the duration for the commands selected, change the number "3.0" to any number desired. Similarly, the report processing rule "IOS GT 200" selects commands with more than 200 I/Os; to change the I/O criterion for the commands selection, change "200" to any number desired.

```
11:54:53                                LONG RUNNING COMMANDS                                2003-07-07
09:52:56 1999-06-16 Thru 11:50:35 1999-06-16      LOCL=00009
Seq      CQ-Job  TPUserid NAT-App1 NAT-Pgm  Cmd File Rsp      IOs
-----
13375591 COM000R USER1   SYSCNT2 NIDES2   S1   65   0      389
13377560 COM000R USER2   SYSCNT2 NIDES2   S1   65   0      383
13384954 COM000R USER3   SYSCNT2 NIDES2   S1   65   0      393
13390282 COM000R USER4   SYSCNT2 NIDES2   S1   65   0      386
13393597 COM000R USER5   SYSCNT2 NIDES2   S1   65   0      388
13404627 COM000R USER6   SYSCNT2 NIDES2   S1   65   0      489
*****
*****  E N D    O F    R E P O R T    *****
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                                +                               ==> Menu
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQ	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
RSP	8							
IOS	9							
ADADURA	10							
CID	11							

Report Options Selected

Defaults.

Report Processing Rules

```
ADADURA GT 3.0 AND
IOS GT 200
```

Natural Program Trace Report

The Natural Program Trace report shows processing activity for a specific Natural program, sorted by Adabas sequence number. To specify the program to be reported on, use the processing rules:

```
NATAPPL EQ MYLOGON
```

where *MYLOGON* is the program library name; and

NATPROG EQ MYPROG

where *MYPROG* is the program name.

Here is a sample of the report:

```

15:14:55                NATURAL PROGRAM TRACE                2003-07-07
                        14:12:56 1999-06-28 Thru 14:12:59 1999-06-28  LOCL=00009

```

Seq	Cmd	File	Rsp	CID	ADA-Dur	Cmd-Resp	I/Os
375126	L3	12	0	09700101	0.004672	0.000112	1
375127	L3	12	0	09700101	0.003184	0.000112	0
375128	L3	12	0	09700101	0.000384	0.000112	0
375129	L3	12	0	09700101	0.000496	0.000112	0
375130	L3	12	0	09700101	0.000384	0.000112	0
375131	L3	12	0	09700101	0.000352	0.000112	0
375132	L3	12	0	09700101	0.001456	0.000112	0
375133	L3	12	0	09700101	0.000352	0.000112	0
375134	L3	12	0	09700101	0.000352	0.000112	0
375135	L3	12	0	09700101	0.000432	0.000112	0
375136	L3	12	0	09700101	0.000528	0.000112	0
375137	L3	12	0	09700101	0.000352	0.000112	0
375138	S1	0	17	47550101	0.000048	0.000144	0

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit + Menu

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CMD	2							
FILE	3							
RSP	4							
CID	5							
ADADURA	6							
CMDRESP	7							

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
I0S	8							

Report Options Selected

Defaults.

Report Processing Rules

NATAPPL EQ MYLOGON AND
 NATPROG EQ MYPROG

Natural Summary Report

The Natural Summary report shows processing activity for a Natural application on a program-by-program basis.

```

12:12:53                                NATURAL SUMMARY                                2009-06-22
                                03:38:32 2009-06-20 Thru 12:12:30 2009-06-22                                HUB=15690
                                                                                               Page:    1

NAT-App1  NAT-Pgm   File  Cmd   Total          Total          Total
          NAT-Pgm   File  Cmd   Num-of-IOs     Commands     Cmd-Resp
-----
          0  OP          0          1          0.506112
          0  RC          0          23         0.041216
          50 L1         0          1          0.704768
          50 L3         0          64         5.324800
          50 S1         0          44         5.057536
***** ***** ***** ***          0          133         11.634432
***** ***** ***** ***          0          133         11.634432

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          ==>  Menu  <-
    
```

```

12:12:53                NATURAL SUMMARY                2009-06-22
                        03:38:32 2009-06-20 Thru 12:12:30 2009-06-22      HUB=15690

      Total
NAT-App1  ADA-Dur
-----
                        0.096368
                        0.003088
                        0.000288
                        0.023664
                        0.019856
                        0.143264
                        0.143264

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          <===          Menu  ↵
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
NATAPPL	1							
NATPROG	2							
FILE	3							
CMD	4							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

Natural Transaction Trace Report

The Natural Transaction Trace report shows processing activity by transaction number using the TPTRANNM field. Data is broken down by Natural application and program name.

