General Information

NetWare SDK Developer's Guide

NetWare SDK Introduction

Things to Remember

NetWare SDK General Information

Client Development Setup

Supported Clients

NetWare Service Groups

Return Values

Getting Started

NetWare SDK Getting Started

NetWare SDK Getting Started: Concept Guide

NetWare SDK Introduction

Things to Remember

NetWare SDK General Information

Client Development Setup

Supported Clients

NetWare Service Groups

Return Values

Client Development Setup

DOS Client Development Setup

NLM Client Development Setup

OS/2 Client Development Setup

Windows 3.x Client Development Setup

Windows 95 Client Development Setup

Windows NT Client Development Setup

Parent Topic:

NetWare SDK Getting Started

How to Build HELLO.NLM with WATCOM IDE

This section outlines a method of building NLMs using the WATCOM* IDE v10.6. This method is recommended and approved by Novell Developer Support. Note that this method is specific to the `C' environment and is not suitable for the C++ environment.

Setting Up Your Environment to Use WATCOM IDE

Setting Up Your Environment to Use WATCOM IDE

Building HELLO.NLM with WATCOM IDE

Parent Topic:

NLM Client Development Setup

How to Build HELLO.NLM with WATCOM WMAKE

This section covers Novell's traditional approach to compiling example NLMs and therefore should be familiar to many developers. The QMK386 utility generates makefiles for WMAKE based on user input and entries in the MAKEINIT file generated by the MAKEINIT.EXE file.

Preliminary Assumptions for Building with WATCOM WMAKE

Building HELLO.NLM with WATCOM WMAKE

Editing the Makefile to Use WATCOM's Static Link Libraries

More About QMK386.EXE

Syntax for QMK386.EXE

Options for QMK386.EXE

Environment Variables for QMK386.EXE

Examples for Using QMK386.EXE

Notes for Using QMK386.EXE

Parent Topic:

NLM Client Development Setup

NetWare SDK General Information

How To Get Assistance

NetWare SDK Features

Supported NetWare Versions

Hardware and Software Requirements

NetWare SDK Libraries

Supported NetWare Clients

Reserving Services and Names

NetWare SDK Function Descriptions

NetWare SDK Structure Descriptions

Obsolete Function Process

Stack Requirements

Parent Topic:

NetWare SDK Getting Started

NetWare Service Groups

Communication

Connection

File

Internationalization

Login

Management

NDS and Bindery

Print

Parent Topic:

NetWare SDK Getting Started

NLM Client Development Setup

This section contains NLM client setup information and tutorials.

NLM Client Development Setup Guidelines

How to Build HELLO.NLM with WATCOM WMAKE

How to Build HELLO.NLM with WATCOM IDE

Parent Topic:

Client Development Setup

Supported Clients

DOS

DOS Client Development Setup

Setting up Borland Compilers for DOS Client

Setting up Microsoft Compilers for DOS Client

Testing your DOS Client Setup

DOS Client Libraries

NLM

NLM Client Development Setup

OS/2

OS/2 Client Development Setup

OS/2 Client Libraries

Windows 3.x

Windows 3.x Client Development Setup

Windows 3.x Client Libraries

Windows 95

Windows 95 Client Development Setup

Windows 95 Client Libraries

Windows NT

Windows NT Client Development Setup

Windows NT Client Libraries

Parent Topic:

NetWare SDK Getting Started

NetWare SDK Getting Started: Tasks

Building HELLO.NLM with WATCOM IDE

1. **Create a directory for your project. (Example: C:\projects\hello)**

2. **Activate the WATCOM* IDE.**

3. **Select File / New Project from the menu bar.**

4. **Specify the project directory (as created in step 1 above) and a project name. (Example: HELLO.wpj)**

5. **A New Target window is displayed allowing you to specify a target name and an image type. (By default they should be set similar to the following: Target name = "hello", Image type = "NLM [.nlm]"). Press the OK button. A Source Files window will appear.**

6. **Initially, the Source Files window is empty. Press the INSERT key. An Add File(s) to... window will appear. Enter the name of the project's first `C' source file in the File Name field. (Example: HELLO.C). You may add other `C' source files as needed.**

7. **Continue using the Add File(s) to... window to specify the location of Novell's PRELUDE.OBJ file. Do this by first setting the List Files of Type field to All Files [*.*], then set the Drives field and Directories field to the SDKCD9\NWSDK\IMPORTS directory. Specify the file PRELUDE.OBJ and add it to the project. Close the Add File(s) to... window.**

8. **Select Options / Link for NetWare Switches... from the menu bar. Select 2. Import, Export and Library Switches from the scroll bar. Check the box labeled No default libraries [op nod].**

    Specify .IMP files as needed in the Import files(,):[imp] field. (Example: For the "Hello world" example, you will have to specify the following in the Import files(,):[imp] field):

    ```
    @$(nlm386imp)\threads.imp @$(nlm386imp)\nlmlib.imp
    ```

    > **NOTE:** The macro nlm386imp value is defined in Novell's makeinit file, generated by the MAKEINIT.EXE file in the NWSDK\TOOLS directory.

    You can use the ALL.IMP import file (which is generated by the MAKEINIT.EXE file) instead of listing the individual import files. The ALL.IMP file includes all available import files which is convenient for

new developers.

> **NOTE:** Since the ALL.IMP file imports every available symbol, it might require more memory than the environment has available.

Press the OK button.

9. **Select Options / C Compiler Switches... from the menu bar. By default, 1. File Option Switches will be selected on the scroll bar. Set the Include directories:[-i] field to $(nlm386hdr).**

   > **NOTE:** The macro value nlm386hdr is defined in Novell's makeinit file, generated by the MAKEINIT.EXE file in the NWSDK\TOOLS directory.

   An IDE Request window may appear asking **Mark all .c files in ` ...' for remake?** If so, press the Yes button.

10. **You may now wish to edit one (or more) of the previously specified `C' files. You may do so by double clicking on one of the files listed in the Source files: window. (Example: hello.c [n/a]).**

11. **Add the void__WATCOM_Prelude(void) function to one of your `C' source files (for example, add it to HELLO.C).**

    > **NOTE:** The WATCOM 10.6 compiler constructs OBJ files from `C' source files. When the WATCOM compiler is invoked from the IDE, a reference is automatically implied to an external __WATCOM_Prelude symbol. There is no known method of disabling this behavior from the IDE. (Even though the reference is not needed or even referenced in the `C' source). Therefore, your application must provide its own reference as a "shim" or "stub." This function will not be called by Novell's PRELUDE.OBJ or Dynamic Linked Library NLMs.

    (At this point we strongly recommend that you save the project. Press the disk icon in the tool bar.)

12. **Select Targets / Make from the menu bar.**

Related Topics:

Building HELLO.NLM with WATCOM WMAKE

Hello World: Example

Building HELLO.NLM with WATCOM WMAKE

1. **Add the NWSDK tools directory to your search path. This path will depend on where you installed your copy of the SDK.**

   The following command works if the SDK were installed in C:\SDK11:

```
SET PATH=%PATH%;C:\SDK11\NWSDK\TOOLS
```

This command allows the WATCOM* compiler to find the MAKEINIT file. It also allows you to invoke QMK386.EXE from the different example directories. These files could just as easily have been copied to another directory already in your search path (C:\DOS, for instance), but NWSDK\TOOLS directory also contains other tools you may eventually need.

> **NOTE:** This step assumes that you have already ran the NWSDK\TOOLS\MAKEINIT.EXE utility which generates the MAKEINIT and ALL.IMP files.

2. **Change your current directory to NWSDK\EXAMPLES\NLM\HELLO.**

3. **Invoke QMK386 to build a makefile for HELLO.C by entering the following command at the DOS prompt:**

```
qmk386 hello
```

This command tells QMK386 to build a makefile for the program called "hello".

The following message will appear after the makefile is created:

```
Creating Wlink-style MAKEFILE for hello ... done!
```

A makefile called MAKEFILE is now created and in the current directory.

> **NOTE:** These steps demonstrate how to build HELLO.NLM using Novell's libraries (CLIB) and startup files (PRELUDE.OBJ). If you are interested in compiling HELLO.NLM using WATCOM's static link libraries (CLIB3S), see Editing the Makefile to Use WATCOM's Static Link Libraries.

4. **Build HELLO.NLM by entering the following command:**

```
wmake
```

At this point you should have a file called HELLO.NLM in the current directory. This file is ready to load and run on a NetWare® server.

