

Development Server Configuration under OS/390

This document describes how to configure the Development Server.

The following topics are covered:

- Configuration File
 - Configuration Parameters
 - Server Datasets
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Configuration File

A configuration file is allocated to the DD-name STGCONFIG. The configuration file is a text file located on a dataset or an HFS file that contains the server configuration parameters in form of a *keyword=value* syntax.

Configuration Parameters

The following configuration parameters are available:

FRONTEND_OPTIONS | FRONTEND_PARAMETER | THREAD_NUMBER | FRONTEND_NAME |
THREAD_SIZE | TRACE_LEVEL | SESSION_PARAMETER | DEFAULT_PROFILE | HOST_NAME |
PORT_NUMBER

FRONTEND_OPTIONS

This configuration parameter specifies additional options for the Natural front-end as follows:

01	Do not use the roll server.
02	Clean up roll file at server termination.
04	Write GTF trace.
08	Write ETRACE.
10	Front-End automatic termination.
20	Write console information.

Default value: 01

Example:

FRONTEND_OPTIONS=07 switches on options 01, 02 and 04.

FRONTEND_PARAMETER

This optional configuration parameter specifies additional Natural Front-End parameters as specified in the Startup Parameter Area. You can define multiple parameters. Each parameter is specified by a pair of 8-character strings, of which the first contains the parameter keyword and the second the parameter value. For further information, see the Natural Operations for Mainframe documentation, Natural in Batch Mode.

Default value: none

Example:

```
FRONTEND_PARAMETER = "MSGCLASSX"
```

This setting determines that the default output class for CMPRINT is "X".

THREAD_NUMBER

This configuration parameter specifies the number of physical storage threads to be allocated by the Natural front-end, that is, the number of sessions which can be executed in parallel.

Note:

This number does not limit the number of sessions within the server, but the number of sessions which can be in execution status concurrently. The number of sessions is limited by the size of the Natural swap medium.

Default value: 3

Example:

```
THREAD_NUMBER=5
```

FRONTEND_NAME

This configuration parameter specifies the name of the Natural front-end to start a Natural session. The front-end resides on a PDS member.

Default value: none

Example:

```
FRONTEND_NAME=NAT315SV
```

THREAD_SIZE

This configuration parameter specifies the size (in KB) of each physical storage thread which contains the Natural session data at execution time.

Default value: 500

Example:

```
THREAD_SIZE=800
```

TRACE_LEVEL

See Trace Level details in the section Natural Development Server on Mainframe.

Default value: 0

Example:

```
TRACE_LEVEL=0x00000011
```

This setting switches on Bits 31 and 27.

DEFAULT_PROFILE

This optional configuration parameter defines a default profile. Specifying a parameter string in the **Map Environment** window of Natural Studio overwrites this default profile.

Default value: none

Example:

```
DEFAULT_PROFILE = RDEVS,10,930
```

If no parameters are defined in the **Map Environment** window, the session is started with the parameter PROFILE=(RDEVS10,930).

SESSION_PARAMETER

This optional configuration parameter defines session parameters that precede the parameter string either specified in the **Map Environment** window or defined by default from DEFAULT_PROFILE.

Default value: none

Example:

```
SESSION_PARAMETER = FNAT=(10,930)
```

Every session on this development server is started with the session parameter FNAT=(10,930) appended by the user-specified parameters or the definitions in DEFAULT_PROFILE.

HOST_NAME

This optional configuration parameter is necessary only if the server host supports multiple TCP/IP stacks.

If HOST_NAME is specified, the server listens on the particular stack specified by HOST_NAME, otherwise the server listens on all stacks.

Default value: none

Example:

```
HOST_NAME = node1
```

or

```
HOST_NAME = 157.189.160.55
```

PORT_NUMBER

This configuration parameter defines the TCP/IP port number under which the server can be connected.

Default value: none

Example:

```
PORT_NUMBER = 3140
```

Configuration file example:

```
# This is a comment
SESSION_PARAMETER= profile=(stgqa,10,930) fuser=(10,32)
DEFAULT_PROFILE = DEFPROF
THREAD_NUMBER = 2
THREAD_SIZE=700
FRONTEND_NAME = NATOS31L      # and another comment
PORT_NUMBER=4711
```

Server Datasets

The Development Server requires the following datasets:

STGCONFIG	Defines the server configuration file.
STGTRACE	The server trace output.
STGSTDO	The stdo dataset.
STGSTDE	The stde error output.