04:06:06		NATURAL TRANSACTION TRACE					2009-06-20
		03:38:39 2009-06-20 Thru 04:05:15 2009-06-20					HUB=15690
							Page: 1
Trans Nr	NAT-App1	NAT-Pgm	File	Cmd	Rsp	Total Commands	
140	SYS410DB	P-DBST	0	RC	0	1	
	SYS410DB	P-DBST	0	S1	17	1	
	SYS410DB	S-DBEXIT	0	ET	0	1	
*****	*****	*****	****	***	****	3	
141	SYS410DB	S-ST241	0	ET	0	1	
	SYS410DB	S-ST241	17	A1	0	2	
	SYS410DB	S-ST241	17	S4	0	2	
*****	*****	*****	****	***	****	5	
595	PAC13		15	L3	0	11	
*****	*****	*****	****	***	****	11	
596	PAC13		15	L3	0	11	
*****	*****	*****	****	***	****	11	
597	PAC13		0	RC	0	1	

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---

Help Sort Exit + Menu

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
NATAPPL	2							
NATPROG	3							
FILE	4							
CMD	5							
RSP	6							
COMMANDS		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

PRILOG Report

The PRILOG Report duplicates the information provided by the PRILOG program, which is supplied with Adabas and is used to print command logs.

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

▪ Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
TIME	2							
DURATION	3							
CQJOB	4							
USERID	5							
CMD	6							
RSP	7							
CID	8							
FILE	9							
ISN	10							
THREAD	11							
PRI	12							
ASSOIO	13							

Report Options Selected

Defaults.

Report Processing Rules

None.

Rate of Commands and I/Os by Date Report

The Rate of Commands and I/Os by Date report calculates and displays the total and average rate of commands and I/Os by hour for a specific date.

```

12:30:37          RATE OF COMMANDS AND IOS BY DATE          2009-06-22
                04:10:23 2009-06-20 Thru 12:29:51 2009-06-22  HUB=15690
                                                                Page:    1

   Date      Time      Total      Total      Rate      Rate
   -----  -----  Num-of-IOS  Commands  Num-of-IOS  Commands
   -----  -----  -----  -----  -----  -----
2009-06-20  04:00           0          41         0.0         0.0
*****      *****           0          41
2009-06-22  12:00           0         174         0.0         0.0
*****      *****           0         174
*****      *****           0         215

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          Menu  ↵
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
DATE	1							
HOUR	2							
IOS		Y					Y	
COMMANDS		Y					Y	

Report Options Selected

MAX K = 16

Report Processing Rules

None.

Rate of Commands and I/Os by Hour Report

The Rate of Commands and I/Os by Hour report calculates and displays the total and average rate of commands and I/Os by hour.

```
12:32:48          RATE OF COMMANDS AND IOS BY HOUR          2009-06-22
                   04:10:29 2009-06-20 Thru 12:32:14 2009-06-22      HUB=15690
                                                Page:      1
```

Time	Total Num-of-I/Os	Total Commands	Rate Num-of-I/Os	Rate Commands
04:00	41	71	0.0	0.0
05:00	2503	6040	0.7	1.7
06:00	5189	12280	1.5	3.4
07:00	3408	9674	1.0	2.8
08:00	12024	39308	3.4	11.1
09:00	10970	24753	9.9	22.3
*****	34135	92126		

***** E N D O F R E P O R T *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit + Menu

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
I/Os		Y					Y	
COMMANDS		Y					Y	

Report Options Selected

Defaults.

Report Processing Rules

None.

Summary Report by File Report

The Summary Report by File shows Adabas processing activity by file number and file name. Within each file, command types are listed, showing the total number of this type of command, total and average I/Os, total and average Adabas thread processing time (ADADURA), and total and average command response time (CMDRESP).

Supplied Report Reference

```

12:34:51                SUMMARY REPORT BY FILE                2009-06-22
                        04:10:37 2009-06-20 Thru 12:34:40 2009-06-22      HUB=15690
                                                                Page:    1

File      File Name      Cmd      Total      Total      Total
          File Name      Cmd      Num-of-IOs  Commands  ADA-Dur
-----
      0          OP          0          1          0.096368
          RC          0          24         0.002512
***** ***** ***          0          25         0.098880
      50          L3          0          1          0.000000
          ?USER Reposito L1          0          1          0.000288
          ?USER Reposito L3          0          165         0.035312
          ?USER Reposito S1          0          28          0.014752
***** ***** ***          0          195         0.050352
***** ***** ***          0          220         0.149232

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          ==>  Menu  <-

```

```

12:34:51                SUMMARY REPORT BY FILE                2009-06-22
                        04:10:37 2009-06-20 Thru 12:34:40 2009-06-22      HUB=15690

File      Total      Avg      Avg      Avg
          Cmd-Resp  Num-of-IOs  ADA-Dur  Cmd-Resp
-----
      0          0.506112      0.000      0.096368  0.506112
          0.043008      0.000      0.000104  0.001792
          0.549120      0.000      0.003955  0.021964
      50          0.081920      0.000      0.000000  0.081920
          0.704768      0.000      0.000288  0.704768
          13.647872      0.000      0.000214  0.082714
          3.218432      0.000      0.000526  0.114944
          17.652992      0.000      0.000258  0.090528
          18.202112      0.000      0.000678  0.082736

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          <===  Menu  <-

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
FILE	1							
FILENAME	2							
CMD	3							
IOS		Y			Y			
COMMANDS		Y						
ADADURA		Y			Y			
CMDRESP		Y			Y			

Report Options Selected

AUTOSTART = Y
MAX K = 8

Report Processing Rules

None.

