

DOWNLOAD Statement

The Natural statement `DOWNLOAD` is used to send commands from the mainframe to the PC. See the Natural documentation for detailed information on this statement.

This chapter covers the following topics:

- Asynchronous Processing
- Synchronous Processing

See the section *Commands* for descriptions of all Entire Connection commands.

Asynchronous Processing

Asynchronous processing is started when you issue the `DOWNLOAD` statement as follows:

```
DOWNLOAD PC FILE work-file-number COMMAND command-name
```

where *command-name* can be any command which can also be entered in the command line of Entire Connection.

Processing on the host continues when the command has been recognized as being valid and when it has been started.

Synchronous Processing

This feature is available starting with Natural Version 4.1 for Mainframes and Natural Version 6.1 for UNIX.

Synchronous processing is started when you issue the `DOWNLOAD` statement with the `SYNC` option:

```
DOWNLOAD PC FILE work-file-number COMMAND command-name SYNC
```

Processing on the host is not continued until the command has been completely executed on the PC.

When the `DOWNLOAD` statement is used to execute a procedure file in synchronous mode, the following commands - when defined in the procedure file - cannot be executed since they require communication with the host:

```
CONNECT  
DISCONNECT  
EMULATE  
LEARN  
MONITOR  
PAUSE  
QA  
QUIT  
REC_BUFF  
REC_SCR  
REC_XFER
```

REVEAL
RSPMONITOR
SESSION
SET (with the parameters listed below)
SUSPEND
TOGGLE (with the parameters listed below)
TYPE
WAITFOR
WAITM

The following parameters of the commands SET and TOGGLE cannot be used in synchronous mode:

BAUDRATE
BREAKMS
COMMPORT
DATABITS
DISPLAY
EOSDELAY
EAB
INSTOGGLE
LOGOFF
LOGON
NTCON
NATFILE
NTCOFF
NUMLOCK
OEM
PARITY
REMOTEECHO
RESPONSE
STATUS
STOPBITS
TCPADDR
TCPPORT
UPLPSIZE

In addition, commands which use *SCREEN cannot be used in synchronous mode.

An error message occurs when one of the above commands or parameters is detected.

During the execution of a command or procedure file, the SYNC option can only be used in conjunction with the command SET PCFILE. See *Specifying a File Name Using the SET Command*.