Related Topics:

Building HELLO.NLM with WATCOM IDE

NLM Hello World: Example

Editing the Makefile to Use WATCOM's Static Link Libraries

1. **Edit the MAKEFILE generated in step 3 in Building HELLO.NLM with WATCOM WMAKE. Remove or comment the following line:**

```
linkop = $ + $(linkop)- Nod
```

2. **Remove or comment the following line in the MAKEINIT file:**

```
startup = $(nlm386imp)\prelude.obj
```

3. **Rebuild as instructed in step 4 in Building HELLO.NLM with WATCOM WMAKE.**

Parent Topic:

Building HELLO.NLM with WATCOM WMAKE

Setting up Borland Compilers for DOS Client

Before building with a Borland* compiler, do the following:

1. **Make sure that your environment points to the NetWare® libraries and include files. One way to do this is by editing the Borland TURBOC.CFG file, which is located in the Borland \BIN directory. Edit this file to include the NetWare libraries and include files. For example (if the NetWare libraries and include files are located on drive C):**

```
-IC:\NWSDK\INCLUDE;C:\BC4\INCLUDE
-LC:\BC4\LIB;C:\NWSDK\LIB\DOS\BORLAND
```

Parent Topic:

DOS Client Development Setup

Setting up Microsoft Compilers for DOS Client

Before building with a Microsoft* compiler, do the following:

1. **Set the INCLUDE environment variable to include the INCLUDE directory of the NetWare® SDK and the INCLUDE directory of the Microsoft compiler. For example (if the NetWare INCLUDE directory is located on drive C):**

```
SET INCLUDE=C:\NWSDK\INCLUDE;C:\MSVC\INCLUDE
```

2. **Set the LIB environment variable to include the DOS libraries of the NetWare SDK and Microsoft libraries of the Microsoft LIB directory. For example (if the NetWare LIB directory is located on drive C):**

```
SET LIB=C:\NWSDK\LIB\DOS\MSC;C:\MSVC\LIB
```

Parent Topic:

DOS Client Development Setup

Setting Up Your Environment to Use WATCOM IDE

1. **Install the WATCOM* development environment. Include Novell NLM as a target platform.**

2. **Install Novell's SDK CD. Include NWSDK in the installation process.**

3. **Modify your computer's path statement to include the Novell SDK tools directory (NWSDK/TOOLS).**

   NOTE: This must be done so that:

   -WATCOM's Linker will find Novell's MAKEINIT file.

   -Novell's NLM tools (such as MSGLIB.EXE) will be accessible.

4. **Remove all files from the WATCOM\NOVI directory. Copy all .IMP files from the NWSDK\IMPORTS to the WATCOM\NOVI directory. Example:**

   ```
   COPY c:\sdkcd11\nwsdk\imports\*.imp c:\watcom\novi
   ```

   NOTE: The .imp files shipped with the WATCOM 10.6 compiler are outdated. There is no known method of changing the IDE's path to CLIB.IMP. Therefore, the only alternative is to update the files in the location that the IDE expects to find them.

Parent Topic:

How to Build HELLO.NLM with WATCOM IDE

Testing your DOS Client Setup

Once you are set up for development, you can test your setup by compiling, linking, and running the NWHELLO program.

1. **To run the program, you need to have the DOS client loaded and be attached to a NetWare® server. If your environment is set up correctly, you see the following message when you run the program:**

   ```
   Hello World
   You are attached to server server_name
   ```

   where *server_name* is the name of the server to which you are attached.

   The code for this program is contained in NWHELLO.C. The Borland make file is named BOR451.DOS; the Microsoft make file is named

MSVC15.DOS. All of these files are located on the NetWare SDK
CD-ROM under the following path:

```
\NWSDK\EXAMPLES\NWHELLO
```

If you are having problems, review the instructions in the top portion of
the make file you are using. If you are still having trouble, see How To
Get Assistance to contact Novell Developer Support.

Parent Topic:

DOS Client Development Setup

NetWare SDK Getting Started: Concepts

DOS Client Development Setup

In the following table:

The "Compiler" column lists compilers that have Novell provided libraries. These compilers can be used on the DOS Client.

The "Library Directory" column identifies the directory where the library and include files for the specific compiler are located.

The "Libraries" column links to a list of the DOS Client Libraries.

The "#define **Variable**" column specifies the variables that must be defined for the libraries to be used. The variables help define the data types in the ntypes.h header file which allows the code to be platform independent.

Compiler	Library Directory	Libraries	#define Variable
Borland* C++ (V 3.1 or above)	\NWSDK\LIB\DOS\BORLAND \NWSDK\INCLUDE	DOS Client Libraries	N_PLAT_DOS N_ARCH_16
Microsoft* C/C++ (V 7.0 or above)	\NWSDK\LIB\DOS\MSCVC \NWSDK\INCLUDE	DOS Client Libraries	N_PLAT_DOS N_ARCH_16
Microsoft* Visual C++* (V 1.0 or above)	\NWSDK\LIB\DOS\MSCVC \NWSDK\INCLUDE	DOS Client Libraries	N_PLAT_DOS N_ARCH_16

Parent Topic:

Client Development Setup

Related Topics:

Setting up Borland Compilers for DOS Client

Setting up Microsoft Compilers for DOS Client

Testing your DOS Client Setup

DOS Client Libraries

The following is a list of the DOS Client libraries. These library files are found in different directories, depending on the compiler being used. These DOS Client libraries are static.

For a description of these libraries, see NetWare SDK Libraries.

The library files for the Borland compiler are found in \NWSDK\LIB\DOS\BORLAND.

The library files for the Microsoft compiler are found in \NWSDK\LIB\DOS\MSCVC.

DOS Client Libraries
AUDDOS16.LIB
CALDOS16.LIB
CLNDOS16.LIB
CLXDOS16.LIB
CNWIPXSP.LIB
CTLI.LIB
LNWIPXSP.LIB
LOCDOS16.LIB
LTLI.LIB
MNWIPXSP.LIB
MTLI.LIB
NCPDOS16.LIB
NETDOS16.LIB
PRTDOS16.LIB
SNWIPXSP.LIB
STLI.LIB

NOTE: The following libraries only work with a Large Memory

Model:

AUDDOS16.LIB
CALDOS16.LIB
CLNDOS16.LIB
CLXDOS16.LIB
LOCDOS16.LIB
NCPDOS16.LIB
NETDOS16.LIB

Parent Topic:

DOS Client Development Setup

Environment Variables for QMK386.EXE

The following environment variables may be used with QMK386:

SWITCHAR sets the character that QMK386 uses as the delimiter for parameters. By default, the forward slash `/' is used.

QMK386 can be used to set options that are commonly used. For example, if you commonly use /Z and /IDT, set the environment variables as follows to avoid entering these options at the command line:

```
SET QMK386=/z /idt
```

SILENT places the SILENT directive in the makefile when set.

QMKVER allows you to specify the default way to build an application. If QMKVER is not specified, it will default to `d', which uses DEBUG compile switches, and includes debug information in the output file.

CCF386 specifies the command line switches to be used when rebuilding an application.

Parent Topic:

How to Build HELLO.NLM with WATCOM WMAKE

Related Topics:

Options for QMK386.EXE

Examples for Using QMK386.EXE

This section contains some examples of common build options used with QMK386. The parameters can appear in any order, and no spaces are required between options unless the options require a directory path or function name.

To create a WLINK style makefile for a program called HELLO, with an 8K stack, importing from CLIB.IMP, THREADS.IMP and NLMLIB.IMP:

```
F:\> qmk386 hello /ih /in
```

> **NOTE:** Import files can be included individually with the /i option (for example, /oh inlcudes the THREADS.IMP file). To inlcude the ALL.IMP file (which includes all the import files), do not use the /i option (ALL.IMP is the default setting).
>
> Using the ALL.IMP file might require more memory than is available in your environment.

To create a WLINK style makefile for a program called TEST1, with a 12K stack, importing from CLIB.IMP and TLI.IMP:

```
F:\> qmk386 /s12 /it test1
```

To create an NLMLINK style makefile for the example above:

```
F:\> qmk386 /s12 /it test1 /z
```

To create an NLMLINK style makefile, and run the NLMPACK utility:

```
F:\> qmk386 /s12 /it test1 /z /p
```

The /CS option allows you to specify source files. You can specify multiple /C<x> options, as well as use wildcards. This allows you to specify multiple dependencies for the first target. For example, to create a MAKEFILE for an NLM called MYNLM, made up of all the .C files in the current directory, importing a file called EXLIB.IMP and specifying a NetWare Loader module dependency on EXLIB.NLM:

```
F:\SRC> qmk386 mynlm /CS*.c /CIexlib /Cmexlib
```

Parent Topic:

How to Build HELLO.NLM with WATCOM WMAKE

Related Topics:

Options for QMK386.EXE

Hardware and Software Requirements

The number of machines required for development and testing depends on the type of application you are developing. Some applications require multiple servers and multiple clients to be properly tested. On the other hand, a NetWare® server application might be developed and tested with a single machine. Evaluate your needs based on your target application.

If you are using the OS/2* OS, the same machine can function as a server and client simultaneously by using NetWare® for OS/2.

All libraries included in the NetWare SDK are designed for use with the latest Novell® NetWare client software. These libraries are not intended for use with clients other than Novell's clients.

Parent Topic:

NetWare SDK General Information

How To Get Assistance

To receive developer technical support information, you can:

Call 1-800-REDWORD or 1-801-861-5281.

Send a FAX to 1-801-429-2990.

Access the Novell BBS at 1-801-861-5836. Set your communication software to N-8-1 before calling.

