

File Server Statistics

If a file server has been installed, the file server statistics part of the **Natural Tools for DB2** is used to display statistics on the use of the file server.

▶ To invoke the File Server Statistics function

- On the **Natural Tools for DB2 Main Menu**, enter function code F and press Enter

The **File Server - Generation Statistics** screen is displayed:

```

16:53:20          ***** NATURAL TOOLS FOR DB2 *****          2009-10-30
                   - File Server - Generation Statistics -

File Server Dataset Name .....: SAG.N2122.FSERV
Enqueue Resource Name .....: FSERVV609
Total Number of File Server Blocks .....: 1000
File Server Block Size .....: 4080
Number of Space Map Blocks .....: 2
Number of Global Directory Blocks .....: 1
                                   Entries .....: 203
User Space Allocation Quantities Primary ...: 50
                                   Secondary ..: 10
Total Number of Blocks permitted per User ...: 200

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                               Dire           Next  Canc

```

This screen provides information on parameters that must be specified when generating the file server.

If the file server storage medium is the Software AG Editor buffer pool, the **File Server - Generation Statistics** screen looks as follows:

```

16:53:20          ***** NATURAL TOOLS FOR DB2 *****          2009-10-30
                   - File Server - Generation Statistics -

File Server Dataset Name .....: STORAGE MEDIUM IS EDITOR BUFFER POOL

Enqueue Resource Name .....:

Total Number of File Server Blocks .....: 0

File Server Block Size .....: 4088

Number of Space Map Blocks .....: 0

Number of Global Directory Blocks .....: 0
                               Entries .....: 0

User Space Allocation Quantities Primary ....: 20
                               Secondary ..: 10

Total Number of Blocks permitted per User ...: 100

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                               Next  Canc

```

If you press PF11 (Next), a second screen is displayed, the **File Server - User Statistics** screen, showing statistics that have been kept since the file server was installed - **Statistics since Generation** -, and statistics about the current Natural session - **Current Session Statistics**.

```

16:53:20          ***** NATURAL TOOLS FOR DB2 *****          2009-10-30
                   - File Server - User Statistics -

Statistics since Generation:

Active Users - Maximum Number: 3           Current Number: 1
Maximum Number of used Blocks for single User .....: 200
                               for all Users .....: 200

Number of Block Allocations PRIMARY .....: 13
                               SECONDARY .....: 17

Number of free Blocks .....: 997

Number of INIT SESSION Calls .....: 65

Current Session Statistics:

Total Number of Blocks .....: 0
                               Free Blocks .....: 0
                               Secondary Allocations .....: 0

VSAM I/O Buffer inside DB2AREA .....: YES   (Yes/No)

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                               Dire  Prev      Canc

```

If you press PF10 (Prev), you are returned to the **File Server - Generation Statistics** screen.

Statistics are updated, each time you press Enter, PF10, or PF11.

If the file server storage medium is the Software AG Editor buffer pool, the **File Server - User Statistics** screen looks as follows:

```

16:53:20          ***** NATURAL TOOLS FOR DB2 *****          2009-10-30
                   - File Server - User Statistics -

Statistics since Generation:

Active Users - Maximum Number: 3          Current Number: 0
Maximum Number of used Blocks for single User .....: 0
                                     for all Users .....: 0
Number of Block Allocations PRIMARY .....: 0
                                     SECONDARY .....: 0
Number of free Blocks .....: 0
Number of INIT SESSION Calls .....: 0

Current Session Statistics:

Total Number of Blocks .....: 20
Free Blocks .....: 20
Secondary Allocations .....: 0
VSAM I/O Buffer inside DB2AREA .....: YES (Yes/No)

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                               Prev           Canc

```

Note that the section **Statistics since Generation** could not be provided by this display.

For file server VSAM files, Natural for DB2 also provides file server directory display and maintenance.

If you press PF9 (Dire), the active directory entries are listed showing the session identifiers and their allocated file server blocks. The display looks like the following:

```

12:47:40          ***** NATURAL TOOLS FOR DB2 *****          2009-11-03
User XYZ          - File Server - Directory Entries -          TID TCD4

C No Tpsessid Birth      1st Block Last Block   Blocks Comment
-----
- 0 Free Chn          pre NDB43          826      964      597 Checked
- 1 TCKK              pre NDB43          902      951      50  Checked
- 2 TCLB              pre NDB43           50       99      50  Checked
- 3 TCR0              pre NDB43          301      250      50  Checked
- 4 TCR7              pre NDB43          251      350      50  Checked
- 5 TCDW              pre NDB43          604      503      50  Checked
- 6 TCEX              pre NDB43          504      653      50  Checked
- 7 TCWX              2009-09-25         957      374      50  Checked
- 8 TC42              2009-10-15         357      993      50  Checked
- 9 - free -          -                  0         0         0  Empty Chain
- 10 - free -         -                  0         0         0  Empty Chain

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Cont Help      Exit List Pos  --  -  +  ++  Delet Fresh Canc

```

Birth denotes a rough creation date of the file server session, if it was created by Natural for DB2 Version 4.3. If the file server session was created by an earlier version of Natural for DB2, the birthday of the file server session appears as `pre NDB43`.

The **Directory Entries** screen provides the functionality to scroll through the directory entries and to position a particular entry to the top of the screen.

In addition, **Directory Entries** allows you to list all file server block numbers of a directory entry (PF4, line command L) or to delete a directory entry from the file server (PF10, line command D). You should only delete directory entries, if you are sure the associated Natural session is no longer alive, otherwise the deletion could destroy the file server structure.

Directory Entries reflects the file server sessions at one particular point in time. By pressing PF11, the display will be refreshed from the file at another (actual) point in time.