

# Running Reports as Batch Jobs

Adabas Review may be used in batch processing mode to monitor resource usage for applications and databases by extracting data fields from the command log files generated by Adabas or Adabas Review.

To produce batch reports, the Adabas Review processor requires parameter statements and job control to run against the command log records. Report parameter statements can be manually created or they can be generated using the GENCARD command and subsequently edited, if required. Once the report statements are set up, the user submits the job stream for batch execution.

This part of the documentation describes how to use the GENCARD command to generate batch parameter statements. It also describes the statements required and presents guidelines for creating batch parameter statements without using the GENCARD command. It covers the following topics:

- Generating Batch Report Parameters
- Using Batch Report Statements
- Batch Processor Job Control Requirements

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## Generating Batch Report Parameters

The GENCARD command creates batch report parameter statements from field and report processing information you provide through the Edit Report (ER) function. The GENCARD command also uses the target database information it obtains from the List Target Definitions (LT) function.

By using the GENCARD command to generate batch report parameters, you can run any online report in batch mode.

### ▶ To use the GENCARD command:

1. Access the Edit Report (ER) function.
2. Create the report definition in the same way that you create an online report definition; then save it by pressing PF5.

For more information, read *Maintaining Report Definitions*.

3. Enter the command GENCARD or GC on the command line.

The Generate Report Definition Cards window appears as shown in the example below:

```
Generate Report Definition Cards
Please enter the following information for generation

File/DDNAME for output .... RVUCARD
Report Definition Prefix .. _____
```

4. On the line labeled "File/DDNAME for output", type the file or DD name for the sequential file where the batch report parameter statements are to be written.

The default name RVUCARD appears on this line.

5. On the line labeled Report Definition Prefix, type the report name and press ENTER.

To generate batch parameters for a series of reports, you may use an asterisk for "wildcard" prefixing and suffixing.

For example, to generate batch parameters for all reports with names beginning with "T", enter T\* on the Report Definition Prefix line. For all reports with names ending with "test", enter \*test.

You receive a message that the generation process has been started; however, you do not receive a message when the process is complete.

6. To ensure that the batch parameters were generated, examine the sequential data set where the parameters were to be written.

This section covers the following topics:

- Sample Statements

## Sample Statements

The following is an example of the batch statements generated by the GENCARD command for a sample report:

```
INPUT  FILETYPE=SEQUENTIAL,
        BUFFERS-4K=124,
        BUFFERS-32K=15,
        FILES=1,
        REVIEW-COMMANDS=NO
REPORT TYPE=SUMMARY,
        TITLE='GENERATE EXAMPLE',
        PROGRAM=RD-00055,
        RESTART=Y,
        HISTORY-INTERVAL=15,
        MAXSTORE=8
DISPLAY SEQUENCE ,CMD ,RSP ,TPUSERID ,NATAPPL ,NATPROG
SUM      IOS ,CMDRESP ,ADADURA
AVERAGE IOS ,CMDRESP ,ADADURA
PERCENT  IOS ,CMDRESP ,ADADURA
INCLUDE  RSP-( 0 , 3 , 17 , 148 ) ,JOBNAME=( JOB1* -JOB3* )
COPY     FILETYPE=ADABAS ,HUB=221 ,FNR=002 ,SVC=237
LOG      DSN=RVLOG,
        EXIT=LOGEX1,
        LOGIO=YES
```

Statement	Generated using information. . .
INPUT	about the target database from the List Target function (LT).
REPORT	from several sources: the report TYPE, TITLE, and PROGRAM from the List Report (LR) function; the other parameters from the Report Options screen of the Edit Report (ER) function.
DISPLAY	about the control break fields for summary reports or the data fields to be printed for detailed reports from the Edit Report and Report Options screens of the Edit Report (ER) function.
SUM AVERAGE PERCENT	about data fields from the Edit Report screen of the Edit Report (ER) function.
INCLUDE	from the Report Processing Rules screen of the Edit Report (ER) function.
COPY	from the history parameters of the Report Options screen.
LOG	from the logging parameters of the Report Options screen.

For a more detailed description of these statements, refer to the section *Using Batch Report Statements*.

## Using Batch Report Statements

This section describes the syntax to be used if you are entering the batch statements manually or are making changes to statements generated by the GENCARD command.

Here is a summary table of the batch statements used by the Adabas Review processor. For information about the data fields used with the statements, refer to the *Field Reference*.

Statement	Use
AVERAGE	Specifies the data fields for calculating average values in summary reports.
COPY	Copies input detail records or summary data records to a sequential data set or the Adabas Review repository.
COST	Specifies the factors to be used in resource cost calculations for summary records.
DISPLAY	Defines the control break fields for summary reports, and specifies the data fields to be printed for detailed reports.
ENV	Specifies a numerical factor for adjusting values returned in the CMDRESP field.
ENVIRONMENT	Allows the user to specify CPU-ID and database ID. This information is included in output generated by a COPY statement for a report.
EXCLUDE	Defines specific input detail records to be excluded from processing for both summary and detailed reports.
INCLUDE	Defines specific input detail records to be included in processing for both summary and detailed reports.
INPUT	Defines the input data to be processed by the Adabas Review processor and optional output logging parameters.
LOG	Specifies how Adabas Review performs physical command logging.
MINIMUM	Specifies the data fields for which minimum values will be printed on summary reports.
MAXIMUM	Specifies the data fields for which maximum values are to be printed on summary reports.
PERCENT	Specifies the data fields for which percentage is to be calculated for summary reports.
RATE	Specifies the data fields for which rate is to be calculated for summary reports.
REPORT	Defines the type of report to be generated along with the report format and title lines.
ROUND	Specifies the data fields for which rounding is to occur.
SUM	Specifies the data fields for which total values will be produced on summary reports.

## Parameter Statement Syntax

A parameter statement consists of a statement name followed by at least one blank and one or more optional (positional or keyword) parameters separated by commas:

```
statement name parm1, parm2, parm3 ,...
```

The following syntax rules pertain to parameter statements:

- Statements may be entered in positions 1-71.
- At least one blank must separate the statement name and the first parameter.
- Multiple parameters must be separated by commas.
- Blanks are not permitted within a parameter entry, except when enclosed within apostrophes.
- A statement with multiple parameters may be continued by ending the line with a comma followed by a blank, and entering the next parameter on the next line beginning in any position between 1-71.
- Comment lines may be inserted by entering an asterisk in position 1. Comment lines may also be inserted following the blank that ends the statement.
- Positional Parameters
- Keyword Parameters

### Positional Parameters

Positional parameters specify the data fields to be summarized and/or displayed as part of the Adabas Review report.

A positional parameter is a single value, usually an Adabas command log field name. Refer to the *Field Reference* for information about individual data fields.

### Keyword Parameters

Keyword parameters either specify input record selection criteria or define specific parameter statement options. A keyword parameter consists of a keyword name, a keyword separator, and a parameter value.

Keyword names vary depending on the particular parameter statement. Field names referencing Adabas data fields are used as keyword names when specifying input record selection criteria. When defining a specific parameter statement option, specific keyword reserved words are used as keyword names.

Valid keyword separators include:

=, <, >, and ~

These relational symbols (equal to, less than, greater than, and not equal to, respectively) are used to define selection criteria for Adabas Review report processing.

Parameter values are numeric, alphanumeric, or hexadecimal in format. Note that a hexadecimal value must be enclosed in apostrophes and be preceded by an "X". A list of values is identified by enclosing the list in parentheses with the values separated by commas. For a range of values, a hyphen is used to separate the low and high values of the range.