Thread Activity Report

The Thread Activity report shows processing activity broken down for individual Adabas threads. Each thread number shows the total number of commands, the total and average number of I/Os, and the average amount of command processing time per command; i.e., the time the command spent in the command queue added to the Adabas command processing time (TOTDURA).

```

12:37:06                                THREAD ACTIVITY                                2009-06-22
                                04:10:46 2009-06-20 Thru 12:36:44 2009-06-22                                HUB=15690
                                                                                                            Page:    1

Thread      Total          Total          Avg          Avg
            Num-of-IOs    Commands      Num-of-IOs    Total-Dur
-----
1           12743          27843          0.457         0.011301
2            470          1024           0.458         0.016938
3            133           159            0.836         0.019639
*****    13346          29026          0.459         0.011546
*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                                +                                Menu
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
THREAD	1							
IOS		Y			Y			
COMMANDS		Y						
TOTDURA					Y			

Report Options Selected

Defaults.

Report Processing Rules

None.

Thread Activity by Command Report

The Thread Activity by Command report breaks thread activity down into command types, then shows the total number of commands, the total and average number of I/Os per command, and the total and average amount of command processing time per command.

```

12:42:29                                THREAD ACTIVITY BY COMMAND                                2009-06-22
                                12:40:31 2009-06-22 Thru 12:42:13 2009-06-22                                HUB=15690
                                                                                                            Page:    1

```

Thread	Cmd	Total Num-of-I/Os	Total Commands	Total Total-Dur	Total ADA-Dur
1	L3	0	18	65281.124466	0.002160
	RC	0	1	3840.066162	0.000144
	S1	0	36	138242.384728	0.008080
*****	***	0	55	207363.575356	0.010384
*****	***	0	55	207363.575356	0.010384

```

*****  E N D    O F    R E P O R T    *****

```

Command: _____

```

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          ==>  Menu  ↵

```

Supplied Report Reference

```

12:42:29          THREAD ACTIVITY BY COMMAND          2009-06-22
                12:40:31 2009-06-22 Thru 12:42:13 2009-06-22          HUB=15690

```

Thread	Total CQ Dur	Avg Num-of-IOs	Avg Total-Dur	Avg ADA-Dur
1	65281.122306	0.000	3626.729137	0.000120
	3840.066018	0.000	3840.066162	0.000144
	138242.376648	0.000	3840.066242	0.000224
	207363.564972	0.000	3770.246824	0.000188
	207363.564972	0.000	3770.246824	0.000188

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- + <=== ===> Menu ↵

```

12:42:29          THREAD ACTIVITY BY COMMAND          2009-06-22
                12:40:31 2009-06-22 Thru 12:42:13 2009-06-22          HUB=15690

```

Thread	Avg CQ Dur
1	3626.729017
	3840.066018
	3840.066018
	3770.246635
	3770.246635

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- + <=== Menu ↵

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
THREAD	1							
CMD	2							
IOS		Y			Y			
COMMANDS		Y						
TOTDURA		Y			Y			
ADADURA		Y			Y			
CQDURA		Y			Y			

Report Options Selected

Defaults.

Report Processing Rules

None.

Transaction Count... Reports

For transaction numbers not equal to zero, the Transaction Count reports calculate and display the *total*:

- number of completed Adabas transactions for the user;
- number of commands performed for the transactions;
- number of I/Os performed for the transactions;
- amount of command processing time; i.e., the time Adabas spent to process the command, and the time the command spent in the command queue;
- amount of time spent by Adabas to process the command;
- amount of time the command spent in the command queue.
 - [Transaction Count by Job Report](#)
 - [Transaction Count by Job-NATAPPL Report](#)
 - [Transaction Count by Job-User Report](#)

- Transaction Count by Natural Report

Transaction Count by Job Report

The Transaction Count by Job report is an example of a transaction count report.

```

17:58:55                                TRANSACTION COUNT BY JOB                                2003-07-07
                                04:50:58 1999-06-15 Thru 17:58:54 1999-06-15  LOCL=00009
      Total      Total      Total      Total
      CQ-Job    Trans-Cnt  Commands  IOs      Total-Dur
-----
CICSPROD      35971      322386    169800    2751.100528
CICSTEST      1352       19816     8503      377.155664
USER1         1387       19958     10718     412.490496
USER2          59         604       192       5.377152
BATCHJOB       4          123       53        1.454592
TSOUSER3       4          144       104       3.208336
*****      38777      363031    189370    3550.786768
*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                                +                                ==>  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANM NE 0

Transaction Count by Job-NATAPPL Report

The Transaction Count by Job-NATAPPL report includes and sorts the transaction count report by job and Natural application name.

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
NATAPPL	2							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANM NE 0

Transaction Count by Job-User Report

The Transaction Count by Job-User report includes and sorts the transaction count report by job and TP monitor user ID.

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
TPUSERID	2							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANM NE 0

Transaction Count by Natural Report

The Transaction Count by Job-User report includes and sorts the transaction count report by Natural application name and program name.

