

Installation for BS2000/OSD

You are recommended to read this section from beginning to end before starting the installation process.

This section covers the following topics:

- Installation Tape
 - Storage Requirements
 - Copying the Datasets from Tape to Disk
 - Installation Procedure
-

Installation Tape

The installation tape contains the datasets listed in the table below. The sequence of the datasets is shown in the **Report of Tape Creation** which accompanies the installation tape.

The notation *nnn* in dataset names represents the version number of the product.

Dataset Name	Contents
NPR <i>nnn</i> .JOBS	Entire System Server Installation Jobs.
NPR <i>nnn</i> .PAMS	Entire System Server Load Library.
NPR <i>nnn</i> .SRCE	Entire System Server Source Library
NPR <i>nnn</i> .INPL	Entire System Server DDM's and tutorial.
NPR <i>nnn</i> .ERRN	Entire System Server Error Messages
NPR <i>nnn</i> .DATA	Predict data for the Entire System Server.

Storage Requirements

File Name	Type	Disk PAM Pages
NPR <i>nnn</i> .JOBS	PAM	84
NPR <i>nnn</i> .MOD	PAM	864
NPR <i>nnn</i> .SRC	PAM	48
NPR <i>nnn</i> .INPL	SAM	2064
NPR <i>nnn</i> .ERRN	SAM	192
NPR <i>nnn</i> .DATA	SAM	2112

Copying the Datasets from Tape to Disk

If you are not using SMA, copy the datasets from tape to disk using the procedure described below. In this procedure, you must supply the following values:

- In the dataset names, replace *nnn* with the current version number of the datasets.
- Replace all occurrences of *xxxxx* with the volume serial number of the tape.
- Replace *ttt* with the proper device type.

Step 1

Copy the job dataset *NPRnnn.JOB*S from tape to disk using the BS2000/OSD utility PERCON or EDT.

If you use \$PERCON, issue the following commands:

```
/FILE NPRnnn.JOB, VOL=xxxxxx, DEV=ttt
      ,BLKSIZE=, RECFORM=, RECSIZE=, FCBTYPE=
      ,STATE=FOREIGN, FSEQ=UNK, LINK=PCIN
/FILE P.NPRnnn, LINK=PCOUT
/EXEC $PERCON
END
```

If you use \$EDT, issue the following commands:

```
/FILE NPRnnn.JOB, VOL=xxxxxx, DEV=ttt
      ,BLKSIZE=, RECFORM=, RECSIZE=
      ,STATE=FOREIGN, FSEQ=UNK, LINK=EDTSAM
/EXEC $EDT
$ READ '//'
$ SY '/REL EDTSAM'
$ WRITE 'P.NPRnnn'
$ HALT
```

Step 2

Then issue the command:

```
/CALL P.NPRnnn, PRODUCT=NPRnnn
```

This creates an example job library LIB.NPRnnn from the procedure dataset.

Step 3

Adapt job E.NPRTAPE from the example job library.

Then issue the following command to run the job, which copies all datasets from tape to disk:

```
/E LIB.NPRnnn(E.NPRTAPE)
```

Installation Procedure

Step 1: Scratch libraries SYSNPE and SYSNPR

(Job I051, Step 1100)

If you are upgrading from a previous version of the Entire System Server, scratch libraries SYSNPE and SYSNPR from your existing installation. Otherwise, skip this step.

Step 2: Load the INPL File and the ERRN File

(Job I061, Steps 1100 and 1102)

1. Use the Natural system command INPL (which is described in the Natural Reference documentation) in order to load the Entire System Server system objects (dataset *NPRnnn.INPL*).

This loads the following libraries:

Library	File	Contents
SYSNPR	FNAT	Installation aid (define DBIDs and define views to Natural Security)
SYSNPE	FNAT	Online tutorial
SYSNPEH1	FNAT	Help texts (English)
SYSNPEH2	FNAT	Help texts (German)

2. Load the Entire System Server error messages file (the dataset *NPRnnn.ERRN*) using the ERRLODUS utility. The ERRLODUS utility is described in the Natural Utilities documentation.