### AVERAGE Statement

```
AVERAGE field-name, field-name,...
```

The AVERAGE statement specifies the data fields for which average values are to be calculated for an Adabas Review summary report.

The AVERAGE statement is applicable to summary reports only. Average values are calculated only for the valid data fields specified in this statement. Average values are summarized and printed on the summary report at each control break defined by the parameter statement for all data fields for which average values have been calculated. Average values are printed to one more rounded decimal place than the field data being averaged.

Example:

Print average values for the Adabas command log fields ASSOIO, WORKIO, and DATAIO on the summary report.

```
AVERAGE ASSOIO,WORKIO,DATAIO
```

## COPY Statement

```
COPY FILETYPE = {SEQUENTIAL | ADABAS}
LIMIT = numeric-value
DBID = database-id
FILE = file-number
SVC = svc
```

where DBID, FILE, and SVC represent the Adabas Review repository.

The COPY statement specifies that input detail records to be copied to an Adabas file.

The keyword parameter FILETYPE specifies whether the data is to be copied to a sequential data set or to Adabas. The following functions can be performed using this statement:

- **Copy detail records to a sequential data set.**  
The user can select subsets of detailed log records and copy them to different sequential data sets. These data sets can then be used as future input to Adabas Review.
- **Copy detailed or summary data to Adabas.**  
The user can write specified information back into the Adabas Review repository where it can be viewed using either the online history functions or Adabas applications written by the user.

The physical command log may be created with less overhead for the Adabas nucleus by using this function with the Adabas Review processor running interactively.

The keyword parameter LIMIT specifies the maximum number of records to be copied. The default is to copy all records.

**Examples:**

1. Copy all input detail records satisfying the selection criteria specified on the INCLUDE statement to the sequential data set RVUCOP $nn$ , where  $nn$  is incremented sequentially beginning with 01 for the first copied file.

```
REPORT TYPE=DETAIL
INCLUDE ...
DISPLAY ...
COPY FILETYPE=SEQUENTIAL
```

2. Copy all summary data records to the Adabas Review repository.

```
REPORT TYPE=SUMMARY
DISPLAY ...
COPY FILETYPE=ADABAS,DBID=133,FILE=3
```

**COST Statement**

```
COST {field1-name arithmetic-operator cost-factor, ... | FIXED }
```

The COST statement, which is used only in summary reports, specifies the factors to be used in calculating resource costs and the data fields to which the cost factors are to be applied. The costs calculated for the specified data fields are automatically printed on the output report. If costs are calculated for more than one data field, a combined total cost column is printed as the column to the far right on the summary report. The special reserved word FIXED specifies that a fixed cost is to be applied to each input detail record.

Valid arithmetic operators are: \*, +, -, and @. The first three operators specify that the value of the designated data field is to be multiplied by the indicated cost factor (\*), that a constant factor is to be added to the value of the data field (+), or that a constant value is to be subtracted from the value of the data field (-). The remaining operator (@) is used only with FIXED to specify that a fixed cost is to be applied to each input detail record.

Cost factors can be positive or negative numeric values containing up to four decimal places. Negative values can be used only with the operators \* and @. Costs are calculated only for those data fields for which cost factors are specified.

**Examples:**

1. Calculate costs by multiplying the CMDRESP field by .0025 and multiplying the total IO count by 2.50.

```
COST CMDRESP*.0025,IO*2.50
```

2. Calculate costs by applying a fixed cost of 5.00 to each input detail record.

```
COST FIXED@5.00
```

3. Calculate costs by adding 1.5 to the value of the ASSOIO field, multiplying the DATAIO field by a negative 1.25, multiplying the WORKIO field by a positive 2.

```
COST ASSOIO+1.5,DATAIO*-1.25,WORKIO*
```

## DISPLAY Statement

```
DISPLAY field-name,field-name,...
```

The DISPLAY statement defines the control break fields for Review summary reports. Data is summarized at each control break specified in this statement for all data fields for which calculations have been performed.

One DISPLAY statement *must* be specified with at least one field for a summary report.

The DISPLAY statement is also used to specify the data fields to be printed on Review detailed reports.

### Examples:

1. Print data summarized by Adabas COMMAND within file number (FNR) within JOBNAME on the summary report.

```
DISPLAY JOBNAME,FNR,COMMAND
```

2. Print the data fields SEQUENCE, DATE, USERID, and CMDRESP on the detailed report in the order specified.

```
DISPLAY SEQUENCE,DATE,USERID,CMDRESP
```

## ENV Statement

```
ENV ENV-FACTOR = nnnnn.nnnn
```

### Note:

Adabas Review makes no claim to be able to recover or report actual CPU time.



If you are not satisfied with the values you receive in the Adabas Review CMDRESP field, you can use the ENV control statement to adjust the values.

"*nnnnn.nnnn*" is the factor to be multiplied by the value reported in the Adabas Review field CMDRESP to adjust it to the total Adabas nucleus session CPU time reported by the operating system. All digits must be specified. The default value is 1.0000; the maximum value is 99999.9999.

**▶ To implement the ENV control statement:**

1. Run your Adabas nucleus with an autostarted Review report that shows the total of all command response time for the nucleus session (CMDRESP field).
2. When the database is stopped, examine the output report and note the total CMDRESP value as reported by Adabas Review.
3. Obtain the total CPU time used by the Adabas nucleus session as reported by the operating system.
4. Compare the two values and determine the relationship between them.
5. For the next Adabas nucleus session, you can adjust the Adabas Review value to more closely approximate the operating system value by inserting the ENV control statement into the RVUAUT1/2 or RVUPARM after the INPUT statement and before the first REPORT statement.

**Examples:**

1. Review CMDRESP=100.0000; CPU time reported by the operating system=50.0000.

The ratio between the two values is 2:1 where the Adabas Review CMDRESP field value is two times the Adabas nucleus session CPU time reported by the operating system.

To adjust this for the next Adabas session, set the ENV control statement parameter ENV-FACTOR to 0.5000 so that Review divides the CMDRESP value by 2.

The RVUAUT statements may be similar to the following:

```

INPUT  FILETYPE=SEQUENTIAL,
        BUFFERS-4K=124,
        BUFFERS-32K=15,
        FILES=1,
        REVIEW-COMMANDS=YES
ENV ENV-FACTOR=0.5000
REPORT TYPE=SUMMARY,
        TITLE='TOTAL CMDRESP',
        PROGRAM=RD-00089,
        RESTART=Y,
        MAXSTORE=8
        TARGET=00nnn
DISPLAY DBNAME
SUM COMMANDS,IOS,CMDRESP

```

2. Review CMDRESP=25.0000; CPU time reported by the operating system=100.0000.

The ratio between the two values is 1:4 where the Adabas Review CMDRESP field value is one quarter of the Adabas nucleus session CPU time reported by the operating system.

To adjust this for the next Adabas session, set the ENV control statement parameter ENV-FACTOR to 4.0000 so that Review multiplies the CMDRESP value by 4.

## ENVIRONMENT Statement

```
ENVIRONMENT { CPU-ID = cpu-id | DATABASE-ID = database-id }
```

The ENVIRONMENT statement specifies the identification number of the CPU or database from which the Adabas command log originated. The ENVIRONMENT statement should only be used with the COPY statement (see *COPY Statement* for more information).

