

# Managing Report Output

This chapter describes the commands you can use to process the results of started reports. It covers the following topics:

- Viewing Report Results
  - Scrolling Through Report Results in Redisplay Mode
  - Sorting Report Results
  - Printing Report Results
  - Downloading Report Output
  - Purging Accumulated Data
- 

## Viewing Report Results

The VW command enables you to view the data accumulated by a history report or a report that has been started. The command may be issued from any of the list function screens (LR, LS, and LH).

When you issue the VW command, the display program associated with the report is executed, and the collected data is displayed online.

### To view report results from the report list screen:

- Enter the command VW on the selection line preceding the name of a history report or a report that has been started.

The results of the report appear. An example of report results available using the VW command is shown in the Thread Activity screen below:

```

19:57:10                APPLICATION FILE FIELD USAGE                2009-06-18
                        19:56:36 2009-06-18 Thru 19:56:43 2009-06-18      HUB=15690
                                                                Page:    1

```

NAT-Appl	File	Fld-Name	Total Num-of-IOs	Total Commands	Total Cmd-Resp
		0	0	1	0.001920
		50	0	3	0.387072
		50 OA	0	3	0.387072
		50 OB	0	3	0.387072
		50 OC	0	3	0.387072
		50 OD	0	3	0.387072
		50 OG	0	3	0.387072
		50 OH	0	3	0.387072
		50 OI	0	3	0.387072
		50 OJ	0	3	0.387072
		50 OK	0	3	0.387072
		50 OL	0	3	0.387072
		50 OI	0	3	0.387072

```

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

```

You can scroll forward through the report using the PF8 key. For information on scrolling backwards and forwards through the report data, read *Scrolling Through Report Results in Redisplay Mode*

**Note:**

Restrictions apply to the commands that may be issued while viewing reports. For more information, refer to the *Command Reference*.

- Viewing Wide Reports
- Viewing Multiple Reports

**Viewing Wide Reports**

When reports have more columns than will fit on a screen, PF10 and PF11 may be used to scroll the display to the left or right. When available, these keys are marked with left and right arrows. PF10 scrolls the display to the left, and PF11 scrolls the display to the right. The first column is repeated on each screen.

**Viewing Multiple Reports**

You can view more than one report. More than one VW command can be entered at a time on the Report Definitions or Started Reports screens. The reports are opened in the order they appear on the report list screen. You can only view them one at a time; the first report must be closed before the next one can be viewed.

**Note:**

You cannot view multiple history reports. In other words, you cannot issue more than one VW command on the History Reports (LH) screen.

▶ **To view multiple report results from the report list screen:**

1. Enter the command VW on the selection line preceding the name of more than one report that has been started.

The results of the first report appear.

You can scroll forward through the report using the PF8 key. For information on scrolling backwards and forwards through the report data, read *Scrolling Through Report Results in Redisplay Mode*

2. When you have finished viewing the results of the first report, press PF3 to close it.

The results of the second report you selected for viewing appear.

3. Repeat Step 2 until all reports have been viewed and closed.

## Scrolling Through Report Results in Redisplay Mode

When you view report data that spans multiple screens, you can normally only scroll forward through the data. If you need to scroll both backwards and forwards through the data, you must enter *redisplay* mode.

In redisplay mode, a copy of the most recently-collected data is displayed and is not refreshed until you leave redisplay mode. However, while you are in redisplay mode, Adabas Review continues to collect and summarize data, depending on the report definition and the frequency at which the data for the report changes. So it is possible that the report data you observe in redisplay mode may not match the data you see when you leave redisplay mode.

**Note:**

After displaying 5000 lines, redisplay mode is disabled for this view.

▶ **To enter redisplay mode and scroll backward and forward through your report data:**

1. While viewing the report, click PF7 to enter redisplay mode.

The colors of the report on the screen change.

2. Use the PF7 and PF8 keys to scroll forward and backward through the report data in redisplay mode.

▶ **To leave redisplay mode:**

1. Press PF3 to end redisplay mode.

Redisplay mode ends and the next screen of the report (the screen after the one from which you originally entered redisplay mode) appears. If you were on the last screen of the report when you entered redisplay mode, the first screen of the report appears.

## Sorting Report Results

The VIEW command has within it a SORT command that enables you 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 . . .	Display Option
Account (Ascend)	ascending order by control break	SORTED
Number of Commands	descending order by the "Number of Commands"	USAGE
First Summary Field	descending order by the first field designated as a summary field in the report definition	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  <b>Note:</b> This setting is not available in batch mode.	LINEAR

This section covers the following topics:

- Using the SORT Command
- Examples of Sort Options

## Using the SORT Command

### To issue the SORT command:

1. Enter the VW command on the selection line preceding the name of a started report.
2. From the display of the report results, press PF2 or enter SORT on the command line.