Step 3: Change the NATPARM Module

Add the ASIZE parameter and the following macro to the NATPARM module; then assemble and link it. For information on how to activate this NATPARM module for your Natural environment, refer to the Natural Installation Documentation for Mainframes.

```
ASIZE=48
NTDB PROCESS,148
```

ASIZE specifies the size of the auxiliary buffer. The minimum value is 36K and the maximum value is 64K. A value of at least 48 is recommended.

148 is the database ID with which the Entire System Server DDMs are cataloged. This does not affect the use of additional Entire System Server nodes with different node IDs, since these can be addressed via the NODE field in each Entire System Server view. See also the subsection Multiple Entire System Server Node Support in the Section Using the Entire System Server of the Entire System Server Administration Documentation.

Note:

If you are upgrading from a previous version of Entire System Server, use the startup parameter NODE to assign different node IDs to different versions of Entire System Server running on the same system. You may, for instance, have an Entire System Server Version 2.2.2 running in production using node ID 148, and specify NODE=168 in the startup parameter for Version 3.1.1 during installation and test.

Ensure the Natural session parameter LE is set to OFF, otherwise you may experience problems with the Online Tutorial.

Step 4: Change Defaults

1. Module NATPNIP:

- To change defaults in the parameter module NATPNIP, edit the source member NATPNIP (in the Natural source library).

Assemble it as described in Section Installing the Entire System Server Interface in the Natural Installation Guide for Mainframes.

NATPNIP contains the following parameters and defaults:

Parameter	Explanation
BUFLEN=8192	Length of all Adabas buffers.
NUMREQ=5	Number of parallel requests.
MAXCBL=3000	Complex FIND buffer length.
MAXEDL=3000	Editor session buffer length.
EXTUSER=USER	When running under UTM, value USER should be used to ship Natural's *USER to Entire System Server. When running under BATCH or TIAM, value ADDRESS-SPACE should be fetched to ship the User ID of the task to Entire System Server.

2. Assemble this module as described in the section *Installing the Entire System Server Interface* in the *Natural Installation Guide for Mainframes*.
3. The Entire System Server Interface (ESX) has been an integrated part of Natural since Version 2.3.4. All ESX modules will be automatically linked to the front-end part of Natural in Version NAT 2.3.4 and above. For further information, see *Installing the Entire System Server Interface* in the *Natural Installation Guide for Mainframes*.

Step 5: Load the DATA File

(Job I200, Step 1100)

All Entire System Server views have been documented in Software AG's repository Predict. The NPRnnn.DATA dataset on the installation tape contains these Predict view descriptions that can be loaded with the MIGRATE / COORDINATOR utility in Predict (Job I200, Step 1100). This is optional and applies to Predict Version 3.2 or above.

The MIGRATE / COORDINATOR utility is described in the Predict Reference documentation.

If, however, you have already loaded these descriptions from earlier versions of the Entire System Server (or Natural Process), you must also logon to Predict's online system to check the database name of DBID 148, to which the views are linked.

Its name must be ENTIRE-SYSTEM-SERVER. If it is not, change the database name before running Job I200, Step 1100 to load the dataset NPRnnn.DATA.

Note:

For Predict 3.2 and above: you can also ignore the message "Attribute OPSYS lost".

Step 6: Natural Security Considerations

If Natural Security is installed, define libraries SYSNPE, SYSNPR, SYSNPEH1 and SYSNPEH2 to Natural Security. If these applications are to be people-protected, link those user IDs to them that require authorization. Define libraries without "XREF = YES" to load all objects.

- SYSNPE contains the online tutorial;
- the installation aid in library SYSNPR can be used to apply initial security definitions for the Entire System Server views.

