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 **Note:** 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           2003-07-07
                              Edit Report                        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


               Total           Total           Total           Avg
    Time  Cmd  Response        IOs            Commands        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


               Total           Total           Total           Avg
    Time  Cmd  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


             Total            Total           Total            Avg
  Time  Cmd  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

                 Total          Total          Total          Avg
     Time  Cmd   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

                 Total          Total          Total          Avg
     Time  Cmd   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


              Total          Total          Total           Avg
 Time  Cmd  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.