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
NATAPPL	1							
NATPROG	2							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Detailed Information Report

The Transaction Detailed Information report displays detailed processing information, by transaction number, for each transaction not equal to zero.

The processing rule "TPTRANNM NE 0" ensures that the transaction number will not be equal to zero.

Here is a sample report:

Supplied Report Reference

```

10:01:46          TRANSACTION DETAILED INFORMATION          2003-07-07
                09:54:54 1999-06-26 Thru 09:56:18 1999-06-26      LOCL=00009

  Trans Nr      Seq      TPUserid Cmd File Rsp      IOs      ADA-Dur
-----
      87        50967  USER1   RC    0    0          0      0.000080
*****
      88        50968  USER1   S4   17    0          0      0.000320
                50969  USER1   A1   17    0          0      0.000288
                50970  USER1   S4   17    0          0      0.000464
                50971  USER1   A1   17    0          0      0.002064
                50972  USER1   ET    0    0          1      0.000064
*****
      89        51005  USER2   S4   17    0          0      0.000384
                51006  USER2   A1   17    0          0      0.000400
                51007  USER2   S4   17    0          0      0.000288
                51008  USER2   A1   17    0          1      0.031280
                51009  USER2   ET    0    0          1      0.000064

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit          +          ==> Menu
  
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
SEQUENCE	2							
TPUSERID	3							
CMD	4							
FILE	5							
RSP	6							
IOS	7							
ADADURA	8							
CMDRESP	9							
CQJOB	10							
COMMANDS	11							

Report Options Selected

MAX K = 32

Report Processing Rules

TPTRANM NE 0

Transaction Summary by User Report

Similar to the Transaction Count reports, the Transaction Summary by User calculates and displays information about a user's TP transaction for transaction numbers not equal to zero.

The processing rule "TPTRANNM NE 0" ensures that the transaction number will not be equal to zero.

Here is a sample report:

```

10:02:16                                TRANSACTION SUMMARY BY USER                                2003-07-07
                                09:55:25 1999-06-26 Thru 10:01:21 1999-06-26                                LOCL=00009
TPUserid  Trans Nr      Total      Total      Total
-----  -----  -----  -----  -----
                                IOs      Commands  Total-Dur
-----  -----  -----  -----  -----
USER1          654          4          4          0.048944
                655          11         11         0.218096
                656          2          4          0.048512
***** *****
                17          19         0.315552
USER2          552          12          9          0.211936
                553          4          3          0.108320
                554          3          1          0.105456
                555          4          2          0.103792
                556          4          2          0.125264
                557          3          3          0.076016
                558          0          3          0.005376
***** *****
                30          23         0.736160
USER3          2280         5          11         0.100288
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                                +                               ==>  Menu

```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)

- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPUSERID	1							
TPTRANNM	2							
IOS		Y						
COMMANDS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

MAX K = 16

Report Processing Rules

TPTRANNM NE 0

Who is Using Natural? Report

The Who is Using Natural? report shows processing activity broken down by the individual user. Users are identified by their TP user ID.

```

13:03:25                WHO IS USING NATURAL                2009-06-22
                        12:41:09 2009-06-22 Thru 13:02:42 2009-06-22      HUB=15690
                                                                Page:    1
    
```

TPUserid	NAT-Appl	NAT-Pgm	File	Cmd	Total Num-of-IOs	Total Commands
				0 RC	0	11
				50 L3	0	6
				50 S1	0	44
*****	*****	*****	*****	***	0	61
*****	*****	*****	*****	***	0	61

***** E N D O F R E P O R T *****

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + ==> Menu ←

```

13:03:25                WHO IS USING NATURAL                2009-06-22
                        12:41:09 2009-06-22 Thru 13:02:42 2009-06-22      HUB=15690
    
```

TPUserid	Total Cmd-Resp	Total ADA-Dur
	0.019712	0.001776
	0.491520	0.000880
	5.057536	0.012656
	5.568768	0.015312
	5.568768	0.015312

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + <=== Menu ←

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPUSERID	1							
NATAPPL	2							
NATPROG	3							
FILE	4							
CMD	5							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

Who Uses SYSMAIN? Report

The Who Uses SYSMAIN? report shows jobs which are using SYSMAIN. The job name is shown, listing the individual users, denoted by the user's TP user ID.

The report processing rule "NATAPPL EQ SYSMAIN" assures that only jobs using SYSMAIN are shown. This processing rule may be modified to equal any Natural application name.

Here is a sample report:

```

10:05:06                                WHO USES SYSMAIN                                2003-07-07
                                09:57:38 1999-06-26 Thru 09:57:41 1999-06-26    LOCL=00009
                                Total          Total          Total
                                Cmd-Resp      Commands      IOs
-----
COMPLETE USER1      0          0.000784          48          1
                USER1      15          0.000672           6          2
                USER1      16          0.000304           3          7
                USER1      17          0.011056          105         70
                USER1      18          0.001280           6          10
***** ***** ****          0.014096          168         90
***** ***** ****          0.014096          168         90
*****  E N D    O F    R E P O R T  *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                                +                               ==> Menu
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
TPUSERID	2							
FILE	3							
CMDRESP		Y						
COMMANDS		Y						
IOS		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