## EXCLUDE Statement

```
EXCLUDE field-name relation-symbol (value, value,...), ...
```

The EXCLUDE parameter statement defines specific input detail records that are to be excluded from processing, based on the values of specified *fields*.

### Note:

EXCLUDE parameter statements with multiple field names have different logical meanings if the field names are entered as multiple EXCLUDE statements rather than as a single continuous statement. If entered as a single statement, the Boolean operator AND is implied; if entered as multiple statements, the Boolean operator OR is implied.

*Relational symbols* specify the test that should be conducted on a field value. Input detail records are excluded if the value of the designated data field passes the test specified by the relational symbol. For example, if the specified field is equal to, less than, greater than, or not equal to the value indicated in the parameter statement, it is excluded. Valid relational symbols that can be specified are:

	Symbols	Hex Equivalent
Equal to	=	X'7E'
Less than	<	X'4C'
Greater than	>	X'6E'
Not equal to	≠	X'5F'

### Note:

The symbol for "not equal to" varies; it may be either "^" or "≠". The hexadecimal equivalent is the same on all machines.

Parameter *values* may be in numeric, alphanumeric, or hexadecimal format.

- Hexadecimal values must be enclosed in apostrophes and preceded by an "X". In addition, hexadecimal values should be padded with blanks (X'40') to ensure that every available field byte is specified. The blank padding can be specified either at the beginning or the end of the value specification. For example, to exclude all input detail records with a hexadecimal 8-byte NATAPPL field value of "ABC", enter the statement as:

```
EXCLUDE NATAPPL=(X'C1C2C34040404040')
```

- Alphanumeric fields may use an asterisk (\*) for wildcard prefixing and suffixing. For example, to exclude all job names beginning with "A" and all job names ending with "TEST", enter the statement as:

```
EXCLUDE JOBNAME=(A*,*TEST)
```

To specify a list of values, enclose the values in parentheses and separate them with commas. For example, the following specification excludes input detail records with JOBNAME field values equal to "AAAAAAA", "BBBBBBB", or "CCCCCCC":

```
EXCLUDE JOBNAME=(AAAAAAA,BBBBBBB,CCCCCCC)
```

To specify a range of values, the low and high values of the range should be separated by a hyphen. For example, the following specification excludes input detail records with NATAPPL field values in the range from "AA" through "X" or with the value "AABC":

```
EXCLUDE NATAPPL=(AA-X,AABC)
```

If one of the values itself contains a hyphen, enclose it in quotes. For example, the following specification excludes input detail records with NATAPPL field value "AA-X" or with the value "AABC":

```
EXCLUDE NATAPPL=('AA-X',AABC)
```

## Examples

1. The following example excludes input detail records from processing if the value of the SEQUENCE field is less than 100 AND the value of the JOBNAME field is equal to "AAAAAAA" or is within the range "XXXXXXXX" through "ZZZZZZZ".

```
EXCLUDE
SEQUENCE<100,JOBNAME=(AAAAAAA,XXXXXXXX-ZZZZZZZ)
```

2. The following example excludes input detail records from processing if the value of the SEQUENCE field is less than 100 OR the value of the JOBNAME field is equal to "AAAAAAAA" or is within the range "XXXXXXXX" through "ZZZZZZZZ".

```
EXCLUDE SEQUENCE<100
EXCLUDE JOBNAME=(AAAAAAAA,XXXXXXXX-ZZZZZZZZ)
```

## INCLUDE Statement

```
INCLUDE field-name relation-symbol (value, value,...), ...
```

The INCLUDE parameter statement defines specific input detail records to be included in processing, based on the values of specified *fields*. An individual field name may only be specified once in an INCLUDE statement. For example, the following INCLUDE statement is invalid because it specifies the SEQUENCE field twice:

```
INCLUDE SEQUENCE>100,SEQUENCE=3
```

### Note:

INCLUDE parameter statements with multiple field names have different logical meanings if the field names are entered as multiple INCLUDE statements rather than as a single continuous statement. If entered as a single statement, the Boolean operator AND is implied; if entered as multiple statements, the Boolean operator OR is implied.

*Relational symbols* specify the test that should be conducted on a field value. Input detail records are included if the value of the designated data field passes the test specified by the relational symbol. For example, if the specified field is equal to, less than, greater than, or not equal to the value indicated in the parameter statement, it is included. Valid relational symbols that can be specified are:

	Symbols	Hex Equivalent
Equal to	=	X'7E'
Less than	<	X'4C'
Greater than	>	X'6E'
Not equal to	¬	X'5F'

### Note:

The symbol for "not equal to" varies; it may be either "^" or "¬". The hexadecimal equivalent is the same on all machines.

Parameter *values* may be in numeric, alphanumeric, or hexadecimal format.

- Hexadecimal values must be enclosed in apostrophes and preceded by an "X". In addition, hexadecimal values should be padded with blanks (X'40') to ensure that every available field byte is specified. The blank padding can be specified either at the beginning or the end of the value

specification. For example, to include all input detail records with a hexadecimal 8-byte NATAPPL field value of "ABC", enter the statement as:

```
INCLUDE NATAPPL=(X'C1C2C34040404040')
```

- Alphanumeric fields may use an asterisk (\*) for wildcard prefixing and suffixing. For example, to include all job names beginning with "A" and all job names ending with "TEST", enter the statement as:

```
INCLUDE JOBNAME=(A*,*TEST)
```

To specify a list of values, enclose the values in parentheses and separate them with commas. For example, the following specification includes input detail records with JOBNAME field values equal to "AAAAAAAA", "BBBBBBBB", or "CCCCCCCC":

```
INCLUDE JOBNAME=(AAAAAAAA,BBBBBBBB,CCCCCCCC)
```

To specify a range of values, the low and high values of the range should be separated by a hyphen. For example, the following specification includes input detail records with NATAPPL field values in the range from "AA" through "X" or with the value "AABC":

```
INCLUDE NATAPPL=(AA-X,AABC)
```

If one of the values itself contains a hyphen, enclose it in quotes. For example, the following specification includes input detail records with NATAPPL field value "AA-X" or with the value "AABC":

```
INCLUDE NATAPPL=('AA-X',AABC)
```

## Examples

1. Include input detail records in Adabas Review processing only if the value of the SEQUENCE field is greater than 100, AND the value of the JOBNAME field is equal to "AAAAAAAA" or "ZZZZZZZZ", AND the value of the response code field (RSP) is within the range 9 through 150.

### Note:

The same field name may not be used more than once for a particular INCLUDE statement.

```
INCLUDE
SEQUENCE>100,JOBNAME=(AAAAAAAA,ZZZZZZZZ),RSP=(9-150)
```

2. Include input detail records in Adabas Review processing if the value of the SEQUENCE field is greater than 100, OR if the value of the JOBNAME field is equal to "AAAAAAAA" or "ZZZZZZZZ", OR if the value of the response code (RSP) field is within the range 9 through 150.

```

INCLUDE SEQUENCE>100
INCLUDE JOBNAME=( AAAAAAAAA,ZZZZZZZZ )
INCLUDE RSP=(9-150)

```

## INPUT Statement

```

INPUT FILETYPE = SEQUENTIAL
LIMIT = nnnn
BUFFERS-4K = nnnn, BUFFERS-32K = nnnn
FILES = nnnn
REVIEW-COMMANDS = {YES | NO}
SKIP = nnnn

```

### 1

—where FILES is used only under z/VSE.