Access Novell's NetWire forum on CompuServe. Through the NDEVSUP forum, professional developers writing applications with Novell development tools can gain access to information specific to Novell development. Support, patches, periodicals and product information, as well as information on all programs and services provided for Novell developers, are accessible in this forum. Post your messages in the appropriate section addressed to Novell at 76701,171.

E-mail Novell on Compuserve. Address your messages to Novell at 76601,171, and post them in the appropriate section.

E-mail Novell Developer Support through the Internet at: devsup@novell.com.

Visit the Novell Developer Support World Wide Web Site at: devsup.novell.com.

Parent Topic:

NetWare SDK General Information

NetWare SDK Features

The NetWare® functions, a core set of application programming interfaces (APIs) that provide a direct programming link into the NetWare 3.x and 4.x OS services.

NetWare Internal Debugger, an assembly language debugger present within the NetWare 3.x and 4.x operating systems.

A collection of tools called Message Tools which help developers create

enabled applications. These applications create message files for your applications' messages so they can display the messages in more than one language.

Asynchronous input/output (AIO) communications with support of intelligent boards such as ARTIC and WNIM and communication ports such as COM1 and COM2.

Transport interface support for the Transmission Control Protocol/Internet Protocol (TCP/IP) and Internet Packet Exchange™/ Sequenced Packet Exchange™ (IPX™/SPX™ and SPX II) protocols.

TLI services (connection mode and connectionless mode).

BSD Socket Programming Interface for client-server communication.

Example programs that demonstrate the use of connections, communications, multiple threads, and various NetWare services.

Parent Topic:

NetWare SDK General Information

NetWare SDK Function Descriptions

Each function description is arranged as follows:

The name of the function is followed by a brief summary of what it does. The following sections describe the other parts of a function description in the order in which they appear.

NLM Information

If the function supports the NLM® platform, the summary is followed by two lines that indicate whether the function can be called locally or remotely, and whether the function blocks or not. Blocking functions relinquish control of the CPU, allowing other functions to run; whereas nonblocking functions do not relinquish control of the CPU, but run to completion.

Local Server indicates whether the function can be called on the server upon which the NLM is running (**locally**). **Remote Server** indicates whether the function can be called on a server other than the server that the NLM is running on (**remotely**). If **N/A** (not applicable) appears, that platform is not supported. That is, if the Remote Server category states N/A, the function cannot be called remotely. Values other than N/A indicate that local/remote servers are supported, and also give blocking information as follows:

blocking---the function blocks (relinquishes control of the CPU)

nonblocking---the function does not block (runs to completion before relinquishing control of the CPU)

either blocking or nonblocking---the function might or might not block depending on the circumstances surrounding the call. Look in the **Remarks** section for a paragraph entitled "Blocking Information" for a discussion of these circumstances.

Platform Information

Following the NLM information is platform information.

The **NetWare Server** line lists all the NetWare® server versions supporting that function.

The **Platform** line lists all the client platforms supporting the function. The functions are only tested with the newest versions of the Requesters. If you want your application to run with older versions, you are responsible for fixing any resulting incompatibities.

Services

This section notes the service group that the function belongs to. Even though functions are arranged by service category, this information can be helpful when you are jumping from manual to manual online.

Syntax

This section includes the include files and syntax for the function (C language).

Pascal Syntax

This section includes the Pascal language include files and syntax for the function.

Parameters

(Included if the function has parameters.) This section lists and describes the parameters of the function, identifying them as input (IN), output (OUT), or both input and output (IN/OUT).

Return Values

This section lists common return values for each function; others are possible. See Return Values.

Remarks

(Optional.) This section further describes the function.

NCP Calls

Lists the NCP calls used by the function.

See Also

(Optional.) This section lists any other function and structure references that are related to this function.

Parent Topic:

NetWare SDK General Information

NetWare SDK Introduction

The NetWare® SDK provides the APIs you need to develop distributed applications that take advantage of the NetWare 2.x, NetWare 3.x and NetWare 4.x OS's.

This documentation is designed to get you started using the NetWare SDK as quickly as possible by doing the following:

Providing information about the NetWare SDK.

Providing information on setting up your development environment.

Providing information about each NetWare client.

Parent Topic:

NetWare SDK Getting Started

Related Topics:

Things to Remember

NetWare SDK Libraries

The following table is a list of the NetWare® SDK libraries that are provided by Novell. This reference is given to help you decide which libraries to link into your code.

NOTE: There are five libraries that should **always** be linked into your code. They are:

CAL*.*
CLN*.*
CLX*.*
LOC*.*
NCP*.*

AUD*.*	Auditing Services functions
CAL*.*	Core library - **link in always**
CFGOS232.*	Miscellaneous Services functions for OS/2
CLN*.*	Core library - **link in always**
CLNWINTH. DLL	Support Library - **do not link**
CLX*.*	Core library - **link in always**
CNWIPXSP.LI	IPX Protocol Services and SPX Protocol Services

CNWIPXSP.LIB	IPX Protocol Services and SPX Protocol Services functions for DOS (compact memory model)
CTLI*.*	Transport Level Interface (TLI) Services functions (compact memory model)
LNWIPXSP.LIB	IPX Protocol Services and SPX Protocol Services functions for DOS (large memory model)
LOC*.*	Core library - **link in always**
LTLI.LIB	Transport Level Interface (TLI) Services functions (large memory model)
MNWIPXSP.LIB	IPX Protocol Services and SPX Protocol Services functions for DOS (medium memory model)
MTLI.LIB	Transport Level Interface (TLI) Services functions (medium memory model)
NCP*.*	Core library - **link in always**
NET*.*	Directory Services functions
NWAPP*.*	Novell Application Launcher functions
NWIPXSPX.*	IPX/SPX Transport functions for 16-bit Windows
NWSIPX*.*	IPX/SPX Transport functions for 32-bit Windows
PRT*.*	Printing Services functions
SNAPIN3X.LIB	Snap-in Services functions
SNWIPXSP.LIB	IPX Protocol Services and SPX Protocol Services functions for DOS (small memory model)
STLI.LIB	Transport Level Interface (TLI) Services functions (small memory model)
TLI_SPX.DLL	Transport Level Interface (TLI) Services functions that are implemented with SPX
TLI_TCP.DLL	Transport Level Interface (TLI) Services functions that are implemented with TCP
TLI_WIN.*	Transport Level Interface (TLI) Services functions that are implemented with Winsock

. represents the following library files:

DOS16.LIB	Static link library file for DOS source code (16 bit)
WIN16.LIB	Import library file for Windows source code (16 bit)
WIN16.DLL	Dynamic link library file for Windows source code (16 bit)
OS232.LI	Import library file for OS/2 source code (32 bit)

B	
OS232.DLL	Dynamic link library file for OS/2 source code (32 bit)
WIN32.LIB	Import library file for Windows NT and Windows 95 source code (32 bit)
WIN32.DLL	Dynamic link library file for Windows NT and Windows 95 source code (32 bit)

Parent Topic:

NetWare SDK General Information

NetWare SDK Structure Descriptions

Each structure description is arranged as follows:

The name of the structure is followed by a brief summary of what information it holds. The following sections describe the other parts of a function description in the order in which they appear.

Structure

This section includes the include files and structure definition (C language).

Pascal Structure

This section includes the Pascal language include files and structure definition.

Fields

This section lists and describes the structure fields.

Remarks

(Optional.) This section further describes the structure.

Services

This section notes the service group that the structure belongs to. Even though structures are arranged by service catagory, this information can be helpful when you are jumping from manual to manual online.

See Also

(Optional.) This section lists any other function and structure references that are related to this structure.

Parent Topic:

NetWare SDK General Information

NLM Client Development Setup Guidelines

In the past, NLM development and Novell® NLM Example Code were directed exclusively to the WATCOM* compiler. With the emergence of other tools, such as NLINK by Base Technologies, a more compiler-independent approach seems advantageous. This new approach has affected the NLM Example code presentation.NLM examples are no longer shipped with a makefile. Instead, each example includes source files and the corresponding compiled NLM file. In place of the makefiles, this document was created which describes how to compile a typical NLM example (such as HELLO.C)

Notes for Using QMK386.EXE

QMK386 MAKEFILEs define the following macros for your .C programs:

vMAJ - Major version number

vMIN - Minor version number

vREV - Revision number

The WMAKE macros which define the values of these are pvmaj, pvmin and pvrev. They are defined at the top of your MAKEFILE, and if you change the values, they are reflected in both the C macros as well as the version number passed to the linker. One way to create a version string in your NLM might be:

```
#define VERSION "Widget Monitor NLM v"vMAJ"."vMIN
```

This would expand to:

```
#define VERSION "Widget Monitor NLM v1.00"
```

if the default values were used.

Parent Topic:

How to Build HELLO.NLM with WATCOM WMAKE

Related Topics:

Options for QMK386.EXE

Obsolete Function Process

The Obsolete Function Process has been defined and is implemented as of release 11 for the NetWare® SDK.

