# Invoking and Terminating SYSMAIN

This section describes how to invoke and terminate the SYSMAIN utility online, in batch or by using an Application Programming Interface.

This section covers the following topics:

- Invoking SYSMAIN Online or Batch

- Invoking SYSMAIN with Appl. Programming Interface

- Terminating SYSMAIN

## Invoking SYSMAIN Online or Batch

The following instructions describe the methods of invoking the SYSMAIN utility by using a direct command (online or batch) or menu functions.

### ▶ To invoke SYSMAIN online

- From any library, enter the following Natural system command:

```
SYSMAIN
```

Or:
From the **Natural Main Menu**, invoke the **Maintenance and Transfer Utilities** menu and choose **Transfer Objects to Other Libraries**.

A **SYSMAIN Utility Main Menu** similar to the example below appears:

```
 10:39:24                ***** NATURAL SYSMAIN UTILITY *****            2005-08-10
 User SAG                        - Main Menu -


             Code  Object                            Code  Function

              A    Programming Objects                C    Copy
              D    Debug Environments                 D    Delete
              E    Error Message Texts                F    Find
              P    Profiles                           L    List
              R    Rules                              M    Move
              S    DL/I Subfiles                      R    Rename
              V    DDMs                               ?    Help
              ?    Help                               .    Exit
              .    Exit

 Object Code .. A                        Function Code .. _




 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  Copy  Del   Find  List  Move  Ren
```

The current setting of the system variable *LIBRARY-ID is passed to SYSMAIN and used as the
default source library for processing programming objects and debug environments.

#### ▶ To invoke SYSMAIN in batch

- Use the following direct command:

```
SYSMAIN
```

followed by one or more command strings. See also *Issuing Direct Commands*.

## Invoking SYSMAIN with Appl. Programming Interface

MAINUSER is an Application Programming Interface (API) that can be used to perform SYSMAIN
functions directly from any user-written object (for example, from a subroutine, program or subprogram)
without going through the normal steps of invoking SYSMAIN.

Upon completion of processing of the SYSMAIN functions, the utility is terminated and control is
returned to the program, subprogram or subroutine from which the request was issued.

MAINUSER is supplied as a cataloged object of the type subprogram in the system library SYSMAIN.
MAINUSER can be used in either online or batch mode.

**Note:**
MAINUSER must *not* be located in a user library. You must therefore copy it to the library SYSTEM on
the system file FNAT or FUSER or to any SYS-prefixed library which is the steplib for the application.

## Invoking MAINUSER

MAINUSER is invoked with the CALLNAT statement and its relevant parameters (see also *CALLNAT* in the *Natural Statements* documentation). MAINUSER must *not* be invoked from within the library SYSMAIN.

### ▶ To invoke MAINUSER

- Issue a CALLNAT statement that contains the following syntax elements:

  CALLNAT 'MAINUSER' *command error message library*

  where the variable values denote the following parameters:

| Parameter | Natural Data Format/Length | Explanation |
|---|---|---|
| *command* | A250 | The direct command string to be executed by SYSMAIN. |
| *error* | N4 | The return code issued by SYSMAIN at the end of processing to indicate a normal end of processing or an error. |
| *message* | A72 | The message corresponding to the error given online. |
| *library* | A8 | The library containing SYSMAIN. If not specified, the default is SYSMAIN. |

  An example of a callable routine is the program MAINCALL in the library SYSMAIN.

# Terminating SYSMAIN

### ▶ To terminate SYSMAIN

- In the Command line of any SYSMAIN screen, enter one of the following direct commands:

```
.
```

  (a period)

  or

```
END
```

  or

```
QUIT
```

Or:

Press PF3 (Exit), if required repeatedly.

Or:

In batch mode, use the either of the following direct command:

```
END
```

or

```
QUIT
```

See also *Issuing Direct Commands* in the section *Using Menu Functions and Commands*.

**Important:**

Do not terminate the SYSMAIN utility with the terminal command `%%`, because the environment may not be reset correctly.