NAF - Statistics - Function 21

When you invoke this function, the **Statistics** window appears.

```
Date 2002-10-22
Time 15:21:22
                   *** Natural Spool Administration ***
User SAG
                                Menu
                                                          File 7/411
  ------Statistics 7/411-----+
                                           Information
       Snapshot
       Form Statistics
                                            20 Cross-Reference
                                     !
       Printer Statistics
                                     !
                                            21 Statistics
       User Statistics
                                      !
                                            22 Look at Spool File
                                            23 CALLNAT Handling
                                      !
                                            Control Functions
                                            40 Check Spool File
                                            41 Logging Data
!
         Exit
                                            42 Create Test Reports
!
                                      !
                                            43 Delete Reports by Date
!
   Command / _ /
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Snaps Form Print User
```

The functions provided in the Statistics window are described in the following sections.

- Snapshot Function 21.1
- Form, Printer and User Statistics

Snapshot - Function 21.1

When you invoke this function, the Snapshot window appears.

A snapshot of the spool file provides information on formatting, the number of existing profiles, and the amount of unused resources. In addition, it indicates whether the chosen format is appropriate for the reports to be created. Important for this are the values provided in the fields Reports greater than one group and Unused Records/group (average).

Time 15:21:22	*** Noture	l Cocol Administ		Data 2002 10 22					
	""" Natura.								
User SAG		File 7/411							
+				+					
!	Usage of Report Data Area 3 Reports in total 7								
		=	Reports in total						
! Groups formatted	1000	Reports gr	Reports greater than one group						
! Groups used	8	14.2 % gı	14.2 % greater than one group						
! Groups free	992	Unused Red	Unused Records/group (average)						
!				!					
!	Records used for Object Area !								
! User profile	20 Logi	cal printer	60 Model	2 !					
! Allocation	29 Phys	ical printer	33 Format i	nfo 1!					
! Header page	1 Appl	ication	9 Acc. Aut	hor. 0 !					
! Statistics	1 Clus	ter	3	!					
! Logging	3 NTCC	table	12	!					
! Calendar/Year		age header	2	!					
!		9		· ·					
1	Record	ds used for Inte	ernal Area	· 1					
! Report Area				otal 3178 I					
+		=							
Press Enter.				'					
Command ===>									
Enter-PF1PF2I	o⊏3p⊑4p.	₽5D₽6D₽7	DEQDEQDE	10pp11pp12					
		. JF. 0 PF /							
Entr Help Menu H	TXIL			Cane					

In the above example window, the following information is provided:

- The spool file is formatted with 1000 groups of 3 records each. 8 of these groups are in use, 992 of them are free.
- The spool file contains 7 reports. 6 of these reports cover one group. 1 report uses more than one group. That means that 14.2% of the reports cover more than one group.
- 20 records are used for user profiles, 60 records for logical printers, 29 records for allocations, 33 records for physical printers, and so on.

Take care that the number of reports that are greater than one group is kept to a small percentage. Otherwise, the spool file should be reformatted with a higher number of records per group (see *Function 30.3*).

The information Unused Records/group (average): 2 tells you that on average, two records per group are not in use. Thus, in the above example, formatting with two records per group would be sufficient.

Form, Printer and User Statistics

When you invoke the function **Form Statistics** (Function 21.2), **Printer Statistics** (Function 21.3) or **User Statistics** (Function 21.4), a selection window similar to the one below appears.

```
Time 09:40:43 *** Natural Spool Administration ***
                                                        Date 2002-10-23
User SAG
                                                         File 7/411
                                Menu
+----- Form Statistics 7/411 -----+
                                          Information
       Display
       Print
                                    !
                                           20 Cross-Reference
  3
       Reset
                                           21 Statistics
                                    !
  4
       Hit List
                                     !
                                           22 Look at Spool File
!
  5
       Define
                                     !
                                          23 CALLNAT Handling
!
!
!
!
                                           Control Functions
!
                                            40 Check Spool File
!
                                            41 Logging Data
!
         Exit
                                     !
                                           42 Create Test Reports
                                     !
                                            43 Delete Reports by Date
!
!
                                     !
   Command / _ /
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Displ Print Reset Hitli Defin
```

From this window, you can perform any of the following functions:

- Display
- Print
- Reset
- Hit List
- Define (not applicable to **Users Statistics**)

Display

When you select Function 1, the data collected for the selected statistics type are displayed on the screen, similar as shown for **Form Statistics** below.