	Beginning	Six months	Beginning	Beginning

	of 1st year	into 1st year	of 3rd year	of 4th year
libraries (.lib files)	Y	Y	Y	
headers (.h files)	Y	Y		
engineering support	Y			
documentation (NetWare SDK)	Y labeled (obsolete XX/XX)	Y labeled (obsolete XX/XX)	Y labeled (obsolete--not in .h files XX/XX)	

> **NOTE:** Y indicates that the item in the far left column is still supported. An absence of the Y in a field indicates that the item in the far left column is not supported.
>
> XX/XX indicates the date (for example: 12/96).

Obsolete Function Process Example

In December 1996, an obsolete function date is set for FUNCTION_A.

In June 1997, FUNCTION_A is no longer supported by engineering.

In December 1998, FUNCTION_A is removed from headers.

In December 1999, FUNCTION_A is removed from libraries.

First Year Documentation Details

The "obsolete" label is applied to a function that engineering will only support for another six months. The function is beginning the first year of the Obsolete Function Process.

Each obsolete function should only be documented in the appropriate function reference and linked to from the Functions and Structures Master List manual.

The obsolete function continues to be documented in the appropriate function reference for two years.

Second Year Documentation Details

There are no required documentation changes for the second year of the Obsolete Function Process.

Third Year Documentation Details

The "obsolete - not in .h files" label is applied to an obsolete function after two years have passed from the First Customer Ship date added when the "obsolete" label was originally applied to an obsolete function. The function

is beginning the third year of the obsolete function process and has been removed from the appropriate header files.

The obsolete function information is deleted from the appropriate function reference. All that remains of the function information is a brief outline stating the name of the obsolete function and what fully supported function should be called instead. The obsolete function outline will remain documented for one year.

All references to the obsolete function are removed from all other places within the NW SDK documentation.

Fourth Year Documentation Details

The obsolete function is now removed from the NetWare SDK library set.

The obsolete function is entirely removed from the NetWare SDK documentation as well.

Parent Topic:

NetWare SDK Getting Started

Options for QMK386.EXE

/?	Display help screens.
/c<x>	Specify additional objects, imports, exports and modules: e<spec> - Export file i<file> - Import file l<spec> - Library file m<spec> - Module dependency s<file> - Source file
/f<na me>	Specify name of output file. Default: MAKEFILE
/h<dir >	Specify additional INC386 directories.
/i<x>	Include import statement for ... a - AIO symbols c - CALNLM32 (cross-platform NWCalls symbols) d - NETNLM32 (cross-platform NDS symbols) e - DSEvent symbols f - Floating point support symbols h - Threads symbols I - NIT NLM symbols l - AFP symbols n - NLM-specific symbols (NLMLIB) o - SOCKLIB symbols

	o - SOCKLIB symbols p - Print symbols r - Requester symbols s - Streams symbols t - TLI symbols u - Unicode symbols v - 3.x Print Services symbols w - NWSNUT symbols x - CLXNLM32 (cross-platform NWClient symbols) y - AUDNLM32 (cross-platform Auditing symbols) z - LOCNLM32 (cross-platform NWLocale symbols) **NOTE:** The recommended method is to use the ALL.IMP file to load all symbols. The /i option cannot be used with the ALL.IMP file.
/l\<dir>	Specify additional LIB386 directories.
/n\<x>	NLM option ... m - Load Multiple p - PseudoPreemption r - ReEntrant s - Synchronize
/o\<x>	Other option ... b\<path> - shareliB path c\<api> - Check function d\<path> - xDc data path h\<file> - Help file m\<file> - Message file s\<api> - Start function u\<file> - cUstom file x\<api> - eXit function
/p	Run NLMPack after linking.
/s#	Set stack size to `#' KBytes.
/x	No default screen for NLM
/z	Generate an NLMLINK-style linker definition file.

Parent Topic:

How to Build HELLO.NLM with WATCOM WMAKE

OS/2 Client Development Setup

In the following table:

The "Compiler" column lists compilers that have Novell provided

libraries. These compilers can be used on the OS/2 Client.

The "Library Directory" column identifies the directory where the library and include files for the specific compiler are located.

The "Libraries" column links to a list of the OS/2 Client Libraries.

The "#define **Variable**" column specifies the variables that must be defined for the libraries to be used. The variables help define the data types in the ntypes.h header file which allows the code to be platform independent.

Compiler	Library Directory	Libraries	#define Variable
Borland* C++ for OS/2 (V 2.0 or above)	\NWSDK\LIB\OS32 \NWSDK\INCLUDE	OS/2 Client Libraries	N_PLAT_OS2 N_ARCH_32
IBM* CSET++ (V 2.1 or above)	\NWSDK\LIB\OS32 \NWSDK\INCLUDE	OS/2 Client Libraries	N_PLAT_OS2 N_ARCH_32
WATCOM* C++ (V 10.0 or above)	\NWSDK\LIB\OS32 \NWSDK\INCLUDE	OS/2 Client Libraries	N_PLAT_OS2 N_ARCH_32

Parent Topic:

Client Development Setup

OS/2 Client Libraries

The following is a list of the OS/2* Client libraries. These library files are all found in the same directory. They are not compiler specific.

These OS/2 Client libraries are dynamic.

For a description of these libraries, see NetWare SDK Libraries.

These OS/2 Client libraries are found in \NWSDK\LIB\OS232.

OS/2 Client Libraries (.LIB files)

AUDOS232.LIB
CALOS232.LIB
CFGOS232.LIB
CLXOS232.LIB
LOCOS232.LIB
NETOS232.LIB
NWSIPX32.LIB

OS/2 Client Libraries (.DLL files)
AUDOS232.DLL
CALOS232.DLL
CFGOS232.DLL
CLNOS232.DLL
CLXOS232.DLL
LOCOS232.DLL
NCPOS232.DLL
NETOS232.DLL
NWSIPX32.DLL

Parent Topic:

OS/2 Client Development Setup

Preliminary Assumptions for Building with WATCOM WMAKE

1. The WATCOM* compiler has been successfully installed on your machine. In this case "successfully installed" means that you can invoke WMAKE by entering WMAKE from the DOS prompt (the search path and environment variables are set up correctly, etc.). This tutorial was developed with version 10.5 of the compiler, but it should work with any version.

2. The Novell® SDK is installed successfully on your machine. The installation asks if you are using the WATCOM compiler and if so, which version. This information is used to tailor the MAKEINIT file to your environment.

Parent Topic:

How to Build HELLO.NLM with WATCOM WMAKE

Supported NetWare Versions

The NetWare® SDK documentation references different version numbers of the NetWare OS.

2.x---The NetWare 2.x label signifies that NetWare versions 2.0, 2.1, 2.15, and 2.2 are supported.

3.x---The NetWare 3.x label signifies that NetWare versions 3.0, 3.1, 3.11, and 3.12 are supported.

4.x---The NetWare 4.x label signifies that NetWare versions 4.0, 4.01, 4.02, and 4.1 are supported.

If the topic being discussed is specific to a particular NetWare version number, the manuals provide that version number (such as NetWare 2.2 or NetWare 4.0). **3.x and 4.x** signifies that NetWare 3.x and 4.x are supported.

Parent Topic:

NetWare SDK General Information

Reserving Services and Names

The NetWare® OS comes with a predefined set of services, but it allows you to expand these services. If you expand some of these services, you need to reserve the service's ID, name, number, or type with Developer Support to ensure uniqueness. You must call Developer Support to reserve any of the following items:

Bindery object types

NDS attribute names

NDS object class names

NCP™ Extension names

NCP Extension IDs

IPX™ Socket numbers

Accounting comment types

To reserve service IDs, names, numbers, or types, contact Developer Support. See How To Get Assistance for a list of ways to contact Developer Support. For international registration contact your local Novell® office.

Parent Topic:

NetWare SDK General Information

Stack Requirements

When creating an application using the NetWare® SDK, the minimum stack size should be 6 KB. Depending on the SDK functions used in your application, the SDK alone could use between 2 KB and 6 KB of stack space. It is recommended that you allow between 8 KB and 12 KB for the stack.

Parent Topic:

NetWare SDK General Information

Supported NetWare Clients

The NetWare® SDK supports several clients. Each of these clients has requirements for hardware and other client specifics. Libraries, tools, and documentation are included in this SDK to develop for each of these clients. Currently, NetWare supports the following clients:

DOS

NLM™

OS/2*

Windows* 3.x

Windows NT (on Intel 80x86 processor only)

Windows 95

Development for each of the clients is similar. Many of the functions are cross-platform, so they are supported on multiple clients. In cases where there are special considerations for a client, client specific information is provided with each function.

Parent Topic:

NetWare SDK General Information

Syntax for QMK386.EXE

```
[d:][path]QMK386 <progname> [/options]
```

[d:][path] specifies the drive and path containing the QMK386 command file.

<progname> The name of the modules whose makefile is being created. If this parameter is not set, the default name is "NONAME."