NATAPPL EQ SYSMAIN

Worst Calls... Reports

The six Worst Calls reports list and calculate information about the 100 "worst" Adabas calls. Each report rates its commands according to certain criteria:

Worst Calls by ...	Selects the 100 calls that ...
ADADURA	required the most Adabas processing time, and calculates a total for Adabas processing time.
CQDURA	spent the longest time in the command queue, and calculates a total for command queue duration.
DESCUPD	required the most descriptor updates, and calculates the total number of descriptor updates.
IOS	caused the most I/O operations to be performed, and calculates the total number of I/Os.
ISNQ	required the most ISNs, and calculates the total number of ISNs.
TOTDURA	required the longest processing time (i.e., time in the command queue and Adabas processing time) and calculates a total for processing time.

- [Worst Calls by ADADURA Report](#)
- [Worst Calls by CQ DURA Report](#)
- [Worst Calls by DESC UPD Report](#)
- [Worst Calls by IOs Report](#)
- [Worst Calls by ISN QUAN Report](#)
- [Worst Calls by TOTDURA Report](#)

Worst Calls by ADADURA Report

The Worst Calls by ADADURA report is an example of a Worst Calls report.

13:12:51 WORST CALLS BY-> ADADURA 2009-06-22
 13:00:51 2009-06-22 Thru 13:10:53 2009-06-22 HUB=15690
 Page: 1

Sequence	CQ-Job	TPUserid	NAT-App1	NAT-Pgm	Cmd	File	ADA-Dur
932	?~??q				RC	0	0.000160
935	?~??q				RC	0	0.000208
936	?~??q				S1	50	0.000336
933	?~??q				S1	50	0.000400
934	?~??q				S1	50	0.000896
937	?~??q				S1	50	0.000640
938	?~??q				RC	0	0.000144
939	?~??q				S1	50	0.000320
940	?~??q				S1	50	0.000144
941	?~??q				RC	0	0.000160
942	?~??q				S1	50	0.000272
943	?~??q				S1	50	0.000144
946	?~??q				S1	50	0.000144

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + ==> Menu ←

13:12:51 WORST CALLS BY-> ADADURA 2009-06-22
 13:00:51 2009-06-22 Thru 13:10:53 2009-06-22 HUB=15690

Sequence	Num-of-IOs	Cmd-Resp	Total ADA-Dur	Total Commands
932	0	0.001792	0.000160	1
935	0	0.001792	0.000208	1
936	0	0.114944	0.000336	1
933	0	0.114944	0.000400	1
934	0	0.114944	0.000896	1
937	0	0.114944	0.000640	1
938	0	0.001792	0.000144	1
939	0	0.114944	0.000320	1
940	0	0.114944	0.000144	1
941	0	0.001792	0.000160	1
942	0	0.114944	0.000272	1
943	0	0.114944	0.000144	1
946	0	0.114944	0.000144	1

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + <=== Menu ←

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
ADADURA	8	Y						
IOS	9							
CMDRESP	10							
COMMANDS		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by CQ DURA Report

The Worst Calls by CQ DURA report is an example of a Worst Calls report.


```

13:16:05                WORST CALLS BY-> CQ DURA                2009-06-22
                        13:04:33 2009-06-22 Thru 13:16:00 2009-06-22  HUB=15690
                                                                Page:    1
    
```

Sequence	CQ-Job	TPUserid	NAT-App1	NAT-Pgm	Cmd	File	CQ Dur
940	?~??q				S1	50	3840.066018
941	?~??q				RC	0	3840.066018
942	?~??q				S1	50	3840.066018
943	?~??q				S1	50	3840.066018
944	?~??q				RC	0	3840.066018
945	?~??q				S1	50	3840.066018
946	?~??q				S1	50	3840.066018
947	?~??q				RC	0	3840.066018
948	?~??q				S1	50	3840.066018
949	?~??q				S1	50	3840.066018
950	?~??q				RC	0	3840.066018

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit          --          +          ==> Menu  ←
    
```

```

13:16:05                WORST CALLS BY-> CQ DURA                2009-06-22
                        13:04:33 2009-06-22 Thru 13:16:00 2009-06-22  HUB=15690
    