The INPUT parameter statement defines the characteristics of the input records to be processed by the Adabas Review processor. The statement format is described in the following table:

Keyword	Specifies . . .
FILETYPE	the file type of the input records to be processed. The default and the only value currently possible is SEQUENTIAL, which implies Adabas command log record input or input from the interactive processor.
LIMIT	the maximum number of input records to be processed. The default is to process all of the input records. A value of "99999999" indicates that there is no limit.
BUFFERS-4K	the number of buffer pool entries that have a length of 4096 or less. This parameter is usually specified along with the BUFFERS-32K parameter. If this parameter is not specified, any BUFFERS-32K parameter setting is ignored. The minimum allowable specification is 124.  If the BUFFERS-4K and BUFFERS-32K parameters are not specified, the setting of the BUFFER-SEGMENTS parameter is used. If the BUFFER-SEGMENTS parameter is also not specified, a default of 124 4K buffers and 15 32K buffers is used.

Keyword	Specifies . . .
BUFFERS-32K	<p>the number of buffer pool entries that have a length of 4097 or greater. This parameter is usually specified along with the BUFFERS-4K parameter. If this parameter is not specified, any BUFFERS-4K parameter setting is ignored. The minimum allowable specification is 15.</p> <p>If the BUFFERS-4K and BUFFERS-32K parameters are not specified, the setting of the BUFFER-SEGMENTS parameter is used. If the BUFFER-SEGMENTS parameter is also not specified, a default of 124 4K buffers and 15 32K buffers is used.</p>
BUFFER-SEGMENTS	<p>the number of 512-byte segments to be obtained for the Adabas Review buffer pool when running the Adabas Review interactive processor. When a value for BUFFER-SEGMENTS is specified, the total storage indicated by the specification is split in half between 4K buffers and 32K buffers. The minimum allowable specification is 2000.</p> <p>The BUFFERS-4K and BUFFERS-32K parameters can be used as alternates to the BUFFER-SEGMENTS parameter. The BUFFER-SEGMENTS parameter is still valid, but is ignored if the BUFFERS-4K or BUFFERS-32K parameter is specified.</p> <p>If this parameter is not specified and the BUFFERS-4K and BUFFERS-32K parameters are not specified, a default of 124 4K buffers and 15 32K buffers is used.</p> <p><b>Note:</b> The BUFFER-SEGMENTS parameter is supported only for compatibility reasons. It will be removed in a future version of Adabas Review, so we recommend that you use the .BUFFERS-4K and BUFFERS-32K parameters instead.</p>
FILES	(z/VSE only) the number of input command log files to be processed.

Keyword	Specifies . . .
REVIEW-COMMANDS	<p>whether commands issued by Adabas Review should be included in the command processing for all reports.</p> <p>REVIEW-COMMANDS=NO indicates that special Adabas commands for Adabas Review (for example V4 commands) are not used for accounting and monitoring. To suppress RC commands issued from the SYSREVDB application as well, set the Natural profile ADAPRM parameter ON (ADAPRM=ON).</p> <p>REVIEW-COMMANDS=YES indicates that these commands are used for accounting and monitoring.</p> <p><b>Note:</b> Some fields might not be available for the commands supported by Adabas Review online system (V4 commands), especially when running in a hub environment. These fields include TP monitor fields, Natural fields, duration fields and buffer fields.</p>
SKIP	the number of command log records to bypass before Adabas Review begins processing.
REVLOGMAX	When the sum of sizes of the logged buffers for one command on the Adabas command log reaches the value of the REVLOGMAX parameter, the buffer exceeding the limit is truncated and all following buffers are omitted for internal processing. The minimum setting is 2000; the maximum setting is 32768, and this is also the default. If buffers are omitted, fields may not be filled.
REVLOGBMAX	<p>If a buffer is longer than this value, the logged buffer is truncated from the point at which its size exceeds the setting of the REVLOGBMAX parameter. The minimum setting is 0; the maximum setting is 30000, and the default value is 1024.</p> <p>If buffers are truncated, fields or parts of fields may not be filled.</p>

## LOG Statement

```

LOG  DSN = dd-file-name
     EXIT = exit-name
     LOGS = numeric-value
     SIZE = numeric-value
     LIMIT = numeric-value
     LOGFB = {YES | NO}
     LOGIB = {YES | NO}
     LOGIO = {YES | NO}
     LOGRB = {YES | NO}
     LOGSB = {YES | NO}
     LOGVB = {YES | NO}

```



The LOG statement determines how Adabas Review is to perform physical command logging or summary logging; i.e., what information is to be logged and where it is to be written.

The following table describes the parameters within the LOG statement:

Parameter	Specifies . . .	Valid for Report Type
DSN	the file name prefix for the file where the logs are to be written. A number is appended to this name based on the LOGS parameter. If DSN=RVLOG and LOGS=2, the command log data is written to files RVLOG01 and RVLOG02.	Detailed and Summary
EXIT	the name of the user exit to be called when a log data set is closed and before the next log data set is opened.  For complete information about the command or summary logging user exit, read <i>REVUXLOG: Command or Summary Logging User Exit</i>	Detailed and Summary
LOGS	the number of log data sets for the report.	Detailed and Summary
SIZE	the maximum number of blocks allocated to the log data set. When the SIZE parameter value is reached, the exit specified in the EXIT parameter is called, and the next log data set is opened for output.	Detailed and Summary
LIMIT	the maximum number of records for a detailed report to be logged in the command log data set. The default is to log all detail lines. A value of "99999999" indicates that there is no limit.	Detailed only
LOGFB	whether the format buffer is to be logged for command logging for detailed reports.	Detailed only
LOGIB	whether the ISN buffer is to be logged for command logging for detailed reports.	Detailed only
LOGIO	whether I/O information is to be logged for command logging for detailed reports.	Detailed only
LOGRB	whether the record buffer is to be logged for command logging for detailed reports.	Detailed only
LOGSB	whether the search buffer is to be logged for command logging for detailed reports.	Detailed only
LOGVB	whether the value buffer is to be logged for command logging for detailed reports.	Detailed only

## MAXIMUM Statement

```
MAXIMUM field-name, field-name,...
```

The MAXIMUM parameter statement applies only to Adabas Review summary reports. It specifies the data fields for which maximum values are to be printed on these reports. Maximum values are printed only for the valid data fields specified in this statement.

Maximum values are summarized and printed on the summary report at each control break defined by the DISPLAY parameter statement for all data fields for which maximum values have been determined.

### Example:

Determine maximum values for the Adabas log fields ASSOIO, WORKIO, and DATAIO and print them on the summary report.

```
MAXIMUM ASSOIO,WORKIO,DATAIO
```

## MINIMUM Statement

```
MINIMUM field-name, field-name,...
```

The MINIMUM parameter statement applies only to Adabas Review summary reports. It specifies the data fields for which minimum values are to be printed on these reports. Minimum values are printed only for the valid data fields specified in this statement.

Minimum values are summarized and printed on the summary report at each control break defined by the DISPLAY parameter statement for all data fields for which minimum values have been determined.

### Example:

Determine minimum values for the Adabas log fields ASSOIO, WORKIO, and DATAIO and print them on the summary report.

```
MINIMUM ASSOIO,WORKIO,DATAIO
```

## PERCENT Statement

```
PERCENT field-name, field-name,...
```

The PERCENT parameter statement applies only to Adabas Review summary reports. It specifies the data fields for which percentage values are to be printed on these reports. Percentage values are printed only for the valid data fields specified in this statement.