A window is displayed, listing the sort options. The option preceded by an arrow (>) is the current sorting sequence report option.

3. Change the sort option by placing the cursor on your selection and pressing ENTER.

The order of the data in the display is changed according to the sort option you selected.

## Examples of Sort Options

The "Sample Sort Displays" report example illustrates the differences in data presentation that occur when the SORT command is used with the VIEW command. This example collects and calculates the following statistics on Adabas commands:

Field	Statistic	Designated as the ...
15M	15 minute interval in which the command was issued	first control break
CMD	command code	second control break
CMDRESP	total response time for the command	first summary field
IOS	total number of I/Os issued by the command	second summary field
COMMANDS	total number of commands	third summary field
CMDRESP	average response time used per command	—
IOS	average number of I/Os issued per command	—

```

20:02:18                A D A B A S  -  R E V I E W                2009-06-18
                        Edit Report                                HUB=15690

Detail/Summary: S
Report Name: SAMPLE SORT DISPLAYS_____ DBID to Monitor: _____

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
!  Field      Order   Sum    Min    Max    Avg    Pct    Rate   Round  !
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
! 15M_____ _10    -      -      -      -      -      -      -      !
! CMD_____ _20    -      -      -      -      -      -      -      !
! CMDRESP_   -      X      -      -      X      -      -      -      !
! IOS_____ -      X      -      -      X      -      -      -      !
! COMMANDS  -      X      -      -      -      -      -      -      !
! _____ -      -      -      -      -      -      -      -      !
! _____ -      -      -      -      -      -      -      -      !
! _____ -      -      -      -      -      -      -      -      !
! _____ -      -      -      -      -      -      -      -      !
! _____ -      -      -      -      -      -      -      -      !
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
                        Page 1

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Optns Exit          Save  Start  -      +          Rules Flds  Menu
    
```

- The Account (Ascend) Option
- The Number of Commands Option
- The First Summary Field Option
- The Account (Descend) Option
- The Date and Time Option
- The Physical Sequence Option

**The Account (Ascend) Option**

Using the "Account (Ascend)" sort option (equivalent to setting the Display By parameter to "SORTED"), the results of the "Sample Sort Displays" report are displayed as follows:

```

20:16:51                SAMPLE SORT DISPLAYS                2009-06-18
                20:02:01 2009-06-18 Thru 20:15:47 2009-06-18                HUB=15690
                                                                Page:    1
Time  Cmd      Total      Total      Total      Avg
      Cmd-Resp  Num-of-IOs  Commands  Cmd-Resp
-----
20:00 RC          0.005760          0          3          0.001920
      S1          0.774144          0          6          0.129024
***** ***          0.779904          0          9          0.086656
20:15 L3          0.838656          0         12          0.069888
      RC          0.003840          0          2          0.001920
      S1          0.774144          0          6          0.129024
***** ***          1.616640          0         20          0.080832
***** ***          2.396544          0         29          0.082639

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

REV00245 - PF-KEY NOT DEFINED
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Sort  Exit          --          +          ==>  Menu
    
```

Data is grouped in ascending order by the first control break, the 15M field. Within the hour group, the data is grouped in ascending order by the second control break, the CMD field.

### The Number of Commands Option

Using the "Number of Commands" sort option (equivalent to setting the Display By parameter to "USAGE"), the results of the "Sample Sort Displays" report are displayed as follows:

```

16:43:10                SAMPLE SORT DISPLAYS                2003-07-07
                16:28:44 04-22-1996 Thru 16:31:06 04-22-1996                LOCL=00009
Time  Cmd      Total      Total      Total      Avg
      Response  IOs        Commands  Response
-----
16:30 N1          0.086016          747         168          0.000512
16:15 N1          0.232544          540          97          0.002397
16:30 L6          0.006640          533          24          0.000276
16:30 ET          0.028688          22           11          0.002608
16:15 L6          0.036960          261          9           0.004106
16:15 S1          0.026304          7            3           0.008768
16:15 ET          0.008320          6            3           0.002773
***** ***          0.425472          2116         315          0.001350
*****  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
    
```

Data is grouped in descending order by the "Number of Commands".

**Note:**

In Adabas Review, COMMANDS is now a selectable field. The "Number of Commands" sort option may be used to sort the display, even if the COMMANDS field is not displayed in the report.

## The First Summary Field Option

Using the "First Summary Field" sort option (equivalent to setting the "Display By" parameter to "SUMFIELD"), the results of the "Sample Sort Displays" report are displayed as follows:

```

16:43:21                SAMPLE SORT DISPLAYS                2003-07-07
                        16:28:44 04-22-1996 Thru 16:31:06 04-22-1996      LOCL=00009
Time  Cmd      Total      Total      Total      Avg
      Response  IOs      Commands  Response
-----
16:15 N1        0.232544      540        97        0.002397
16:30 N1        0.086016      747       168        0.000512
16:15 L6        0.036960      261         9        0.004106
16:30 ET        0.028688       22         11        0.002608
16:15 S1        0.026304        7          3        0.008768
16:15 ET        0.008320        6          3        0.002773
16:30 L6        0.006640      533        24        0.000276
***** ***      0.425472     2116       315        0.001350
*****  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

```

Data is grouped in descending order by the Total Response column, because the CMDRESP field was designated as the first summary field.