```

Sequence	ADA-Dur	Num-of-IOs	Total CQ Dur
940	0.000144	0	3840.066018
941	0.000160	0	3840.066018
942	0.000272	0	3840.066018
943	0.000144	0	3840.066018
944	0.000160	0	3840.066018
945	0.000304	0	3840.066018
946	0.000144	0	3840.066018
947	0.000160	0	3840.066018
948	0.000304	0	3840.066018
949	0.000144	0	3840.066018
950	0.000192	0	3840.066018
*****			42240.726198

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit          --          +          <=== Menu  ←
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
CQDURA	8	Y						
ADADURA	9							
IOS	10							

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by DESC UPD Report

The Worst Calls by DESC UPD report is an example of a Worst Calls report.

13:19:15 WORST CALLS BY-> DESC UPD 2009-06-22
 13:03:24 2009-06-22 Thru 13:19:03 2009-06-22 HUB=15690
 Page: 1

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	Desc-Upd
938	?~??q				RC	0	0
939	?~??q				S1	50	0
940	?~??q				S1	50	0
941	?~??q				RC	0	0
942	?~??q				S1	50	0
943	?~??q				S1	50	0
944	?~??q				RC	0	0
945	?~??q				S1	50	0
946	?~??q				S1	50	0
947	?~??q				RC	0	0
948	?~??q				S1	50	0
949	?~??q				S1	50	0
950	?~??q				RC	0	0

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
 Help Sort Exit -- + ==> Menu ←

13:19:15 WORST CALLS BY-> DESC UPD 2009-06-22
 13:03:24 2009-06-22 Thru 13:19:03 2009-06-22 HUB=15690

Sequence	ADA-Dur	Num-of-IOs	Total Desc-Upd	Total Commands
938	0.000144	0	0	1
939	0.000320	0	0	1
940	0.000144	0	0	1
941	0.000160	0	0	1
942	0.000272	0	0	1
943	0.000144	0	0	1
944	0.000160	0	0	1
945	0.000304	0	0	1
946	0.000144	0	0	1
947	0.000160	0	0	1
948	0.000304	0	0	1
949	0.000144	0	0	1
950	0.000192	0	0	1

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
 Help Sort Exit -- + <=== Menu ←

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
DESUPD	8	Y						
ADADURA	9							
IOS	10							
COMMANDS		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by IOs Report

The Worst Calls by IOs report is an example of a Worst Calls report.

13:23:55 WORST CALLS BY-> IOS 2009-06-22
 13:03:24 2009-06-22 Thru 13:23:40 2009-06-22 HUB=15690
 Page: 1

Sequence	CQ-Job	TPUserid	NAT-App1	NAT-Pgm	Cmd	File	Num-of-IOs
938	?~??q				RC	0	0
939	?~??q				S1	50	0
940	?~??q				S1	50	0
941	?~??q				RC	0	0
942	?~??q				S1	50	0
943	?~??q				S1	50	0
944	?~??q				RC	0	0
945	?~??q				S1	50	0
946	?~??q				S1	50	0
947	?~??q				RC	0	0
948	?~??q				S1	50	0
949	?~??q				S1	50	0
950	?~??q				RC	0	0

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + ==> Menu ←

13:23:55 WORST CALLS BY-> IOS 2009-06-22
 13:03:24 2009-06-22 Thru 13:23:40 2009-06-22 HUB=15690

Sequence	ADA-Dur	Cmd-Resp	Total Num-of-IOs	Total Commands
938	0.000144	0.001792	0	1
939	0.000320	0.114944	0	1
940	0.000144	0.114944	0	1
941	0.000160	0.001792	0	1
942	0.000272	0.114944	0	1
943	0.000144	0.114944	0	1
944	0.000160	0.001792	0	1
945	0.000304	0.114944	0	1
946	0.000144	0.114944	0	1
947	0.000160	0.001792	0	1
948	0.000304	0.114944	0	1
949	0.000144	0.114944	0	1
950	0.000192	0.001792	0	1

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + <=== Menu ←

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
IOS	8	Y						
ADADURA	9							
CMDRESP	10							
COMMANDS		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by ISN QUAN Report

The Worst Calls by ISN QUAN report is an example of a Worst Calls report.

13:27:03 WORST CALLS BY-> ISN QUAN 2009-06-22
 13:13:52 2009-06-22 Thru 13:26:53 2009-06-22 HUB=15690
 Page: 1

Sequence	CQ-Job	TPUserid	NAT-App1	NAT-Pgm	Cmd	File	ISN-Qty
950	?~??q				RC	0	0
953	?~??q				RC	0	0
956	?~??q				RC	0	0
959	?~??q				RC	0	0
948	?~??q				S1	50	1
949	?~??q				S1	50	1
951	?~??q				S1	50	1
952	?~??q				S1	50	1
954	?~??q				S1	50	1
955	?~??q				S1	50	1
957	?~??q				S1	50	1
958	?~??q				S1	50	1

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
 Help Sort Exit -- + ==> Menu ←

13:27:03 WORST CALLS BY-> ISN QUAN 2009-06-22
 13:13:52 2009-06-22 Thru 13:26:53 2009-06-22 HUB=15690

Sequence	ADA-Dur	Num-of-IOs	Total ISN-Qty	Total Commands
950	0.000192	0	0	1
953	0.000144	0	0	1
956	0.000176	0	0	1
959	0.000192	0	0	1
948	0.000304	0	1	1
949	0.000144	0	1	1
951	0.000320	0	1	1
952	0.000128	0	1	1
954	0.000288	0	1	1
955	0.000160	0	1	1
957	0.000336	0	1	1
958	0.000176	0	1	1
*****			8	12

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
 Help Sort Exit -- + <=== Menu ←

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
ISNQ	8	Y						
ADADURA	9							
IOS	10							
COMMANDS		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by TOTDURA Report

The Worst Calls by TOTDURA report is an example of a Worst Calls report.

13:47:18 WORST CALLS BY-> TOTDURA 2009-06-22
 13:13:52 2009-06-22 Thru 13:46:58 2009-06-22 HUB=15690
 Page: 1

Sequence	TPUserid	NAT-Pgm	Cmd	Total-Dur	ADA-Dur
949			S1	3840.066162	0.000144
950			RC	3840.066210	0.000192
952			S1	3840.066146	0.000128
953			RC	3840.066162	0.000144
954			S1	3840.066306	0.000288
955			S1	3840.066178	0.000160
956			RC	3840.066194	0.000176
958			S1	3840.066194	0.000176
959			RC	3840.066210	0.000192
960			S1	0.000000	0.000000
961			OP	3840.066290	0.000272
962			RC	3840.066162	0.000144
963			S1	3840.066194	0.000176

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + ==> Menu ←

13:47:18 WORST CALLS BY-> TOTDURA 2009-06-22
 13:13:52 2009-06-22 Thru 13:46:58 2009-06-22 HUB=15690

Sequence	CQ Dur	File	CQ-Job	NAT-App1	Total Total-Dur
949	3840.066018	50	?~??q		3840.066162
950	3840.066018	0	?~??q		3840.066210
952	3840.066018	50	?~??q		3840.066146
953	3840.066018	0	?~??q		3840.066162
954	3840.066018	50	?~??q		3840.066306
955	3840.066018	50	?~??q		3840.066178
956	3840.066018	0	?~??q		3840.066194
958	3840.066018	50	?~??q		3840.066194
959	3840.066018	0	?~??q		3840.066210
960	0.000000	50	?~??q		0.000000
961	3840.066018	0	?~??q		3840.066290
962	3840.066018	0	?~??q		3840.066162
963	3840.066018	50	?~??q		3840.066194

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- + <=== ==> Menu ←

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
TPUSERID	2							
NATPROG	3							
CMD	4							
TOTDURA	5	Y						
ADADURA	6							
CQDURA	7							
FILE	8							
CQJOB	9							
NATAPPL	10							
COMMANDS		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Transactions... Reports

The three Worst Transactions reports list and calculate information about the 100 worst transactions. Each report rates its transactions according to certain criteria:

Worst Transactions by ...	Selects the 100 transactions that ...
Calls	issued the most Adabas calls.
Duration	required the most Adabas processing time, including time spent in the command queue.
IOS	caused the most I/O operations to be performed.

The number of transactions shown can be varied from 100, by changing the "ENTRIES=" option to any number desired. For example, "ENTRIES=50" displays the 50 worst transactions.

- [Worst Transactions by Calls Report](#)
- [Worst Transactions by Duration Report](#)
- [Worst Transactions by IOs Report](#)

Worst Transactions by Calls Report

The report Worst Transactions by Calls report is an example of a Worst Transactions report.