Step 7: Customize Startup Parameters

1. Copy member NPRPARMS from the library NPRnnn.SRCE to a SAM or ISAM file.
2. Edit this parameter file to set the correct startup parameters according to the requirements of your site.

For a description of the parameters and an example, see the section Startup Parameters of the Entire System Server Administration Documentation.

Step 8: Edit the Entire System Server Jobs

- Adjust job control for the Entire System Server MAIN Task.

Edit the example Element E.ESYMAIN and adjust the library and file names used in it.

```

/.XCOM199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START

*-----*
* Run Entire System Server MAIN Task. *
*-----*

/.START            REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYMAIN.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYMAIN.199.&($SYSJV.TSN).ZAPS, -
/                   SYSLST-NUMBER=1
/ SHOW-JOB-STATUS   JOB-IDENTIFICATION=*OWN

/ CREATE-FILE      FILE-NAME=$SAG.NPRnnn.CLOG.199, -
/                   SUPPORT=*PUBLIC-DISK -
/                   ( SPACE=*RELATIVE -
/                     ( PRIMARY-ALLOCATION = 12, -
/                       SECONDARY-ALLOCATION = 12 ) )
/ SET-JOB-STEP
/ CREATE-FILE      FILE-NAME=$SAG.NPRnnn.TRAC.199, -
/                   SUPPORT=*PUBLIC-DISK -
/                   ( SPACE=*RELATIVE -
/                     ( PRIMARY-ALLOCATION = 12, -
/                       SECONDARY-ALLOCATION = 12 ) )
/ SET-JOB-STEP
/ ADD-FILE-LINK    LINK-NAME=PARMS ,FILE-NAME=$SAG.NPRnnn.PARM.199
/ ADD-FILE-LINK    LINK-NAME=CLOG ,FILE-NAME=$SAG.NPRnnn.CLOG.199
/ ADD-FILE-LINK    LINK-NAME=TRACE ,FILE-NAME=$SAG.NPRnnn.TRAC.199
/ ADD-FILE-LINK    LINK-NAME=DDLIB ,FILE-NAME=$SAG.ADAmn.MOD
/ ADD-FILE-LINK    LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK    LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM   FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                     ELEMENT=ESYMAIN, -
/                     PROGRAM-MODE=*ANY, -
/                     RUN-MODE=*ADVANCED ), -
/                   MONJV=#ESYMAIN.&($SYSJV.TSN)

/ SET-JOB-STEP
/ SHOW-JOB-STATUS   JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS    TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYMAIN.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYMAIN failed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP

/.OKAY             REMARK
/ WRITE-TEXT       TEXT='***** ESYMAIN successfully executed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP

/.STOP             REMARK
/ EXIT-JOB         MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server. The file referenced by the link name PARMS contains the Entire System Server startup parameters. For a description of startup parameters, see the section Startup Parameters of the Entire System Server Administration Documentation.

The ADD-FILE-LINK statement to assign link name CLOG is only needed if the logging facility of Entire System Server is activated by setting the appropriate parameter LOGGING=YES in the startup parameter file or dynamically via operator command interface:

```
/INTR <tsn>, LOGGING=YES
```

where <tsn> is the TSN assigned to the MAIN task.

The file assigned by link name TRACE is needed to save the TRACE data buffer at exit of the ESY MAIN Task. The assignment is not required if startup parameter TRACE-SAV=NO was specified.

The library concept of Entire System Server is described in detail in the section Library Concept on BS2000/OSD for Entire System Server in the Section BS2000/OSD Considerations of the Entire System Server Administration Documentation.

More information about running ESY on BS2000/OSD is available in the section Details for Running Entire System Server on BS2000/OSD in BS2000/OSD Considerations of the Entire System Server Administration Documentation.

- Adjust job control for the Entire System Server SERVER Task.

Edit the example element E.ESYSERV and adjust the library and file names used in it.

