

Using Statements and Commands in a NaturalX Server Environment

The behaviour of some Natural statements and Natural system commands changes in a server environment. This section covers the following topics:

- Natural Statements
 - Natural System Commands
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Natural Statements

This section covers the following statements:

- DISPLAY, INPUT, PRINT, REINPUT and WRITE Statements
- WRITE WORK FILE and READ WORK FILE Statements
- STOP and TERMINATE Statements

DISPLAY, INPUT, PRINT, REINPUT and WRITE Statements

- Output to a screen (output to Report 0) is not appropriate in a server environment, and in some cases is not possible. Therefore, in the case of an interactive I/O in the server environment, the error NAT0723 is returned to the client. Redirecting the I/O by using the MAINPR parameter is, of course, possible and is fully supported.
- When output is written to a report by a method, the report is opened at the start of the method and closed at the end. The report is not kept open between method calls to avoid interference between clients.

OS/390

Open/close processing is controlled by the OPEN/CLOSE option of the corresponding PRINTER/WORK parameter definition. This means that files may be kept open between method calls. Shared print/work files are closed at server termination only.

Note:

Print/work files whose name starts with the letters 'CM' are shared.

WRITE WORK FILE and READ WORK FILE Statements

Windows 98/NT/2000 and UNIX

- When you access a work file in a method, the file is opened at the start of the method and closed at the end. The file is not kept open between method calls to avoid interference between clients.

OS/390

Shared Files

- Shared files are opened at first access and remain open until the entire server process terminates.

Exclusive Files

- **CLOSE=FIN**
The work file remains open as long as the Natural session hosts objects. When the last object is released, the session terminates and closes the files.
- **CLOSE=USR**
The work file remains open until it is either closed explicitly by a **CLOSE WORKFILE** statement or until the session terminates.
- **CLOSE=CMD**
The work file is closed after each method execution.

STOP and TERMINATE Statements

- The behaviour of the **TERMINATE** statement matches that of the **STOP** statement. Processing of return values is not supported.
- The **STOP** and **TERMINATE** statements behave in the same way as the **ESCAPE ROUTINE** statement during method execution. Method execution is terminated immediately without producing any return value.

Natural System Commands

Only the following Natural commands are allowed in the server environment:

- **CLEAR**
- **EXECUTE**
- **LOGOFF**
- **LOGON**
- **READ**
- **RETURN**
- **RUN**
- **SETUP**

All other commands will be rejected with the error NAT0082.