[/options] See Options for QMK386.EXE

Parent Topic:

How to Build HELLO.NLM with WATCOM WMAKE

Things to Remember

The following items are important things to remember when using the NetWare® SDK.

Keep in mind that all platforms that use NetWare services are considered **clients**, even NLM applications.

Windows* is a 16-bit platform while Windows 95 and Windows NT are 32-bit platforms.

The NetWare SDK is designed to work only with the Novell Requester.

NWCallsInit must be called before any other NetWare® function.

Paths passed to functions must be uppercase or the functions fail for all platforms.

Avoid passing the same pointer to multiple parameters of the same function. For example, avoid passing _serverName twice to **NWAddObjectToSet**.

Parent Topic:

NetWare SDK Getting Started

Windows 3.x Client Development Setup

In the following table:

The "Compiler" column lists compilers that have Novell provided libraries. These compilers can be used on the Windows 3.x Client.

The "Library Directory" column identifies the directory where the library and include files for the specific compiler are located.

The "Libraries" column links to a list of the Windows 3.x Client Libraries.

The "#define **Variable**" column specifies the variables that must be defined for the libraries to be used. The variables help define the data types in the ntypes.h header file which allows the code to be platform independent.

Compiler	Library Directory	Libraries	#define Variable
Borland* C++ (V 3.1 or above)	\NWSDK\LIB\WIN\BORLAND \NWSDK\INCLUDE	Windows 3.x Client Libraries	N_PLAT_MSW3 N_ARCH_16
Microsoft* Visual C++* (V 1.0 or above)	\NWSDK\LIB\WIN\MSCVC \NWSDK\INCLUDE	Windows 3.x Client Libraries	N_PLAT_MSW3 N_ARCH_16

Parent Topic:

Client Development Setup

Windows 3.x Client Libraries

The following is a list of the Windows* 3.x Client libraries. These library files are found in different directories, depending on the compiler being used. These Windows 3.x Client libraries are dynamic.

For a description of these libraries, see NetWare SDK Libraries.

The library (.LIB) files for the Borland compiler are found in \NWSDK\LIB\WIN\BORLAND.

The library (.LIB) files for the Microsoft compiler are found in \NWSDK\LIB\WIN\MSCVC.

The .DLL files for both the Borland and Microsoft compilers are found in \NWSDK\LIB\WIN.

Windows 3.x Client Libraries (.LIB files)
AUDWIN16.LIB
CALWIN16.LIB
CLXWIN16.LIB
LOCWIN16.LIB
NETWIN16.LIB
NWAPP16.LIB
NWIPXSPX.LIB

PRTWIN16.LIB
SNAPIN3X.LIB
TLI_WIN.LIB

Windows 3.x Client Libraries (.DLL files)
AUDWIN16.DLL
CALWIN16.DLL
CLNWIN16.DLL
CLXWIN16.DLL
LOCWIN16.DLL
NCPWIN16.DLL
NETWIN16.DLL
NWAPP16.DLL
NWIPXSPX.DLL
PRTWIN16.DLL
TLI_SPX.DLL
TLI_TCP.DLL
TLI_WIN.DLL

Parent Topic:

Windows 3.x Client Development Setup

Windows 95 Client Development Setup

In the following table:

The "Compiler" column lists compilers that have Novell provided libraries. These compilers can be used on the Windows 95 Client.

The "Library Directory" column identifies the directory where the library and include files for the specific compiler are located.

The "Libraries" column links to a list of theWindows 95 Client Libraries.

The "#define **Variable**" column specifies the variables that must be defined for the libraries to be used. The variables help define the data types in the ntypes.h header file which allows the code to be platform independent.

Compiler	Library Directory	Libraries	#define

Compiler	Library Directory	Libraries	#define Variable
Borland* C++ (V 4.5 or above)	\NWSDK\LIB\WIN32 \BORLAND \NWSDK\INCLUDE	Windows 95 Client Libraries	N_PLAT_ MSW4 N_ARCH_ 32
Microsoft* Visual C++* (V 2.0 or above)	\NWSDK\LIB\WIN32 \MSCVC \NWSDK\INCLUDE	Windows 95 Client Libraries	N_PLAT_ MSW4 N_ARCH_ 32

Parent Topic:

Client Development Setup

Windows 95 Client Libraries

The following is a list of the Windows 95* Client libraries. These library files are found in different directories, depending on the compiler being used. These Windows 95 Client libraries are dynamic.

For a description of these libraries, see NetWare SDK Libraries.

The library (.LIB) files for the Borland compiler are found in \NWSDK\LIB\WIN32\BORLAND.

The library (.LIB) files for the Microsoft compiler are found in \NWSDK\LIB\WIN32\MSCVC.

The .DLL files for both the Borland and Microsoft compilers are found in \NWSDK\LIB\WIN32\DLL\W95\.

Windows 95 Client Libraries (.LIB files)
AUDWIN32.LIB
CALWIN32.LIB
CLXWIN32.LIB
LOCWIN32.LIB
NETWIN32.LIB
NWAPPW95.LIB
NWSIPX32.LIB
PRTWIN32.LIB

Windows 95 Client Libraries (.DLL files)
AUDWIN32.DLL
CALWIN32.DLL
CLNWIN32.DLL
CLNWINTH.DLL
CLXWIN32.DLL
LOCWIN32.DLL
NCPWIN32.DLL
NETWIN32.DLL
NWAPPW95.DLL
NWSIPX32.DLL
PRTWIN32.DLL

Parent Topic:

Windows 95 Client Development Setup

Windows NT Client Development Setup

In the following table:

The "Compiler" column lists compilers that have Novell provided libraries. These compilers can be used on the Windows NT Client.

The "Library Directory" column identifies the directory where the library and include files for the specific compiler are located.

The "Libraries" column links to a list of the Windows NT Client Libraries.

The "#define **Variable**" column specifies the variables that must be defined for the libraries to be used. The variables help define the data types in the ntypes.h header file which allows the code to be platform independent.

Compiler	Library Directory	Libraries	#define Variable
Borland* C++ (V 4.5 or above)	\NWSDK\LIB\WIN32\ BORLAND \NWSDK\INCLUDE	Windows NT Client Libraries	N_PLAT_ MNT3 N_ARCH_ 32

| Microsoft* Visual C++* (V 2.0 or above) | \NWSDK\LIB\WIN32\ MSCVC | Windows NT Client Libraries | N_PLAT_ MNT3 |
| | \NWSDK\INCLUDE | | N_ARCH_ 32 |

NOTE: On the NetWare® SDK in the \NWSDK\LIB area is a subdirectory titled "WNT16". This subdirectory is used only to store DLLs that can be used to run Windows 3.x NetWare applications on Windows NT.

Parent Topic:

Client Development Setup

Windows NT Client Libraries

The following is a list of the Windows* NT Client libraries. These library files are found in different directories, depending on the compiler being used. These Windows NT Client libraries are dynamic.

For a description of these libraries, see NetWare SDK Libraries.

The library (.LIB) files for the Borland compiler are found in \NWSDK\LIB\WIN32\BORLAND.

The library (.LIB) files for the Microsoft compiler are found in \NWSDK\LIB\WIN32\MSCVC.

The .DLL files for both the Borland and Microsoft compilers are found in \NWSDK\LIB\WIN32\DLL\WNT32.

Windows NT Client Libraries (.LIB files)
AUDWIN32.LIB
CALWIN32.LIB
CLXWIN32.LIB
LOCWIN32.LIB
NETWIN32.LIB
NWAPPWNT.LIB
NWSIPX32.LIB
PRTWIN32.LIB

Windows NT Client Libraries (.DLL files)

AUDWIN32.DLL
CALWIN32.DLL
CLNWIN32.DLL
CLXWIN32.DLL
LOCWIN32.DLL
NCPWIN32.DLL
NETWIN32.DLL
NWAPPWNT.DLL
NWSIPX32.DLL
PRTWIN32.DLL

Parent Topic:

Windows NT Client Development Setup

Return Values

Return Values: Guide

Return Values: Concept Guide

Return Values Overview which highlights the following values:

errno Values (NLM: Declared in ERRNO.H)

IPX, NCP, and Other Values (File system, IPX™, NCP™, and other OS services) (0xFFFFFF01, 0xFFFFFF05, 0xFFFFFF6A --- Declared in NWDSERR.H)

NDS Values

NetWare Values

NetWareErrno Values (NLM: Declared in NWERRNO.H), including spawnlp/spawnvp Values

Print Server Values

Requester/Shell Values (0x8800 to 0x88FF --- Declared in NWERROR.H)

Server Values (0x8901 to 0x89FF --- Declared in NWERROR.H)

Unicode Values (0xFFFFFFE9 to 0xFFFFFFF9 --- Declared in UNICODE.H)

Return Values: Concepts

errno Values

-1	EFAILURE (Non-ANSI): Failed
0	ESUCCESS (Non-ANSI): Successful
1	ENOENT (ANSI): No such entity (file or directory)
2	E2BIG (ANSI): Argument list too big
3	ENOEXEC (ANSI): Execution format error
4	EBADF (ANSI): Bad file number
4	EBADF (BSD Socket): Bad handle or the handle is not an active socket handle
5	ENOMEM (ANSI): Not enough memory
6	EACCES (ANSI): Permission denied
7	EEXIST (ANSI): File exists
8	EXDEV (ANSI): Crossdevice link
9	EINVAL (ANSI, BSD Socket): Invalid argument
10	ENFILE (ANSI): File table overflow
11	EMFILE (ANSI): Too many open files
12	ENOSPC (ANSI): No space left on device
13	EDOM (Math): Argument too large
14	ERANGE (Math): Result too large
15	EDEADLK (File-locking): Resource deadlock
16	EINUSE (Implementation-defined): Resource(s) in use
17	ESERVER (Implementation-defined): Server error (out of memory, I/O error, etc.)
18	ENOSERVR (Implementation-defined): No server (no queue server, no server, etc.)