```

13:53:22                                WORST TRANSACTIONS BY CALLS                                2009-06-22
                                12:41:47 2009-06-22 Thru 13:53:02 2009-06-22                                HUB=15690
                                                                                                            Page:    1

  Trans Nr  TPUserid NAT-App1      Total      Total      Total
                                Num-of-IOs  Commands  Total-Dur
-----
              0                                0          177      672011.706686
***** ***** *****                                0          177      672011.706686

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --          +                ==>  Menu  <-
    
```

Supplied Report Reference

```

13:53:22                WORST TRANSACTIONS BY CALLS                2009-06-22
                        12:41:47 2009-06-22 Thru 13:53:02 2009-06-22      HUB=15690

Trans Nr      Total      Total
             ADA-Dur      CQ Dur
-----
              0          0.153536    672011.553150
              0          0.153536    672011.553150

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          <===          Menu  ←
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
TPUSERID	2							
NATAPPL	3							
IOS		Y						
COMMANDS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

DISPLAY BY = USAGE
ENTRIES = 100

Report Processing Rules

None.

Worst Transactions by Duration Report

The report Worst Transactions by Duration report is an example of a Worst Transactions report.

```

13:55:05                WORST TRANSACTIONS BY DURATION                2009-06-22
                        12:41:51 2009-06-22 Thru 13:54:55 2009-06-22      HUB=15690
                                                                Page:    1
  Trans Nr   TPUserid NAT-Appl      Total          Total          Total
  -----   -
           0                668171.641036      176             0
*****      *****      *****      668171.641036      176             0
*****      E N D      O F      R E P O R T      *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit          --          +          ==> Menu  ←
  
```

Supplied Report Reference

```

13:55:05                WORST TRANSACTIONS BY DURATION                2009-06-22
                        12:41:51 2009-06-22 Thru 13:54:55 2009-06-22      HUB=15690

Trans Nr          Total          Total
                ADA-Dur          CQ Dur
-----
                0          0.153904    668171.487132
                0.153904    668171.487132

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          <===          Menu  ↵

```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
TPUSERID	2							
NATAPPL	3							
TOTDURA		Y						
COMMANDS		Y						
IOS		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

```

DISPLAY BY = SUMFIELD
ENTRIES = 100

```

Report Processing Rules

None.