```

/.XSRV199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Run Entire System Server SERVER Task.          *
*-----*
* Filename / LMS-element-name of this job must be specified in      *
* startup parameters. It will be started automatically at startup      *
* of Entire System Server by MAIN Task.          *
* If Dynamic Server Management is enabled, SERVER Tasks will be      *
* started dynamically during runtime to handle increasing work      *
* load.          *
*-----*
/.START             REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYSERV.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYSERV.199.&($SYSJV.TSN).ZAPS, -
/                   SYSLST-NUMBER=1
/ SHOW-JOB-STATUS   JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK    LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK    LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM    FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                   ELEMENT=ESYSERV, -
/                   PROGRAM-MODE=*ANY, -
/                   RUN-MODE=*ADVANCED ), -
/                   MONJV=#ESYSERV.&($SYSJV.TSN)
/ SET-JOB-STEP      JOB-IDENTIFICATION=*OWN
/ SHOW-JOB-STATUS   TO-LABEL=OKAY, -
/ SKIP-COMMANDS    IF=JV(COND=(#ESYSERV.&($SYSJV.TSN),1,2) EQ '$T')
/ WRITE-TEXT        TEXT='***** ESYSERV failed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP
/.OKAY              REMARK
/ WRITE-TEXT        TEXT='***** ESYSERV successfully executed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP
/.STOP              REMARK
/ EXIT-JOB          MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server SERVER Tasks. They will be started automatically by the ESY MAIN Task. The location of this job (file or LMS element) and the number of server tasks to be started are specified in startup parameters JOBSERVER and NUMTASK. For a description, see the section Startup Parameters of the Entire System Server Administration Documentation.

It is also possible to run a Dynamic Server Management with ESY. For detailed information, see the section Dynamic Server Management for Entire System Server in the Section Common Entire System Server Features of the Entire System Server Administration Documentation.

- Adjust job control for the Entire System Server Eventing Manager Task.

Edit the example element E.ESYEVTM and adjust the library and file names used in it.

```

/.XEVE199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Run Entire System Server Eventing Manager Task. *
*
* Filename / LMS-element-name of this job must be specified in *
* startup parameters. It will be started automatically at startup   *
* of Entire System Server by MAIN Task. *
*-----*
/.START           REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYEVTM.199.&($SYSJV.TSN)
/ ASSIGN-SYSLST    TO=$SAG.LST.ESYEVTM.199.&($SYSJV.TSN).ZAPS, -
/                   SYSLST-NUMBER=1
/ SHOW-JOB-STATUS  JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK   LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK   LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM   FROM-FILE=*MODULE -
( LIBRARY=$SAG.NPRnnn.MOD, -
ELEMENT=ESYEVTM, -
PROGRAM-MODE=*ANY, -
RUN-MODE=*ADVANCED ), -
MONJV=#ESYEVTM.&($SYSJV.TSN)

/ SET-JOB-STEP    JOB-IDENTIFICATION=*OWN
/ SHOW-JOB-STATUS  TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYEVTM.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYEVTM failed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/.OKAY            REMARK
/ WRITE-TEXT      TEXT='***** ESYEVTM successfully executed *****'
/ SKIP-COMMANDS   TO-LABEL=STOP
/.STOP            REMARK
/ EXIT-JOB        MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to start the Entire System Server Eventing Manager Task. It will be started automatically by the MAIN Task at Entire System Server startup if startup parameter EVENTLEN is not 0. The location of this job (file or LMS element) is specified in the startup parameter JOBEVENT. For a description of startup parameters, see the section Startup Parameters of the Entire System Server Administration Documentation.

- Adjust job control for the Entire System Server CONSOLE Task.

Edit the example element E.ESYCONS and adjust the library and file names used in it. With parameter APPL-NAME of the SET-DCAM-APPL-LINK statement in the example job, the name of the DCAM application which will connect to UCON (application \$CONSOLE) is defined. This name must be specified in the BCAM command BCLOSE to end the UCON interface task.