8	no server, etc.)
1 9	EWRNGKND (Implementation-defined): An operation is being attempted on the wrong object type
2 0	ETRNREST (Implementation-defined): Transaction restarted (NetWareErrno=163)
2 1	ERESOURCE (Implementation-defined): Resources are not available (might be permanent)
2 2	EBADHNDL (Implementation-defined): A bad handle (screen, file, semaphore, etc.)
2 3	ENO_SCRNS (Implementation-defined): Screen I/O attempted with no screens
2 4	EAGAIN (STREAMS): Resource temporarily unavailable
2 5	ENXIO (STREAMS): No such device or address
2 6	EBADMSG (STREAMS): Not a data message
2 7	EFAULT (AppleTalk): With ATNBPConfirm, everything you asked for is right except the socket number. With ATNBPRegister or ATNBPRegisterByAddr, the zone in which you attempted an explicit registration is not valid.
2 7	EFAULT (BSD Socket, STREAMS): Bad address or the address is not specified or is invalid
2 8	EIO (STREAMS): Physical I/O error
2 9	ENODATA (STREAMS): No data
3 0	ENOSTRMS (STREAMS): Streams not loaded
3 1	EPROTO (BSD Socket): Fatal protocol error
3 2	EPIPE (BSD Socket): Broken pipe
3 3	ESPIPE (BSD Socket): Illegal seek (should be 29)
3 4	ETIME (BSD Socket): ioctl acknowledge timeout
3 5	EWOULDBLOCK (BSD Socket): Operation would block
3 6	EINPROGRESS (BSD Socket): Operation now in progress
3 7	EALREADY (BSD Socket): Operation already in progress
3	ENOTSOCK (BSD Socket): Socket operation on nonsocket

8	
3 9	EDESTADDRREQ (BSD Socket): Destination address required
4 0	EMSGSIZE (AppleTalk): The packet you sent is too large or too small
4 0	EMSGSIZE (BSD Socket): Message is too long
4 1	EPROTOTYPE (BSD Socket): Protocol wrong type for socket
4 2	ENOPROTOOPT (BSD Socket): Protocol not available
4 3	EPROTONOSUPPORT (BSD Socket): Protocol not supported
4 4	ESOCKTNOSUPPORT (BSD Socket): Socket type not supported
4 5	EOPNOTSUPP (BSD Socket): Operation not supported on socket
4 6	EPFNOSUPPORT (BSD Socket): Protocol family not supported
4 7	EAFNOSUPPORT (BSD Socket): Address family not supported by protocol family
4 8	EADDRINUSE (AppleTalk): Another protocol client is using the socket you specified
4 8	EADDRINUSE (BSD Socket): Address already in use
4 9	EADDRNOTAVAIL (AppleTalk): There are no sockets available or the name-address tuple already exists
4 9	EADDRNOTAVAIL (BSD Socket): Cannot assign requested address
5 0	ENETDOWN (AppleTalk): The network on which you attempted to send a datagram is down
5 0	ENETDOWN (BSD Socket): Network is down or TCP/IP NLM was unloaded
5 1	ENETUNREACH (AppleTalk): No router is available
5 1	ENETUNREACH (BSD Socket): Network is unreachable
5 2	ENETRESET (BSD Socket): Network dropped connection on reset
5 3	ECONNABORTED (BSD Socket): Software caused connection abort
5 4	ECONNRESET (BSD Socket): Connection reset by peer

5 5	ENOBUFS (AppleTalk): Insufficient buffer space is available
5 5	ENOBUFS (BSD Socket): No buffer space available
5 6	EISCONN (BSD Socket): Socket is already connected
5 7	ENOTCON (AppleTalk, BSD Socket): The socket you specified has not been opened or connected
5 8	ESHUTDOWN (BSD Socket): Cannot send after socket shutdown
5 9	ETOOMANYREFS (BSD Socket): Too many referenced cannot splice
6 0	ETIMEDOUT (AppleTalk): The function did not return a value within the time interval and the number of retries you specified
6 0	ETIMEDOUT (BSD Socket): Connection timed out
6 1	ECONNREFUSED (BSD Socket): Connection refused

The *errno* global variable is ANSI standard, defined in ERRNO.H. The value of *errno* is set to 0 at program startup, and cannot be set to 0 by any library function. However, the value of *errno* can be set to a nonzero value by any function, whether or not there is an error. The documentation for the functions indicates the use of *errno* to process errors.

> **NOTE:** Because errno can be set when there is no error, do not check errno unless there is an indication of a failure.

Parent Topic: Return Values Overview

IPX, NCP, and Other Values

Hex	Dec	Constant: Description
0xFF 01	-25 5	ERR_OF_SOME_SORT: Many OS errors are originally 0xFF
0xFF 05	-25 1	ERR_REQUEST_UNKNOWN: Corresponds to OS error ERR_UNKNOWN_REQUEST which is 0xFB
0xFF 6A	-15 0	ERR_INSUFFICIENT_MEMORY: Corresponds to OS error ERR_NO_ALLOC_SPACE which is 0x96

File system, IPX, NCP, and other OS services (1-byte, mapped to -1 to -256 when returned as NDS values).

Parent Topic: Return Values

NDS Values

Hex	Dec	Constant: Description
0xF	-001	DSERR_INSUFFICIENT_SPACE
0xFFF89	-119	DSERR_BUFFER_TOO_SMALL: The data to be passed back is too large for the buffer you have declared
0xFFF88	-120	DSERR_VOLUME_FLAG_NOT_SET
0xFFF87	-121	DSERR_NO_ITEMS_FOUND: You made a bindery request for items not found
0xFFF86	-122	DSERR_CONN_ALREADY_TEMPORARY: Attempted to convert a temporary connection into a temporary connection
0xFFF85	-123	DSERR_CONN_ALREADY_LOGGED_IN: Attempted to log in to a server you were already logged into
0xFFF84	-124	DSERR_CONN_NOT_AUTHENTICATED: Attempted connection for call without being authenticated
0xFFF83	-125	DSERR_CONN_NOT_LOGGED_IN: Attempted to log out of a connection you are not logged into
0xFFF82	-126	DSERR_NCP_BOUNDARY_CHECK_FAILED: NCP subfunction size does not match the actual size of data sent
0xFFF81	-127	DSERR_LOCK_WAITING: Time-out occurred before file was locked
0xFFF80	-128	DSERR_LOCK_FAIL: Attempted to open or create a file that is already open
0xFFF7F	-129	DSERR_OUT_OF_HANDLES: No more file handles available; the network file handle table is full
0xFFF7E	-130	DSERR_NO_OPEN_PRIVILEGE: Attempted to open a file without the open privilege
0xFFF7D	-131	DSERR_HARD_IO_ERROR: Hard disk input/output error on a NetWare® volume; a bad sector has been encountered and could be fatal
0xFFF7C	-132	DSERR_NO_CREATE_PRIVILEGE: Attempted to create a file without the create privilege