Worst Transactions by IOs Report

The report Worst Transactions by IOs report is an example of a Worst Transactions report.

```

13:58:05                                WORST TRANSACTIONS BY IOS                                2009-06-22
                                           12:42:13 2009-06-22 Thru 13:58:01 2009-06-22                                HUB=15690
                                                                                                                                 Page:    1

```

Trans Nr	TPUserid	NAT-App1	Total Num-of-IOs	Total Commands	Total Total-Dur
0			0	175	664331.577274
*****	*****	*****	0	175	664331.577274

```

*****  E N D    O F    R E P O R T    *****

```

Command: _____

```

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          ==>  Menu  ↵

```

Supplied Report Reference

```

13:58:05                WORST TRANSACTIONS BY IOS                2009-06-22
                        12:42:13 2009-06-22 Thru 13:58:01 2009-06-22      HUB=15690

Trans Nr      Total      Total
             ADA-Dur    CQ Dur
-----
              0          0.156160    664331.421114
              0          0.156160    664331.421114

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          <===          Menu  ↵
    
```

This section covers the following topics:

- [Fields Selected](#)
- [Report Options Selected](#)
- [Report Processing Rules](#)

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
TPUSERID	2							
NATAPPL	3							
IOS		Y						
COMMANDS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

4 Summary Record Layout

- The Header Portion 164
- The Schema Portion 164
- The Data Portion 166

This chapter describes the format of the summary records copied to a sequential output file.

The Header Portion

A fixed-length header is created for each record written to the sequential file. The format of the header is described in the following table:

Offset		Length Bytes	Format	Explanation
Hex	Decimal			
0	0	2	Binary	Record Length
2	2	2	Binary	X'0000'
4	4	3	Alphanumeric	Eye catcher "SUM"
7	7	1	Alphanumeric	Record type "H" for header
8	8	32	Alphanumeric	Report name
28	40	8	Binary	STCK value when record gets written
30	48	1	Binary	Flag of trigger event: X'01' -- report is closed or suspended X'02' -- time interval reached X'04' -- trigger command executed X'08' -- report is closed and restarted
31	49	1	Binary	Unused
32	50	10	Alphanumeric	Date of first record (YYYY-MM-DD)
3C	60	8	Alphanumeric	Time of first record (HH:MM:SS)
44	68	10	Alphanumeric	Date of last record (YYYY-MM-DD)
4E	78	8	Alphanumeric	Time of last record (HH:MM:SS)
56	86	2	Binary	Database ID
58	88	2	Binary	Offset to data record
5A	90	6	Binary	Unused

The Schema Portion

This portion of the summary record varies, depending upon the fields used in the report. The schema describes the layout of the field data which follows afterwards. The format of the schema portion of the summary record is shown in the following table:

Offset		Length Bytes	Format	Explanation
Hex	Decimal			
60	96	2	Binary	Record Length
62	98	2	Binary	X'0000'
64	100	3	Alphanumeric	Eye catcher "SUM"
67	103	1	Alphanumeric	Record type "S" for schema
68	106	6	Binary	Unused
6E	104	2	Binary	Total number of fields
Varies +00	Varies +0	8	Alphanumeric	Field name (see the Field Reference , elsewhere in this guide) ¹
+08	+8	2	Binary	Data length
+0A	+10	1	Alphanumeric	Data format C'B' -- binary X'C' -- character
+0B	+11	1	Alphanumeric	Field type C'A' -- Account field C'C' -- Cost field C'M' -- Minimum field C'P' -- Percent field C'R' -- Rate field C'S' -- Summary field C'T' -- Total field C'V' -- Average field C'X' -- Maximum field

¹ The following fields use alternate names than the one listed in the field reference list.

Field Name in the Field Reference	Field Name in the Summary Record
ADDIT _x	ADD _x
FILE	FNR
IOS	IO
NATAPPL	LOG
NATPROG	PRO
NUCID	SMP
RESPONSE	RSP

Determining the Format of the Variable Portion

▶ To determine the format of the variable portion of the record:

- Refer to the report definition for each field (including virtual fields such as summary fields). Twelve bytes in total are reserved for the field name, the data length, the format of the field, and the field type.

The Data Portion

This portion of the summary record varies, depending upon the fields used in the report. The data portion contains the contents of the fields that are described in the [schema portion](#). The format of the data portion of the summary record is shown in the following table:

Offset		Length Bytes	Format	Explanation
Hex	Decimal			
Varies +0	Varies +0	2	Binary	Record Length
+2	+2	2	Binary	X'0000'
+4	+4	3	Alphanumeric	Eye catcher "SUM"
+7	+7	1	Alphanumeric	Record type "D" for data
+8	+8	Varies	Binary/alphanumeric	Data portion for all fields, as defined in the schema portion .

Determining the Format of the Variable Portion

▶ To determine the format of the variable portion of the record:

- Refer to the [schema portion](#) of this record. For each report field, the data length and format are stored.

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