

# 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<br><br><b>Note:</b><br>This setting is not available in batch mode. | LINEAR         |

This chapter 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          | —                       |

|                                                                                   |                                          |                         |     |     |     |     |      |       |
|-----------------------------------------------------------------------------------|------------------------------------------|-------------------------|-----|-----|-----|-----|------|-------|
| 16:40:01                                                                          | A D A B A S - R E V I E W<br>Edit Report | 2003-07-07<br>HUB=00221 |     |     |     |     |      |       |
| Report Name: SAMPLE SORT DISPLAYS_____ DBID to Monitor:____                       |                                          |                         |     |     |     |     |      |       |
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+                     |                                          |                         |     |     |     |     |      |       |
| Field                                                                             | Order                                    | Sum                     | Min | Max | Avg | Pct | Rate | Round |
| 15M_____                                                                          | _1                                       | —                       | —   | —   | —   | —   | —    | _____ |
| CMD_____                                                                          | _2                                       | —                       | —   | —   | —   | —   | —    | _____ |
| CMDRESP_                                                                          | —                                        | X                       | —   | —   | X   | —   | —    | _____ |
| IOS_____                                                                          | —                                        | X                       | —   | —   | X   | —   | —    | _____ |
| COMMANDS                                                                          | —                                        | X                       | —   | —   | —   | —   | —    | _____ |
| _____                                                                             | —                                        | —                       | —   | —   | —   | —   | —    | _____ |
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+                     |                                          |                         |     |     |     |     |      |       |
| Page 1                                                                            |                                          |                         |     |     |     |     |      |       |
| This report contains processing rules                                             |                                          |                         |     |     |     |     |      |       |
| 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

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:

| 16:42:47                                                                          |     | SAMPLE SORT DISPLAYS                         |           |                |              | 2003-07-07 |  |
|-----------------------------------------------------------------------------------|-----|----------------------------------------------|-----------|----------------|--------------|------------|--|
|                                                                                   |     | 16:28:44 04-22-1996 Thru 16:31:06 04-22-1996 |           |                |              | LOCL=00009 |  |
| Time                                                                              | Cmd | Total Response                               | Total IOs | Total Commands | Avg Response |            |  |
| -----                                                                             |     |                                              |           |                |              |            |  |
| 16:15                                                                             | ET  | 0.008320                                     | 6         | 3              | 0.002773     |            |  |
|                                                                                   | L6  | 0.036960                                     | 261       | 9              | 0.004106     |            |  |
|                                                                                   | N1  | 0.232544                                     | 540       | 97             | 0.002397     |            |  |
|                                                                                   | S1  | 0.026304                                     | 7         | 3              | 0.008768     |            |  |
| *****                                                                             | *** | 0.304128                                     | 814       | 112            | 0.002715     |            |  |
| 16:30                                                                             | ET  | 0.028688                                     | 22        | 11             | 0.002608     |            |  |
|                                                                                   | L6  | 0.006640                                     | 533       | 24             | 0.000276     |            |  |
|                                                                                   | N1  | 0.086016                                     | 747       | 168            | 0.000512     |            |  |
| *****                                                                             | *** | 0.121344                                     | 1302      | 203            | 0.000597     |            |  |
| *****                                                                             | *** | 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 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 Response                               | Total IOs | Total Commands | Avg 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 Response                               | Total IOs | Total Commands | Avg 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 Response                               | Total IOs | Total Commands | Avg 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 Response                               | Total IOs | Total Commands | Avg 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<br>Response                            | Total<br>IOs | Total<br>Commands | Avg<br>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.