0xFF F7B	-13 3	DSERR_NO_CREATE_DELETE_PRIV: Attempted to create an already existing file without the create/delete privileges
0xFF F7A	-13 4	DSERR_R_O_CREATE_FILE: Attempted to create a file with the same name as an already existing file with read-only status
0xFF F79	-13 5	DSERR_CREATE_FILE_INVALID_NAME: A file name contains invalid characters
0xFF F78	-13 6	DSERR_INVALID_FILE_HANDLE: Attempted to close or perform I/O on a file with an invalid file handle (i.e. trying to read from a file that has been closed)
0xFF F77	-13 7	DSERR_NO_SEARCH_PRIVILEGE: Attempted to search a directory without search privileges in that directory
0xFF F76	-13 8	DSERR_NO_DELETE_PRIVILEGE: Attempted to delete a file without file deletion privileges in that file's directory
0xFF F75	-13 9	DSERR_NO_RENAME_PRIVILEGE: Attempted to rename a file without renaming privileges in that file's directory
0xFF F74	-14 0	DSERR_NO_SET_PRIVILEGE Attempted to modify a file without attribute modification privileges in that file's directory
0xFF F73	-14 1	DSERR_SOME_FILES_IN_USE: Attempted to delete, rename, or set file attributes using an ambiguous filename while some of the files are in use by another workstation
0xFF F72	-14 2	DSERR_ALL_FILES_IN_USE: Attempted to delete, rename, or set file attributes using a filename when the file or files are in use by another workstation
0xFF F71	-14 3	DSERR_SOME_READ_ONLY: Attempted to open read-only files
0xFF F70	-14 4	DSERR_ALL_READ_ONLY: Attempted to delete, rename, or set file attributes using a filename when all of the files specified have read-only status
0xFF F6F	-14 5	DSERR_SOME_NAMES_EXIST: Attempted to rename files using an ambiguous filename, when one or more files matching the new filename specification already exist
0xFF F6E	-14 6	DSERR_ALL_NAMES_EXIST: Attempted to rename a file using a filename, when all of the files matching the new filename specification already exist
0xFF F6D	-14 7	DSERR_NO_READ_PRIVILEGE: Attempted to read a file without read privileges for that file
0xFF F6C	-14 8	DSERR_NO_WRITE_PRIVILEGE: Attempted to write to a file without file write privileges, or the specified file has

		read-only status
0xFF F6B	-14 9	DSERR_FILE_DETACHED: Attempted to read or write to a detached file
0xFF F6A	-15 0	DSERR_NO_ALLOC_SPACE: Attempted to write to a file server that does not currently have enough free DRAM to process this request
0xFF F6A	-15 0	DSERR_TARGET_NOT_A_SUBDIR
0xFF F69	-15 1	DSERR_NO_SPOOL_SPACE: The network OS has determined that the network disk doesn't have enough space left for spool files
0xFF F68	-15 2	DSERR_INVALID_VOLUME: The network OS cannot find the requested volume in the system definition files
0xFF F67	-15 3	DSERR_DIRECTORY_FULL: Attempted to write to a volume without available directory space
0xFF F66	-15 4	DSERR_RENAME_ACROSS_VOLUME: Attempted to rename a file and move it from its current volume into another volume. The rename command may move the file between directories on the same volume; however, using rename to move a file between volumes is not allowed.
0xFF F65	-15 5	DSERR_BAD_DIR_HANDLE: Attempted to use an invalid directory handle (occurs if the network has been brought down and back up without rebooting the workstation)
0xFF F64	-15 6	DSERR_INVALID_PATH
0xFF F64	-15 6	DSERR_NO_SUCH_EXTENSION: No more trustees are listed in the directory
0xFF F63	-15 7	DSERR_NO_DIR_HANDLES: No more directory handles available. The directory handle table is full. Each user may have up to 255 directory handles.
0xFF F62	-15 8	DSERR_BAD_FILE_NAME: Attempted to create a file using invalid file name characters
0xFF F61	-15 9	DSERR_DIRECTORY_ACTIVE: Attempted to delete a directory that is being used by another workstation
0xFF F60	-16 0	DSERR_DIRECTORY_NOT_EMPTY: Attempted to delete a directory that contains files or other directories
0xFF F5F	-16 1	DSERR_DIRECTORY_IO_ERROR: A non-recoverable I/O error has occurred on the disk in the directory area (occurred in both copies of the directory and is fatal)
0xFF F5E	-16 2	DSERR_IO_LOCKED: Attempted to read a file where data is physically locked
0xFF F5D	-16 3	DSERR_TRANSACTION_RESTARTED

0xFF F5C	-16 4	DSERR_RENAME_DIR_INVALID
0xFF F5B	-16 5	DSERR_INVALID_OPENCREATE_MODE
0xFF F5A	-16 6	DSERR_ALREADY_IN_USE
0xFF F59	-16 7	DSERR_INVALID_RESOURCE_TAG
0xFF F58	-16 8	DSERR_ACCESS_DENIED
0xFF F42	-19 0	DSERR_INVALID_DATA_STREAM
0xFF F41	-19 1	DSERR_INVALID_NAME_SPACE
0xFF F40	-19 2	DSERR_NO_ACCOUNTING_PRIVILEGES
0xFF F3F	-19 3	DSERR_NO_ACCOUNT_BALANCE: Attempted to log in by a bindery object without an accounting balance while accounting was enabled
0xFF F3E	-19 4	DSERR_CREDIT_LIMIT_EXCEEDED: Attempted to log in to account with no credit available
0xFF F3D	-19 5	DSERR_TOO_MANY_HOLDS
0xFF F3C	-19 6	DSERR_ACCOUNTING_DISABLED
0xFF F3B	-19 7	DSERR_LOGIN_LOCKOUT: Attempted to log in after the system had locked the account because of intruder detection
0xFF F3A	-19 8	DSERR_NO_CONSOLE_RIGHTS: Attempted to use console without operator privileges
0xFF F30	-20 8	DSERR_Q_IO_FAILURE
0xFF F2F	-20 9	DSERR_NO_QUEUE
0xFF F2E	-21 0	DSERR_NO_Q_SERVER
0xFF F2D	-21 1	DSERR_NO_Q_RIGHTS
0xFF F2C	-21 2	DSERR_Q_FULL
0xFF F2B	-21 3	DSERR_NO_Q_JOB
0xFF	-21	DSERR_NO_Q_JOB_RIGHTS

F2A	4	
0xFF F2A	-21 4	DSERR_UNENCRYPTED_NOT_ALLOWED
0xFF F29	-21 5	DSERR_Q_IN_SERVICE
0xFF F29	-21 5	DSERR_DUPLICATE_PASSWORD: Attempted to change password to a previously used password when the unique requirement is specified for the account
0xFF F28	-21 6	DSERR_Q_NOT_ACTIVE
0xFF F28	-21 6	DSERR_PASSWORD_TOO_SHORT: Attempted to change password to one with fewer characters than the required minimum specified for the account
0xFF F27	-21 7	DSERR_Q_STN_NOT_SERVER
0xFF F27	-21 7	DSERR_MAXIMUM_LOGINS_EXCEEDED: Attempted to log in using an account that has limits on the number of concurrent connections and that number has been reached
0xFF F26	-21 8	DSERR_Q_HALTED
0xFF F26	-21 8	DSERR_BAD_LOGIN_TIME: Attempted to log in during an unauthorized time of day specified for the account
0xFF F25	-21 9	DSERR_Q_MAX_SERVERS
0xFF F25	-21 9	DSERR_NODE_ADDRESS_VIOLATION: Attempted to log in from an unauthorized station using an account with limits to a specific network and/or station
0xFF F24	-22 0	DSERR_LOG_ACCOUNT_EXPIRED: Attempted to log in using an account that has expired or has been disabled by the Supervisor
0xFF F22	-22 2	DSERR_BAD_PASSWORD: Attempted to log in using an account password that has expired and all grace logins have also expired
0xFF F21	-22 3	DSERR_PASSWORD_EXPIRED: Attempted to log in using an expired account password but the login was allowed because the account had a grace login
0xFF F20	-22 4	DSERR_NO_LOGIN_CONN_AVAILABLE
0xFF F18	-23 2	DSERR_WRITE_TO_GROUP_PROPERTY: Attempted to write a data segment to a group property using the call to write a property value
0xFF F17	-23 3	DSERR_MEMBER_ALREADY_EXISTS: Attempted to redundantly add an object to a group property
0xFF	-23	DSERR_NO_SUCH_MEMBER: Attempted to use an

F16	4	object that is not a member of the defined group property
0xFF F15	-23 5	DSERR_PROPERTY_NOT_GROUP: Attempted to use a non-group property
0xFF F14	-23 6	DSERR_NO_SUCH_VALUE_SET: Attempted to use a nonexistent segment. Segments must be written sequentially when a property is first created, but may be read and written in any order once they exist.
0xFF F13	-23 7	DSERR_PROPERTY_ALREADY_EXISTS
0xFF F12	-23 8	DSERR_OBJECT_ALREADY_EXISTS
0xFF F11	-23 9	DSERR_ILLEGAL_NAME: Request made with an object or property name containing illegal characters (control characters, comma, colon, semicolon, slash, backslash, question mark, asterisk, and tilde)
0xFF F10	-24 0	DSERR_ILLEGAL_WILDCARD: Attempted to use a wildcard character or wild object type in a call where wildcards are not allowed
0xFF F0F	-24 1	DSERR_BINDERY_SECURITY: Attempted to assign a security level of a bindery object or property to be higher than the user's security level (makes the object or property inaccessible to the user)
0xFF F0E	-24 2	DSERR_NO_OBJECT_READ_RIGHTS: Attempted to access object information or scan the object properties using a station without the necessary security to access this information
0xFF F0D	-24 3	DSERR_NO_OBJECT_RENAME_RIGHTS: Attempted to rename an object without the necessary security. Only the Supervisor can rename objects. If the station does not have the proper security to see that the object exists, NCP_NO_SUCH_OBJECT is returned.
0xFF F0C	-24 4	DSERR_NO_OBJECT_DELETE_RIGHTS: Attempted to delete an object using a station without the necessary security to delete the object. Only the Supervisor can delete objects. If the station does not even have the proper security to see that the object exists, NCP_NO_SUCH_OBJECT is returned.
0xFF F0B	-24 5	DSERR_NO_OBJECT_CREATE_RIGHTS: Attempted to create an object using a station without the necessary security to create or change an object (only Supervisors are allowed to create objects)
0xFF F0A	-24 6	DSERR_NO_PROPERTY_DELETE_RIGHTS: Attempted to delete a property using a station without the necessary security privilege to delete a property from the given object. If the station does not have the proper security to see that the property exists, NCP_NO_SUCH_PROPERTY is returned.