Percentage values are summarized and printed on the summary report at each control break defined by the DISPLAY parameter statement for all data fields for which percentage values have been determined.

### Example:

Determine percentage values for the Adabas log fields ASSOIO, WORKIO, and DATAIO and print them on the summary report. The sum of the percentage values for each specified data field is 100 percent.

```
PERCENT ASSOIO,WORKIO,DATAIO
```

## RATE Statement

```
RATE field-name,field-name,...
```

The RATE parameter statement applies only to Adabas Review summary reports. It specifies the data fields for which rate values are to be printed on these reports. Rate values are printed only for the valid data fields specified in this statement.

Rate values are summarized and printed on the summary report at each control break defined by the DISPLAY parameter statement for all data fields for which rate values have been determined.

### Example:

Determine rate values for the Adabas log fields ASSOIO, WORKIO, and DATAIO and print them on the summary report. The rate will be calculated as the amount of data collected per second.

```
RATE ASSOIO,WORKIO,DATAIO
```

## REPORT Statement

The REPORT statement is critical in that it indicates that all of the following statements up to the next REPORT statement define the contents of the current report.

```

REPORT TYPE = { DETAIL | SUMMARY }
[ ADALIMIT = { count | 0 } ]
[ BREAK = { YES | NO } ]
[ CLASS = { STANDARD | CLIENT } ]
[ DISPLAYBY = { SORTED | SUMFIELD | USAGE | SORTEDDE | DATETIME } ]
[ ENTRIES = { count | 999999 } ]
[ HISTORY-INTERVAL = { minutes | 0 } ]
[ LIMIT = { count | 99999999 } ]
[ { LINESIZE | WIDTH } = { count | 133 } ]
[ MAXSTORE = { kilobytes | 8 } ]
[ { PAGESIZE | PAGE-SIZE } = { count | 55 } ]
[ PRINT = { YES | NO } ]
[ PROGRAM = { pgm-name | RD-DEFLT } ]
[ REPORT-EXIT = detail-rpt-exit-name ]
[ RESTART = { YES | NO } ]
[ { SKIP | SKIPPING } = { 1 | 2 } ]
[ { SPACE | SPACING } = { count | 1 } ]
[ SUMMARY-EXIT = summary-rpt-exit-name ]
[ TARGET = { database-id | ALL } ]
[ { TITLE = " character-string " | TITLE1 = " character-string " TITLE2 = " character-string " } ]
[ WRAP = { YES | NO } ]

```

The REPORT statement defines the type of report to be generated by the Adabas Review processor. The following table describes the parameters in the REPORT statement:

Parameter	Specifies . . .	Default	Valid for Report Type
TYPE	whether the report to be generated is a detail or summary report. Valid values are DETAIL (generate a detail report) or SUMMARY (generate a summary report). This parameter must be specified; there is no default.	---	Detailed and Summary
ADALIMIT	a minimum command count (number of times the command was processed) for printing a summary report. For example, if ADALIMIT=100, only entries with a command count of 100 or higher are printed.	0	Summary only
BREAK	whether subtotals are printed at control breaks or suppressed. Valid values are YES (print subtotals) and NO (do not print subtotals).	YES	Summary only
CLASS	whether the report to be generated is a client reporting report. Valid values are "STANDARD" (the report is a standard report) and "CLIENT" (the report is a client reporting report).	STANDARD	Detailed and Summary

Parameter	Specifies . . .	Default	Valid for Report Type
DISPLAYBY	<p>the order in which the data is displayed. Valid values are:</p> <p><b>SORTED</b></p> <p>Display data in ascending order by control break.</p> <p><b>SUMFIELD</b></p> <p>Display data in descending order by the first field marked as a sum field.</p> <p><b>USAGE</b></p> <p>Display data in descending order by usage (e.g., most used to least used command).</p> <p><b>SORTEDDE</b></p> <p>Display data in descending order by control break.</p> <p><b>DATETIME</b></p> <p>Display data in ascending order by the start date and time of the control break. interval.</p>	SORTED	Summary only
ENTRIES	the maximum number of entries that a report will process, thus restricting the amount of data collected by the summary report.	999999	Summary only
HISTORY-INTERVAL	the frequency (in minutes) with which history data is written for a summary report.	0	Summary only
LIMIT	the maximum number of detail lines to be printed on the output report. The default is to print all detail lines. A value of "99999999" indicates that there is no limit.	99999999	Detailed only
{LINESIZE   WIDTH}	<p>the width of a report line. The line width can be stated as any numeric value of at least 72 characters and not greater than 989 characters.</p> <p>Use the "Line" option to supply this information in an online environment.</p>	133	Detailed and Summary

Parameter	Specifies . . .	Default	Valid for Report Type
MAXSTORE	the maximum amount of storage (in kilobytes) available for the report.  Use the "Max K" option to supply this information in an online environment.	8	Summary only
PAGESIZE	the length (in lines) of a report page. The minimum is 10 lines. The default is 55 lines, which provides a top and bottom margin for standard printer spacing on a total page size of 66 lines.	55	Detailed and Summary
PRINT	whether the report will be printed at database termination. Valid values are YES (print the report at database termination) and NO (do not print the report at database termination).	YES	Detailed and Summary
PROGRAM	the name of the display program to be used if the report results are displayed online.	RD-DEFLT	Detailed and Summary
REPORT-EXIT	the name of the report user exit that is executed whenever a command log record is selected for a detailed report. There is no default for this parameter.  For more information about these exits, read <i>REVUXDET: Report Exit for Detailed Reports</i> and <i>REVUXSUM: Report Exit for Summary Reports</i> .	no exit is called	Detailed only
RESTART	whether the report is reactivated after the history interval is reached, the report is closed, or the report MAXSTORE limit is exceeded. Valid values are YES (reactivate the report) and NO (do not reactivate the report).  Use the "Rstrt" option to supply this information in an online environment.	NO	Summary only
SKIP	whether to single-space or double-space the detail lines on the output report. The default is to single-space the detail lines. Valid values are 1 (single-space the output report) and 2 (double-space the output report).	1	Detailed and Summary

Parameter	Specifies . . .	Default	Valid for Report Type
SPACE	the number of spaces to allow between the data fields printed on the output report. This factor applies to all data fields on detailed reports but only to the fields defined as control breaks by the DISPLAY parameter statement on summary reports. The default is to allow one space between data fields.	1	Detailed and Summary
SUMMARY-EXIT	the name of the report user exit that is executed whenever an Adabas command or a summary record is selected for a summary report. Read <i>Report Exits</i> in <i>Specifying Reporting Options</i> for more information. There is no default for this parameter.	no exit is called	Summary only

Parameter	Specifies . . .	Default	Valid for Report Type
TARGET	<p>the database from which the report collects data. If this parameter is missing, invalid, or zero, the report is ignored and will not be started.</p> <p>You can specify "ALL" as a valid value to trigger a DBID=ALL report. DBID=ALL reports can only be triggered when running Adabas Review in hub mode. They are reports that are started for all databases running on the same SVC as the hub. You can specify "ALL" for user-defined reports and for most of the predefined Adabas Review reports except for the Buffer Pool reports, the Pulse reports, and the Cluster Services reports.</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. Depending on your environment, a DBID=ALL report may initiate communications with many databases, all of which will then send data for the report. If too many databases send too much data at the same time, hub performance problems may result. In such cases, you might consider excluding specific databases from the DBID=ALL report. To do so, define a report processing rule that does not include (INCLUDE statement or EQ) some databases.</li> <li>2. Once DBID=ALL reports are started, we do not recommend that you use the REVIEW=<i>hubid</i> operator command to alter the hub ID of an active database. If you do, unpredictable results will occur in the processing of the DBID=ALL reports that have been started.</li> </ol>	0	Detailed and Summary
TITLE	the title line for the report when only one line is used. A maximum of 60 characters is allowed. The default value is blanks.	blanks	Detailed and Summary
TITLE1 TITLE2	the title lines for the report when more than one line is used. A maximum of 60 characters is allowed for each title line. The default value is blanks.	blanks	Detailed and Summary



