Print File/Work File Server NATPWSV2

This document describes the print file/work file server NATPWSV2 for the RPC batch server environment under BS2000/OSD that is started via the RPC Server Front-End.

The following topics are covered:

- Setup

- Operation

See also *Print File/Work File Server NATPWSV2 Error Messages* in the *Messages and Codes* documentation.

Setup

The print file/work file server NATPWSV2 communicates with the RPC batch server NATFSTB2 by using the forward eventing method.

To setup the print file/work file server, perform the following steps:

- Link the module NATFSTB2 to the Natural nucleus. The module NATFSTB2 *replaces* the program NATWKFB2.

- The module NATPWSV2 must be linked, together with an ADDON parameter definition, for the common memory pool with the new pool type PWK (print file/work file control pool) in the program BS2STUB. This common memory pool must be set up using a defined fixed address, for example:

```
PWKSTUB   BS2STUB PARMOD=31,PROGMOD=ANY,UNRES=*DBLOPT
          ADDON NAME=PWK#POOL,      NAME OF CONTROL POOL       -
                TYPE=PWK,           TYPE OF CONTROL POOL       -
                SIZE=1MB,           POOL SIZE IN MB            -
                STAT=LOCAL,         POOL STATUS IS LOCAL       -
                SCOP=GLOBAL,        SCOPE IS GLOBAL            -
                POSI=ABOVE,         POOL POSITION IS ABOVE     -
                ADDR=19,            ADDRESS IS X'1300000'      -
                PFIX=YES,           POOL ADDRESS IS FIXED      -
                ACCS=WRITE          NO POOL PROTECTION
             ADDEND
```

The same ADDON parameter definition (except for ADDR=) must be contained in the program BS2STUB which is linked to the front-end part of the RPC batch server.

Example of linking the print file/work file server:

```
/EXEC $TSOSLNK
PROG PWKSRV,FILENAM=E.NATPWSV2,LOADPT=X'1000000',XREF=YES
TRAITS RMODE=ANY,AMODE=31
INCLUDE NATPWSV2,NATURAL.NATvrs.MOD
INCLUDE PWKSTUB,USERLIB
BIND
```

where:

vrs   stands for the current version of Natural for Mainframes and

USERLIB stands for the user-specific library.

Operation

Data exchange between the print file/work file server and the RPC batch server takes place in the print file/work file control pool (TYPE=PWK).

Starting the Print File/Work File Server

The print file/work file server has to be started *before* the RPC batch server.

The RPC batch server expects the presence of an initialized print file/work file control pool. This initialization occurs when the print file/work file server is started.

A Natural RPC batch server communicates with exactly one print file/work file server and vice versa (TSN1 <=> TSN2).

All print files and work files (link names P01 to P32 and W01 to W32) to be used have to be defined by a FILE command in the print file/work file server's job control.

Example of a start job:

```
/.PWKSRV LOGON
/ER LST.PWKSERVER.
/STEP
/OPTION DUMP=YES
/FILE WORK.W01,LINK=W01
/FILE WORK.W02,LINK=W02
.
.
/FILE PRINT.P01,LINK=P01
/FILE PRINT.P02,LINK=P02
.
.
/EXEC (NATPWSV2,NATURAL.NATvrs.MOD)
/LOGOFF N
```

Terminating the Print File/Work File Server

The print file/work file server can be terminated by way of P1 eventing, using the program CMPEND. The event name for terminating the print file/work file server is the name of the print file/work file control pool.

Example of a print file/work file server termination procedure:

```
/BEGIN-PROCEDURE LOGGING COMMANDS
/ASSIGN-SYSDTA TO=*SYSCMD
/SET-JOB-STEP
/START-PROGRAM FROM-FILE=*MODULE(LIBRARY=NATURAL.NATvrs.MOD,-
/      ELEMENT=CMPEND)
PWK#POOL          <== name of the print file/work file control pool
/SET-JOB-STEP
/ASSIGN-SYSDTA TO=*PRIMARY
/EXIT-PROCEDURE
```

All error messages (abnormal termination of the print file/work file server) are written to SYSLST99 into the file LST.PWKSERVER.ts*nn*.