```

/.XCON199          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Run Entire System Server CONSOLE Task.          *
*-----*
* Filename / LMS-element-name of this job must be specified in      *
* startup parameters. It will be started automatically at startup      *
* of Entire System Server by MAIN Task if not running yet.          *
*-----*
* This service task can be shared by all Entire System Server      *
* nodes with version ESY 3.1.1 and above running on the same      *
* BS2000/OSD.          *
*-----*
/.START            REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSDTA     TO=*SYSCMD
/ ASSIGN-SYSLST     TO=$SAG.LST.ESYCONS.199.&($SYSJV.TSN)
/ SHOW-JOB-STATUS   JOB-IDENTIFICATION=*OWN
/ SET-DCAM-APPL-LINK LINK-NAME=ESYCONAP,           "must not be changed" -
/                   APPLICATION-NAME=ESYCONS2 "may be changed"
/ START-PROGRAM    FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                   ELEMENT=ESYCONS, -
/                   PROGRAM-MODE=*ANY, -
/                   RUN-MODE=*ADVANCED ), -
/                   MONJV=#ESYCONS.&($SYSJV.TSN)
CON6,C'CON6'
1009
/ SET-JOB-STEP
/ SHOW-JOB-STATUS   JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS    TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYCONS.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYCONS failed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP
/.OKAY             REMARK
/ WRITE-TEXT        TEXT='***** ESYCONS successfully executed *****'
/ SKIP-COMMANDS    TO-LABEL=STOP
/.STOP              REMARK
/ EXIT-JOB          MODE=*NORMAL, SYSTEM-OUTPUT=*NONE

```

This job is used to start the UCON interface task (CONSOLE Task) of Entire System Server. It will be started automatically by the MAIN Task at Entire System Server startup, if it is not yet active in the system and if startup parameter CONACCESS is not NONE. The location of this job (file or LMS element) is specified in the startup parameter JOBCONS. For a description of startup parameters, see the section Startup Parameters of the Entire System Server Administration Documentation.

The parameters of program ESYCONS must be specified in the following order:

- Authorization for connection to UCON (connection message)
- Size of table for collecting console messages in number of messages.

You are recommended to use one of the following values as number of messages in order to optimize memory usage:
132 (64K), 424 (128K), 717 (192K), 1009 (256K).

- Adjust job control for the Entire System Server Shutdown Program.

Edit the example element E.ESYSTOP and adjust the library and file names used in it.

```

/.ESYSTOP          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS   TO-LABEL=START
*-----*
* Execute ESYSTOP to shutdown Entire System Server. *
*-----*
/.START REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                               OPERATOR-INTERACTION=*YES, -
/                               LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSDTA      TO=*SYSCMD
/ ASSIGN-SYSLST      TO=$SAG.LST.ESYSTOP.199.&($SYSJV.TSN)
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ ADD-FILE-LINK     LINK-NAME=DDLIB2 ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK     LINK-NAME=BLSLIB00,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM    FROM-FILE=*MODULE -
/                               ( LIBRARY=$SAG.NPRnnn.MOD, -
/                               ELEMENT=ESYSTOP, -
/                               PROGRAM-MODE=*ANY, -
/                               RUN-MODE=*ADVANCED ), -
/                               MONJV=#ESYSTOP.&($SYSJV.TSN)

--JNAME XCOM199
/ SET-JOB-STEP      JOB-IDENTIFICATION=*OWN
/ SHOW-JOB-STATUS    TO-LABEL=OKAY, -
/ SKIP-COMMANDS     IF=JV(COND=(#ESYSTOP.&($SYSJV.TSN),1,2) EQ '$T')
/                               TEXT='***** ESYSTOP failed *****'
/ SKIP-COMMANDS     TO-LABEL=STOP
/.OKAY              REMARK
/ WRITE-TEXT        TEXT='***** ESYSTOP successfully executed *****'
/ SKIP-COMMANDS     TO-LABEL=STOP
/.STOP              REMARK
/ EXIT-JOB          MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job should be used to shutdown the Entire System Server.