Parameter	Specifies . . .	Default	Valid for Report Type
WRAP	whether wrapping (i.e., reusing data elements for the report) will occur. Valid values are YES (wrapping should occur) and NO (wrapping should not occur).  Use the "Wrapping" option to supply this information in an online environment.	NO	Summary only

**Example:**

Define a summary report with the title "A Report with Exit" to collect data from database 12345. The display program RD-00001 is to be used if the report results are displayed online. The maximum storage limit for the report will be 16 kilobytes and the report will be automatically reactivated when the maximum storage limit is exceeded. The user-written exit MYEXIT will be called whenever a command log record is selected for the report.

```
REPORT TYPE=SUMMARY,TITLE='A REPORT WITH
EXIT',
PROGRAM=RD-00001,TARGET=12345,RESTART=Y,
REPORT-EXIT=MYEXIT,MAXSTORE=16
```

See the section *Parameter Statement Processing* for another example.

**ROUND Statement**

```
ROUND field-name = name
```

The ROUND parameter statement applies only to Adabas Review summary reports. It specifies the data fields for which rounding is to occur on these reports. The fields specified on the ROUND statement must also be specified on the DISPLAY statement.

**Example:**

Round the Adabas DURATION field up to .05 of a second.

```
ROUND DURATION=.05
```

**SUM Statement**

```
SUM field-name, field-name, ...
```

The SUM parameter statement applies only to Adabas Review summary reports. It specifies the data fields for which value totals are to be calculated on these reports. Values are printed on the summary report at each control break defined by the DISPLAY parameter statement for all data fields that have been summed.

### Example:

Print the summed values for the DURATION field, Associator IOs, Data Storage IOs, and Work IOs on the summary report.

```
SUM      DURATION, ASSOIO, DATAIO, WORKIO
```

## Parameter Statement Processing

This section discusses the processing order of Adabas Review parameter statements and the effect of that order on the contents of detailed and summary reports.

- Defining Reports
- Multiple Parameter Statements
- INCLUDE/EXCLUDE Statements

### Defining Reports

The most critical parameter statement is the REPORT statement. It indicates that all of the following statements up to the next REPORT statement define the contents of the current report.

### Example:

```
REPORT   TYPE=DETAIL
INCLUDE  ...
DISPLAY  ...
```

```
REPORT   TYPE=SUMMARY
EXCLUDE  ...
DISPLAY  ...
AVERAGE  ...
SUM      ...
```

```
REPORT   TYPE=DETAIL
DISPLAY  ...
```

There are three distinct reports: the first and third reports are detailed reports; the second report is a summary report. Each report includes/excludes different input records; different statistics are compiled and printed for each report.

## Multiple Parameter Statements

A parameter statement containing multiple parameter entries can be entered as one continuous statement or as several statements, each containing one or more parameter entries. For all parameter statements except the INCLUDE, EXCLUDE, and DISPLAY statements, either method will produce the same results.

### Examples:

1. Print the sum for the values in the data fields COMMANDS, ASSOIO, and DATAIO on the report.

```
SUM    COMMANDS, ASSOIO, DATAIO
```

2. Example 2 produces the same results as example 1:

```
SUM    COMMANDS
SUM    ASSOIO
SUM    DATAIO
```

## INCLUDE/EXCLUDE Statements

INCLUDE/EXCLUDE parameter statements with multiple parameters have different logical meanings based on whether the parameters are entered as separate statements or as a single continuous statement.

### Examples:

1. In this example, logical AND is implied between the SEQUENCE parameter and JOBNAME and RSP parameters. Input detail records must satisfy *all* three conditions in order to be selected for processing:

```
INCLUDE
SEQUENCE>100, JOBNAME=AAAAAAAA, RSP<150
```

2. In this example, logical OR is implied between each INCLUDE statement. Input detail records meet the selection criteria by satisfying *any* of the three conditions specified in the statements:

```
INCLUDE SEQUENCE>100
INCLUDE JOBNAME=AAAAAAAA
INCLUDE RSP<150
```

3. In this example, logical AND is implied between the SEQUENCE parameter and the JOBNAME and DATE parameters entered on the first INCLUDE statement. Input detail records must satisfy *all* three conditions in order to be selected for processing. No further checking is done on the records satisfying these conditions; they are included in the processing regardless of whether they satisfy the conditions set by the remaining parameter statements:

```
INCLUDE  
SEQUENCE>100 ,JOBNAME=AAAAA ,DATE<90201  
EXCLUDE RSP>0  
INCLUDE MONTH=12 ,DAY>15  
EXCLUDE FNR<101
```

**Note:**

It is not possible to use a field (parameter) more than once in a single INCLUDE statement; that is, in a logical AND operation.

Input detail records that do not satisfy the conditions specified on the first INCLUDE statement are checked against the selection criteria specified on the next EXCLUDE statement. All records satisfying this condition (i.e., RSP>0) are excluded from processing and no further checking is done on these records.

The detail records that have not been specifically included or excluded from processing by the first two parameter statements are checked against the selection criteria specified on the next INCLUDE statement. Again, logical AND is implied between the MONTH and DAY parameters entered on this statement, and both conditions must be met in order for records to be selected for processing. No further checking is performed on the records satisfying these conditions; they are included in the processing regardless of whether they satisfy the conditions set by the final EXCLUDE statement. The remaining input detail records are then checked against the final EXCLUDE statement. All records satisfying the specified condition (i.e., FNR<101) are excluded from processing.

Note that all records not excluded by the final EXCLUDE statement are included in the processing. If the final statement is an INCLUDE statement, all records satisfying the specified conditions for inclusion are included in the processing.


## Batch Processor Job Control Requirements

This section covers the following topics:

- For z/OS Environments
- For z/VSE Environments
- For BS2000 Environments

### For z/OS Environments

The job shown below is contained in member REVIEWB of the Adabas Review source library and can be used to execute the Adabas Review processor in batch.

 **To modify the job before submitting it:**

1. Change *vrs* to the current version, revision, and system maintenance level of the product.
2. Modify the job statement, if necessary.