## The Account (Descend) Option

Using the "Account (Descend)" sort option (equivalent to setting the Display By parameter to "SORTEDDE"), the results of the "Sample Sort Displays" report are displayed as follows:

```

16:43:33                SAMPLE SORT DISPLAYS                2003-07-07
                        16:28:44 04-22-1996 Thru 16:31:06 04-22-1996      LOCL=00009
Time  Cmd      Total      Total      Total      Avg
      Response  IOs      Commands  Response
-----
16:30 N1        0.086016      747       168        0.000512
      L6        0.006640      533        24        0.000276
      ET        0.028688       22         11        0.002608
***** ***      0.121344     1302       203        0.000597
16:15 S1        0.026304        7          3        0.008768
      N1        0.232544      540        97        0.002397
      L6        0.036960      261         9        0.004106
      ET        0.008320        6          3        0.002773
***** ***      0.304128      814       112        0.002715
***** ***      0.425472     2116       315        0.001350
*****  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

```

Data is grouped in descending order by the first control break, the 15M field. Within the 15 minute interval, the data is grouped in descending order by the second control break, the CMD field.

### The Date and Time Option

Using the "Date and Time" sort option, the results of the "Sample Sort Displays" report are displayed as follows:

```

16:43:42                SAMPLE SORT DISPLAYS                2003-07-07
                        16:28:44 04-22-1996 Thru 16:31:06 04-22-1996      LOCL=00009
Time  Cmd      Total      Total      Total      Avg
      Response  IOs      Commands  Response
-----
16:15 N1        0.232544      540        97        0.002397
16:15 S1        0.026304         7         3        0.008768
16:15 L6        0.036960      261         9        0.004106
16:15 ET        0.008320         6         3        0.002773
16:30 L6        0.006640      533        24        0.000276
16:30 N1        0.086016      747       168        0.000512
16:30 ET        0.028688        22        11        0.002608
***** ***      0.425472     2116     315        0.001350
*****  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
    
```

Data is grouped in ascending order by the start date and time of the control break interval.

### The Physical Sequence Option

Using the "physical sequence" sort option, the results of the "Sample Sort Displays" report are displayed as follows:

```

16:01:50                SAMPLE SORT DISPLAYS                2003-07-07
                        15:46:24 06-14-1996 Thru 16:01:46 06-14-1996      LOCL=00009
Time  Cmd      Total      Total      Total      Avg
      Response  IOs      Commands  Response
-----
15:45 L6        0.008064      123         63        0.000128
      E4        0.001344         7         6        0.000224
      E1        0.002880         54        12        0.000240
      RI       0.000800         0         25        0.000032
      CL       0.026160         7         3        0.008720
***** ***      0.583040     4188     7553        0.000077
16:00 S4        0.023760        12        135        0.000176
      A1       0.033968       125       193        0.000176
      ET       0.003040        85        95        0.000032
      L3       0.038560       156       482        0.000080
      RC       0.011296         0       706        0.000016
      L9       0.006912         22       108        0.000064
      S1       0.008832         47         69        0.000128

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

Data is grouped in the order of the physical sequence in which it was collected.



## Printing Report Results

The HC command enables you to send report results to a printer, if the hard copy feature of Natural is available. The HC command may be issued from the list of history reports or the list of started reports (LH or LS functions).

### To print report results:

1. Enter the command HC on the selection line preceding the report name.

## Downloading Report Output

### Notes:

1. This command requires that you have Entire Connection installed.
2. The DL command is not available from the View Report Results (VW) screen.

The DL command enables you to download report output to a personal computer. This command may be issued from the Started Reports screen (LS function) or the History Reports screen (LH function).

### To download report results:

1. Enter the DL command on the selection line preceding the report name.

Entire Connection prompts you for a file name. A default directory name is displayed; you may specify a different directory name, if desired.

2. Press ENTER to begin the download procedure.

You are notified when the download procedure is completed.

The data downloaded to your personal computer contains only the contents of the fields in the report. The headings and edit masks supplied by the display program do not appear in the downloaded data.

## Purging Accumulated Data

The data accumulated by a report that has been started may be purged by issuing the PS command from the Started Reports screen (LS function). The PS command also deactivates the started report so that no further data is accumulated.

### To purge accumulated data:

1. Enter the PS command on the selection line preceding the report name from the Started Reports screen.

Depending on your profile setting, you may be prompted to confirm the purge request.

2. Confirm the purge request, if required.