See the subsection Shutdown of Entire System Server on BS2000/OSD in the Section BS2000/OSD Considerations of the Entire System Server Administration Documentation for more details.

- Adjust job control for the Entire System Server Trace Program.

Edit the example element E.ESYTRACE and adjust the library and file names used in it.

```

/.ESYTRACE          SET-LOGON-PARAMETERS
/ SKIP-COMMANDS    TO-LABEL=START
*-----*
* Execute ESYTRACE to run Entire System Server TRACE analyzer. *
*-----*

/.START             REMARK
/ MODIFY-JOB-OPTIONS INFORMATION-LEVEL=*MEDIUM, -
/                   OPERATOR-INTERACTION=*YES, -
/                   LOGGING=*PARAMETERS(LISTING=*YES)
/ MODIFY-TEST-OPTIONS DUMP=*YES
/ ASSIGN-SYSDTA      TO=*SYSCMD
/ ASSIGN-SYSLST      TO=$SAG.LST.ESYTRACE.199.&($SYSJV.TSN)
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ CREATE-FILE        FILE-NAME=$SAG.NPRnnn.TROU.199, -
/                   SUPPORT=*PUBLIC-DISK -
/                   ( SPACE=*RELATIVE -
/                     ( PRIMARY-ALLOCATION = 12, -
/                       SECONDARY-ALLOCATION = 12 ) )
/ SET-JOB-STEP
/ ADD-FILE-LINK     LINK-NAME=TRIN      ,FILE-NAME=$SAG.NPRnnn.TRAC.199
/ ADD-FILE-LINK     LINK-NAME=TROUT     ,FILE-NAME=$SAG.NPRnnn.TROU.199
/ ADD-FILE-LINK     LINK-NAME=DDLIB2    ,FILE-NAME=$SAG.NPRnnn.MOD
/ ADD-FILE-LINK     LINK-NAME=BLSLIB00  ,FILE-NAME=$SAG.NPRnnn.USER.MOD
/ START-PROGRAM    FROM-FILE=*MODULE -
/                   ( LIBRARY=$SAG.NPRnnn.MOD, -
/                     ELEMENT=ESYTRACE, -
/                     PROGRAM-MODE=*ANY, -
/                     RUN-MODE=*ADVANCED ), -
MONJV=#ESYTRACE.&($SYSJV.TSN)

199 --POLL
/ SET-JOB-STEP
/ SHOW-JOB-STATUS    JOB-IDENTIFICATION=*OWN
/ SKIP-COMMANDS      TO-LABEL=OKAY, -
/                   IF=JV(COND=(#ESYTRACE.&($SYSJV.TSN),1,2) EQ '$T')
/                   TEXT='***** ESYTRACE failed *****'
/ SKIP-COMMANDS      TO-LABEL=STOP
/ .OKAY              REMARK
/ WRITE-TEXT         TEXT='***** ESYTRACE successfully executed *****'
/ SKIP-COMMANDS      TO-LABEL=STOP
/ .STOP              REMARK
/ EXIT-JOB           MODE=*NORMAL,SYSTEM-OUTPUT=*NONE

```

This job is used to run program ESYTRACE. It analyzes the TRACE data of Entire System Server if startup parameter "TRACE = YES" is defined. In order to start ESYTRACE in Monitor mode, parameter line "199 --POLL" is specified. The assignment of LINK-NAME TRIN is not needed here, because all data are read from memory pool only. The analyzed and edited TRACE data will be written to the file assigned by LINK-NAME TROUT.

This task must be stopped explicitly with operator command QUIT due to argument "--POLL".

For more information, see section Creating Trace Data in the Entire System Server in the Section Common Entire System Server Features of the Entire System Server Administration Documentation.