3. Modify the DD statement for RVUSEQ as necessary. Point to a command log file generated by Adabas or Adabas Review.
4. Add any additional RVUPRT $xx$  or RVUCOP $xx$  DD statements as necessary depending on your report definitions (where  $xx$  is a value from "01" through "99").

```
//REVIEWB JOB
(LOCATION), 'REVIEW',MSGCLASS=X,CLASS=A
//*
//REVIEWB EXEC PGM=REVIEWB,REGION=512K
//STEPLIB DD DISP=SHR,DSN=REVIEW.Vvrs.LOAD
// DD DSN=SHR,DSN=ADABAS.Vv.LOAD
//*
//RVUSEQ DD DSN=SHR,DSN=ADABAS.COMMAND.LOG.FILE.
// DCB=(RECFM=VB,BLKSIZE=10000)
//RVUFLD DD DSN=SHR,DSN=REVIEW.Vvrs.SOURCE(RVUFLD)
//*
//RVUPRT00 DD SYSOUT=X,LRECL=80
//RVUPRT01 DD SYSOUT=X,LRECL=133
//RVUPRT02 DD SYSOUT=X,LRECL=133
//SYSUDUMP DD SYSOUT=X
//TRACEOUT DD SYSOUT=X,LRECL=133
//*
//RVUPARM DD *
INPUT FILETYPE=SEQUENTIAL,LIMIT=1000
*
REPORT TYPE=SUMMARY,TITLE='SAMPLE REPORT'
AVERAGE DURATION,ASSO-IO,DATA-IO,CMDRESP
MINIMUM DURATION,ASSO-IO,DATA-IO,CMDRESP
MAXIMUM DURATION,ASSO-IO,DATA-IO,CMDRESP
DISPLAY JOB
*
/*
```

The following DD statements are required, or optional where noted, for executing the Adabas Review processor in interactive or batch mode:

DD Statement	Description
RVUPARM	<p>A data set of control statements that specify input report parameters (LRECL=80).</p> <p>RVUPARM is a data set of control statements that specify input report parameters to Adabas Review's batch processor. These statements can be generated by the GENCARD command and copied from the resulting RVUCARD output into the RVUPARM data set. For more information, read <i>Generating Batch Report Parameters</i>.</p>
RVUSEQ	<p>Sequential data set containing command log records: RECFM=VB,LRECL=9996,BLKSIZE=10000</p> <p>This command log file can be generated directly by Adabas (LOGGING=YES) or by using Adabas Review's physical logging facility as described in <i>Logging Options</i>, elsewhere in this guide.</p>
RVUCOPxx	(Optional) Copied output logs; same format as RVUSEQ (where "xx" is 01-99).
RVUPRTxx	Review logical printers (where "xx" is 01-99). LRECL is required. It may be in the range of (72-4080); LRECL=133 is typical.
RVUALT	<p>Alternate sequential file used to save history information if the Adabas Review processor, either interactively or in batch, receives an Adabas response code 148 (Adabas not active) when attempting to save history data. This file should be allocated using the following DCB attributes: RECFM=VB,LRECL=9996,BLKSIZE=10000</p>
RVUAUT1	(Optional in batch mode) Parameter statements for autostarted reports; LRECL=80.
RVUAUT2	<p>(Optional in batch mode) Parameter statements for autostarted reports; LRECL=80.</p> <p><b>Note:</b> Adabas Review uses two parameter files for the report definition control statements and alternates between them by writing to the older file. See the section Autostarted Reports on page .</p>
RVUFLD	Parameter statements; LRECL=80. Parameters to describe user-defined fields.

**Note:**

Command log files generated by Adabas must be in sequential (DDLOG) format. You **must not** use a dual command log file directly as input to Adabas Review. If you are using Adabas dual command logging, the command log file must first be copied out to a sequential file using the Adabas utility ADARES function CLCOPY.

## For z/VSE Environments

The job shown below is contained in member REVIEWB of the Adabas Review source library and can be used to execute the Adabas Review processor in batch.

### ► To modify the job before submitting it:

1. Change "vrs" to the current version, revision, and system maintenance level of the product.
2. Modify the job statements, if necessary.
3. Modify the job control statement for RVUSEQ as necessary. Point to one of the command log files.
4. Add any additional RVUPRTxx or RVUCOPxx job control statements as necessary, depending on your report definitions (where "xx" is a value 01 through 99).

```
// JOB REVIEWB                               sample
Review job
// EXEC PROC=REVvrs                           Review private libraries
// ASSGN SYS005,SYSIPT                         RVUPARM - statements
// ASSGN SYS006,DISK,VOL=VVVVVV,SHR           RVUSEQ - tape
// ASSGN SYS007,IGN                           MAY be IGN for batch
// ASSGN SYS020,PRINTER                       RVUPRT0 - printer
// ASSGN SYS021,CUU                           RVUPRT1 - printer
// DLBL RVUSEQ, 'ADABAS.Vvr.COMMAND.LOG'      RVUSEQ - command
log
// EXTENT SYS006,VVVVVV
// EXEC REVIEWB,SIZE=(AUTO,64K)
INPUT FILETYPE=SEQUENTIAL,LIMIT=1000
REPORT TYPE=SUMMARY,TITLE='SAMPLE REPORT'
AVERAGE DURATION
MINIMUM DURATION,ASSO-IO,DATA-IO,CMDRESP
MAXIMUM DURATION,ASSO-IO,DATA-IO,CMDRESP
DISPLAY JOB
/*
```

### Note:

The logical units shown in the example above may be reassigned if there are conflicts with your site-specific logical units. Refer to the *Adabas Review z/VSE Installation Guide* documentation for more information.

The following job control statements are required, or optional where noted, for executing the Adabas Review processor in interactive mode or batch mode:

Job Control Statement	Logical Unit(s)	Description
RVUPARM	SYS005	Parameter statements; 80-byte records.  RVUPARM is a data set of control statements that specify input report parameters to Adabas Review's batch processor. These statements can be generated by the GENCARD command and copied from the resulting RVUCARD output into the RVUPARM data set. For more information, read <i>Generating Batch Report Parameters</i> .
RVUSEQ	SYS006	Sequential data set containing command log records: Record Format = VB, Record Length = 9996, Block Size = 10000.  This command log file can be generated directly by Adabas (LOGGING=YES) or by using Adabas Review's physical logging facility as described in section <i>Logging Options</i> , elsewhere in this guide.
RVUCOPx	SYS031-39	(Optional) Copies output logs; same format as RVUSEQ (where "x" is 1-9).
RVUPRTx	SYS020-29	Review logical printers (where "x" is 0-9).
RVUALT	SYSxxx*	Alternate sequential file used to save history information if the Adabas Review processor, either interactively or in batch, receives an Adabas response code 148 (Adabas not active) when attempting to save history data. This file should be allocated using the job DBFILES in the Adabas Review source library. * May be any unused value.
RVUAUT1 / RVUAUT2	SYS007	(Optional in batch mode) Parameter statements for autostarted reports. Adabas Review uses two parameter files for the report definition control statements and alternates between them by writing to the older file.  <b>Note:</b> SYS007 may be assigned to IGN when running Adabas Review in batch mode.



**Note:**

Command log files generated by Adabas must be in sequential (DDLOG) format. You **must not** use a dual command log file directly as input to Adabas Review. If you are using Adabas dual command logging, the command log file must first be copied out to a sequential file using the Adabas utility ADARES function CLCOPY.

**For BS2000 Environments**

The job shown below is contained in member P.REVBATCH of the Adabas Review source library and can be used to execute the Adabas Review processor in batch.