For each active object, the number of lines, pages and reports is shown. In addition, the date and time for the first and last value that was processed are provided.

If the statistics are activated for an object, the object name is highlighted. Normal display of the object name indicates that the statistics are currently deactivated.

If a counter is highlighted, the maximum value to be stored was exceeded and all following data can no longer be accumulated.

To maintain the data shown, you can enter one of the following function codes for an object:

Function Code	Description
AC	Activate the statistics function for the object.
DA	Deactivate the statistics function for the object. The data stored for this object will still be available.
DE	Delete statistics data. The statistics status for this object is set to deactivated.
RE	Delete statistics data. The statistics status for this object (active/deactivated) is not modified.
MT	Modify the Time Window which schedules data collection for this object (date and/or time for start and/or end of data collection).

Print

When you select Function 2, a window similar to the one below appears.

```
*** Natural Spool Administration *** Date 2002-1
File 7/411
Time 09:45:58
                                                                                         Date 2002-10-23
User SAG
+-----
                                                                    Information
    Enter a logical printer, which is to be used for the spool-out of the statistics .... _____ ! 20 Cross-Reference 21 Statistics and number of positions for ! 22 Look at Spool File the left margin ..... 0__ ! 23 CALLNAT Handling !
!
!
!
!
                                                           !
! Mark function to be executed after !
! spool-out
Exeset statistics ... _ !

Delete statistics ... _ ! 40 Check Spool File

If no function is marked, the ! 41 Logging Data

If no function is marked, the ! 42 Create Test Reports

statistics are not modified. ! 43 Delete Reports by Data

!
                                                                   43 Delete Reports by Date
Enter values.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Displ Print Reset Hitli Defin Canc
```

In the window, specify the following:

- The logical printer which is used for the spool-out. You can also enter an asterisk (*) to select the logical printer from a list.
- A column number for the left margin.
- If you want to reset or delete the statistics data after generating the spool-out, mark the corresponding function.

Reset

When you invoke Function 3, a window appears similar to the example below, where you can specify whether to reset the statistical data of all objects for the statistics function specified.

```
File 7/411
User SAG
                           Menu
+----- Printer Statistics 7/411 -----+
                                   Information
 1 Display
      Print
                              !
                                    20 Cross-Reference
      Reset
                              !
                                   21 Statistics
 4
      Hit List
                              !
                                    22 Look at Spool File
!
 5
      Define
                               !
                                   23 CALLNAT Handling
!
+----+
! With this function all records !
                              !
                                   Control Functions
! for Printer Statistics are !
                               !
                                    40 Check Spool File
 reset.
                          !
                               !
                                   41 Logging Data
                          !
                              !
                                  41 Hogging 1 42 Create Test Reports
! Execute Reset function Y / N _ ! ! ! +------ !
                                   43 Delete Reports by Date
! Command / 3 /
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Displ Print Reset Hitli Defin Canc
```

Enter Y to confirm the action and reset the statistics data, or enter N to cancel the action.

Hit List

When you invoke Function 4, a window appears similar to the example of **Hit List Form Statistics** below.

```
Time 14:56:47
                *** Natural Spool Administration *** Date 2002-10-23
User SAG
                                                        File 7/411
+---- Hit List Form Statistics 7/411 ----+
!
                                   !
                                          Information
  Select sort function
!
                                    !
                                          20 Cross-Reference
                                   !
!
                                         21 Statistics
                                   !
!
                                         22 Look at Spool File
  Number of lines ..... x !
!
                                   !
                                         23 CALLNAT Handling
!
  Number of pages ....._
!
!
                                         Control Functions
!
  Number of reports ....._
                                    !
                                          40 Check Spool File
                                    !
                                          41 Logging Data
!
                                    !
                                          42 Create Test Reports
                                     !
                                         43 Delete Reports by Date
                                     !
Enter values.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit
```

In the **Hit List Statistics** window, mark one of the sort criteria listed:

- The number of lines.
- The number of pages.
- The number of reports.