 **Modify the job before submitting it, as described in the following steps:**

1. Set &ADAL to the Adabas Library.
2. Set &BATCH to the output file prefix.
3. Set &CLOG to the command log generated by Adabas or Adabas Review.
4. Set &LIC to the Software AG product license required for Adabas and Adabas Review.
5. Set &REVL to the Adabas Review Library.
6. Modify the parameters following the /STA-PROG EDT statements to those required for the job.

```

/BEGIN-PROC C,PROC-PAR=( -
/ &ADAL=$SAG.ADABAS.MOD,-
/ &BATCH=BATCH,-
/ &CLOG=$SAG.DB00099.CLOGR1,-
/ &DB=00099,-
/ &DUMP=YES,-
/ &LIC=$SAG.ADABAS.LICENSE,-
/ &REVL=$SAG.REVIEW.MOD -
/ ),ESC-CHAR='&'
/REMARK
/REMARK          *****
/REMARK          *      START REVIEW BATCH      *
/REMARK          *****
/REMARK
/MOD-TEST          DUMP=&DUMP
/DEL-F #RVUPARM
/SET-JOB-STEP
/CRE-FILE #RVUPARM ,PUB()
/SE-FILE-LINK EDTSAM ,#RVUPARM ,REC-FORM=F, REC-SIZE=80
/MOD-J-SW ON=( 4,5)
/ASS-SYSDTA *SYSCMD
/STA-PROG EDT
INPUT FILETYPE=SEQUENTIAL,LIMIT=1000
REPORT TYPE=SUMMARY,TITLE='SAMPLE REPORT'
AVERAGE DURATION,ASSO-IO,DATA-IO,CMDRESP
MINIMUM DURATION,ASSO-IO,DATA-IO,CMDRESP
MAXIMUM DURATION,ASSO-IO,DATA-IO,CMDRESP
DISPLAY JOB
@W '#RVUPARM' O
@H
/SET-JOB-STEP
/MOD-J-SW OFF=( 4,5)
/SET-JOB-STEP

```

```

/DEL-F &BATCH..RVUPRT00
/SET-JOB-STEP
/CRE-FILE &BATCH..RVUPRT00 ,PUB()
/SE-FILE-LINK EDTSAM ,&BATCH..RVUPRT00 ,REC-FORM=F, REC-SIZE=80
/MOD-J-SW ON=(4,5)
/ASS-SYSDTA *SYSCMD
/STA-PROG EDT
*
@W '&BATCH..RVUPRT00' O
@H
/SET-JOB-STEP
/MOD-J-SW OFF=(4,5)
/SET-JOB-STEP
/DEL-F &BATCH..RVUPRT01
/SET-JOB-STEP
/CRE-FILE &BATCH..RVUPRT01 ,PUB()
/SE-FILE-LINK EDTSAM ,&BATCH..RVUPRT01 ,REC-FORM=F, REC-SIZE=160
/MOD-J-SW ON=(4,5)
/ASS-SYSDTA *SYSCMD
/STA-PROG EDT
*
@W '&BATCH..RVUPRT01' O
@H
/SET-JOB-STEP
/MOD-J-SW OFF=(4,5)
/SET-JOB-STEP
/DEL-F &BATCH..RVUPRT02
/SET-JOB-STEP
/CRE-FILE &BATCH..RVUPRT01 ,PUB()
/SE-FILE-LINK EDTSAM ,&BATCH..RVUPRT01 ,REC-FORM=F, REC-SIZE=160
/MOD-J-SW ON=(4,5)
/ASS-SYSDTA *SYSCMD
/STA-PROG EDT
*
@W '&BATCH..RVUPRT02' O
@H
/SET-JOB-STEP
/MOD-J-SW OFF=(4,5)
/SET-JOB-STEP
*
/DEL-F #RVUFLD
/SET-JOB-STEP
/CRE-FILE #RVUFLD ,PUB()
/SE-FILE-LINK EDTSAM ,#RVUFLD ,REC-FORM=F, REC-SIZE=80
/MOD-J-SW ON=(4,5)
/ASS-SYSDTA *SYSCMD
/STA-PROG EDT
*****
NAME=USERFLD1
  LEN=1
  INTYPE=B
  OUTTYPE=H
  OFFSET=16
  DISPLEN=2
  HEADER=BUFFTYPE
  CALC=N
NAME=USERFLD2
  LEN=1
  INTYPE=B
  OUTTYPE=H
  OFFSET=18
  DISPLEN=2

```

```

        HEADER=CMDTYPE
        CALC=N
NAME=USERFLD3
        LEN=4
        INTYPE=C
        OUTTYPE=C
        OFFSET=136
        DISPLEN=4
        HEADER=ADD2CHAR
        CALC=N
@W '#RVUFLD' O
@H
/SET-JOB-STEP
/MOD-J-SW OFF=(4,5)
/SET-JOB-STEP
/ASS-SYSLST L.REV&DB..BAT.L
/REMA ASS-SYSOUT L.REV&DB..BAT.O
/ASS-SYSDTA *SYSCMD
/SE-F-LI      RVUAUT1,*DUMMY
/SE-F-LI      RVUAUT2,*DUMMY
/SE-F-LI      RVUPRT00,&BATCH..RVUPRT00
/SE-F-LI      RVUPRT01,&BATCH..RVUPRT01
/SE-F-LI      RVUPRT02,&BATCH..RVUPRT02
/SE-F-LI      RVUSEQ,&CLOG
/SE-F-LI      RVUPARM,#RVUPARM
/SE-F-LI      RVUFLD,#RVUFLD
/REMA
/SE-F-LI      DDLIC,&LIC
/SE-F-LI      DDLIB,&ADAL
/SE-F-LI      REVLIB,&REVL
/SE-F-LI      BLSLIB00,&REVL
/SE-F-LI      BLSLIB01,&ADAL
/SET-JOB-STEP
/STA-PROGRAM (&REVL,REVBATCH),PR-MO=A,RUN-M=ADV(A-L=YES)
/REMA SET-JOB-STEP
/ASS-SYSLST *PRIM
/REMA ASS-SYSOUT *PRIM
/ASS-SYSDTA *PRIM
/END-PROC

```

The following link statements are required (or are optional where noted), for executing the Adabas Review processor in interactive or batch mode:

Link Statement	Description
RVUPARM	Parameter statements; REC-FORM=FIXED(REC-SIZE=80).  RVUPARM is a data set of control statements that specify input report parameters to Adabas Review's batch processor. These statements can be generated by the GENCARD command and copied from the resulting RVUCARD output into the RVUPARM data set. For more information, read <i>Generating Batch Report Parameters</i> .
RVUSEQ	Sequential data set containing command log records.  This command log file can be generated directly by Adabas (LOGGING=YES) or by using Adabas Review's physical logging facility as described in section <i>Logging Options</i> , elsewhere in this guide.
RVUCOPxx	(Optional) Copied output logs; same format as RVUSEQ (where xx is 01-99).
RVUPRTxx	Review logical printers (where xx is 01-99). Sequential file with REC-FORM=FIXED(REC-SIZE=133).
RVUALT	Alternate sequential file used to save history information if the Adabas Review processor, either interactively or in batch, receives an Adabas response code 148 (Adabas not active) when attempting to save history data.
RVUAUT1	(Optional in batch mode) Parameter statements for autostarted reports; REC-FORM=FIXED(REC-SIZE=80).
RVUAUT2	(Optional in batch mode) Parameter statements for autostarted reports; REC-FORM=FIXED(REC-SIZE=80).

**Notes:**

1. Adabas Review uses two parameter files for the report definition control statements and alternates between them by writing to the older file. See the section Autostarted Reports. RVUFLD Parameter statements; REC-FORM=FIXED(REC-SIZE=80). Parameters to describe user-defined fields.
2. Command log files generated by Adabas must be in sequential (DDLOG) format. You **must not** use a dual command log file directly as input to Adabas Review. If you are using Adabas dual command logging, the command log file must first be copied out to a sequential file using the Adabas utility ADARES function CLCOPY.