When you press Enter, a screen appears similar to the example of **Hit List Form Statistics** below. This screen shows the most active objects for the statistics type selected. The sort criterion specified is highlighted. The maximum number of entries on this screen is 12.

Time 14:58	8:31		Natural Spool Administration *** Hit List Form Statistics				Date 2002-10-23 File 7/411	
Dest./Fo	ο.							
%		No.Pages	%	No.Repor.	%			
DDR1171 DDR1490 STD STD	A 2	856	9.3 15.0 47.2 28.5	214 354		4 3 1 1		
		5706		708		9		
Command ==	==> P		F4PF5-	PF6PF7	-PF8PF9	PF10PF11	PF12 Canc	

Define

Not applicable to Users Statistics.

When you invoke Function 5, a window appears similar to the example of **Define Printer Statistics** below.

```
*** Natural Spool Administration *** Date 2002-11-25
Time 15:24:46
                                                          File 19999/1241
User SAG
                                  Menu
+ Define Printer Statistics 19999/1241 -+
                                             Information
! Enter name of
                                             20 Cross-Reference
                                      !
 !
       Printer
                                      !
                                            21 Statistics
                                            22 Look at Spool File
!
                                       !
                                             23 CALLNAT Handling
! or
                                       !
 !
                                       !
           for Selection
 !
 !
                                       !
 !
       ? for Help
                                       !
                                             Control Functions
                                       !
           for End
                                       !
                                             40 Check Spool File
                                       !
                                             41 Logging Data
                                      !
                                             42 Create Test Reports
 !
       / _____ /
                                      !
                                             43 Delete Reports by Date
                                       !
Enter values.
Command ===>
Enter-PF1---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit
```

In the **Define Statistics** window, depending on the type of statistics (Form or Printer Statistics), enter the name of the allocation table or printer. You can also enter an asterisk (*) to select the object from a list.

When you press Enter, the statistics flag for the selected object is set to active.

Additionally, a window appears similar to the example below, where you can specify whether to invoke the **Time Window** for the allocation table (Dest./Fo. = Destination/Form) or printer (Phy. Prtr. = Physical Printer) specified. In the **Time Window**, you can define a data and time range for the data colletion.

```
Time 09:51:25 *** Natural Spool Administration ***
                                         Date 2002-10-23
                                          File 7/411
User SAG
                 Menu
+-----+ +
  Start value ..... ___
                      _____!!
                             Information
   -----!!
!
    20 Cross-Reference
21 Statistics
22 Look at Spool File
!
!
    _ DR1171
    _ EXIT3
!
!
    _ RSOEXAM
               _ SYSTEM !!
                               23 CALLNAT Handling
    _ TESTWIN
!
                          1 1
1
1
                          +----+
!
                          ! Do you wish to define or modify !
!
                          ! time windows for statistics
!
                          ! concerning Phy.Prtr. D9001
                               (Y/N) Y
 -----+
 Mark X (Select) . (End)
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Menu Exit
```

Enter N if you do not want to define a date/time range.

When you enter Y (this is the default), the **Time Window** appears as shown in the example of **Printer Statistics** below.

```
+-----Time Window-----+
  Start value ..... ____
                 ___!
  -----! Phy.Prtr. D9001
                                        !
  !
                    YYYY-MM-DD HH:II:SS Null value
!
!
                   !
                  ! Date/time for end of statistics
!
!
                   !
                    YYYY-MM-DD HH:II:SS Null value
!
                   !
                       _____ 00:00:00 Y (Y/N)
                  !
!
                  !
!
                  ! Note:
!
 -----! using time format CPU Time
! Mark X (Select) . (End)
                  !
+-----
Modify values.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
   Menu Exit
                                     Canc
```

In the **Time Window**, in the corresponding fields, enter a valid start and end end value. A date must be specified in the format YYYY-MM-DD (YYYY= year, MM= month, DD= day). The time must be specified in the format HH: II:SS (HH= hours, II= minutes, SS= seconds).

If you do not want a start or end date/time to be evaluated, in the field Null value, enter a Y (this is the default).

If you press Enter, a window appears with the date/time specified in Natural or CPU format (see also Function 30.5 - Set Spool Option).

Enter Y to confirm the date/time settings, or enter N to cancel the action.