0xFFF09	-247	DSERR_NO_PROPERTY_CREATE_RIGHTS: Attempted to create a property using a station without the necessary security to create or change a property for the object
0xFFF08	-248	DSERR_NO_PROPERTY_WRITE_RIGHTS
0xFFF07	-249	DSERR_NO_PROPERTY_READ_RIGHTS: Attempted to read property data using a station without the necessary rights to access the property data
0xFFF06	-250	DSERR_TEMP_REMAP: Attempted to use an unknown path
0xFFF05	-251	DSERR_UNKNOWN_REQUEST: Attempted to use an invalid parameter (drive number, path, or flag value) during a set drive path call
0xFFF05	-251	DSERR_NO_SUCH_PROPERTY: Attempted to use a property that does not exist for the specified object
0xFFF04	-252	DSERR_MESSAGE_QUEUE_FULL
0xFFF04	-252	DSERR_TARGET_ALREADY_HAS_MSG
0xFFF04	-252	DSERR_NO_SUCH_OBJECT: Attempted to use an object that doesn't exist, or the calling station doesn't have the proper security to access the object. The object name and type must both match for the object to be found.
0xFFF03	-253	DSERR_BAD_STATION_NUMBER: Attempted to use a bad (undefined, unavailable, etc.) station number
0xFFF02	-254	DSERR_BINDERY_LOCKED: Attempted to use a bindery that is temporarily locked by the Supervisor
0xFFF02	-254	DSERR_DIR_LOCKED
0xFFF02	-254	DSERR_SPOOL_DELETE
0xFFF02	-254	DSERR_TRUSTEE_NOT_FOUND
0xFFF01	-255	DSERR_HARD_FAILURE
0xFFF01	-255	DSERR_FILE_NAME
0xFFF01	-255	DSERR_FILE_EXISTS
0xFFF01	-255	DSERR_CLOSE_FCB
0xFFF01	-255	DSERR_IO_BOUND: Attempted to write beyond the end of the file or disk

0xFF F01	-25 5	DSERR_NO_SPOOL_FILE
0xFF F01	-25 5	DSERR_BAD_SPOOL_PRINTER: Attempted to use a bad (undefined, unavailable, etc.) printer
0xFF F01	-25 5	DSERR_BAD_PARAMETER
0xFF F01	-25 5	DSERR_NO_FILES_FOUND: No files were found matching the search specification
0xFF F01	-25 5	DSERR_NO_TRUSTEE_CHANGE_PRIV
0xFF F01	-25 5	DSERR_TARGET_NOT_LOGGED_IN
0xFF F01	-25 5	DSERR_TARGET_NOT_ACCEPTING_MSGS
0xFF F01	-25 5	DSERR_MUST_FORCE_DOWN
0xFE D3	-30 1	ERR_NOT_ENOUGH_MEMORY: Client workstation does not have memory to allocate
0xFE D2	-30 2	ERR_BAD_KEY: Trying to pass a bad key parameter for a context call (see NWDSDC.H for the correct parameter).
0xFE D1	-30 3	ERR_BAD_CONTEXT: Trying to pass a bad *context* parameter to a NDS function. Call **NWDSCreateContextHandle** first and use its return value as the *context* parameter.
0xFE D0	-30 4	ERR_BUFFER_FULL: Ran out of room trying to add data to an input buffer
0xFE CF	-30 5	ERR_LIST_EMPTY: Passed an empty list (a null pointer) to **NWDSPutAttrVal** for the SYN_CI_LIST or SYN_OCTET_LIST syntax type
0xFE CE	-30 6	ERR_BAD_SYNTAX: Tried to pass a bad syntax ID
0xFE CD	-30 7	ERR_BUFFER_EMPTY: Tried to get data from an empty buffer
0xFE CC	-30 8	ERR_BAD_VERB: Initialized the buffer with a verb not associated with the API call
0xFE CB	-30 9	ERR_EXPECTED_IDENTIFIER: The name being parsed is not typed
0xFE CA	-31 0	ERR_EXPECTED_EQUALS: An equal sign is expected in the name
0xFE C9	-31 1	ERR_ATTR_TYPE_EXPECTED: The name being parsed is a multi-AVA and must be typed (all AVAs must be either typed or not typed)
0xFE C8	-31 2	ERR_ATTR_TYPE_NOT_EXPECTED: The name being parsed is a multi-AVA and must not be typed (all AVAs

		must be either typed or not typed)
0xFE C7	-31 3	ERR_FILTER_TREE_EMPTY: Tried to delete an empty filter
0xFE C6	-31 4	ERR_INVALID_OBJECT_NAME: (1) Tried to pass a NULL string for object name to the API call or (2) Tried to pass a name containing both leading and trailing dots
0xFE C5	-31 5	ERR_EXPECTED_RDN_DELIMITER: An RDN delimiter (.) was expected and not found during the name parse
0xFE C4	-31 6	ERR_TOO_MANY_TOKENS: Too many trailing delimiter dots in name; only three context levels and four trailing dots in name are permitted
0xFE C3	-31 7	ERR_INCONSISTENT_MULTIAVA: AVA type passed in is wrong
0xFE C2	-31 8	ERR_COUNTRY_NAME_TOO_LONG: Country name identifiers are only allowed one character
0xFE C1	-31 9	ERR_SYSTEM_ERROR: Internal error
0xFE C0	-32 0	ERR_CANT_ADD_ROOT: Tried to restore an object at the root
0xFE BF	-32 1	ERR_UNABLE_TO_ATTACH: Could not connect to the specified server
0xFE BE	-32 2	ERR_INVALID_HANDLE: Invalid iteration handle
0xFE BD	-32 3	ERR_BUFFER_ZERO_LENGTH: Tried to call **NWDSAllocBuf** with a zero-length size
0xFE BC	-32 4	ERR_INVALID_REPLICA_TYPE: Attempted to pass in a replica type that was not a MASTER, SECONDARY, or READONLY
0xFE BB	-32 5	ERR_INVALID_ATTR_SYNTAX: Attempted to pass in an invalid attribute syntax ID
0xFE BA	-32 6	ERR_INVALID_FILTER_SYNTAX: Attempted to pass in an invalid filter syntax ID
0xFE B8	-32 8	ERR_CONTEXT_CREATION: Failed to create a context---usually because unicode tables were not loaded
0xFE B7	-32 9	ERR_INVALID_UNION_TAG: The server returned an *infotype* parameter that did not agree with the *infotype* you passed in
0xFE B6	-33 0	ERR_INVALID_SERVER_RESPONSE: Returned from **NWDSGetSyntaxID**
0xFE B5	-33 1	ERR_NULL_POINTER: Entered a NULL pointer, a real pointer was expected
0xFE B4	-33 2	ERR_NO_SERVER_FOUND
0xFE	-33	ERR_NO_CONNECTION: Internal error---contact

B3	3	Novell® Customer Support
0xFE B2	-334	ERR_RDN_TOO_LONG: The RDN exceeded 128 characters
0xFE B1	-335	ERR_DUPLICATE_TYPE: Multi-AVAs---AVAs cannot contain same type
0xFE B0	-336	ERR_DATA_STORE_FAILURE
0xFE AF	-337	ERR_NOT_LOGGED_IN
0xFE AE	-338	ERR_INVALID_PASSWORD_CHARS: Entered password characters that are invalid
0xFE AD	-339	ERR_FAILED_SERVER_AUTHENT: Attempted server authentication failed
0xFE AC	-340	ERR_TRANSPORT: Transport failed
0xFE AB	-341	ERR_NO_SUCH_SYNTAX: Attempted to use an invalid syntax
0xFE AA	-342	ERR_INVALID_DS_NAME: (1) An empty string passed in for a name or (2) a NULL pointer
0xFE A9	-343	ERR_ATTR_NAME_TOO_LONG: Attribute name exceeded 32 characters
0xFE A8	-344	ERR_INVALID_TDS: Tagged Data Store is either uninitialized or corrupted. Usually, **NWDSLogin** was not called first.
0xFE A7	-345	ERR_INVALID_DS_VERSION
0xFE A6	-346	ERR_UNICODE_TRANSLATION: A unicode translation error returned from one of three functions: **NWDSListPartitions**, **NWDSSyncPartition**, and **NWDSSyncSchema**
0xFE A5	-347	ERR_SCHEMA_NAME_TOO_LONG: Schema name exceeded 32 characters
0xFE A4	-348	ERR_UNICODE_FILE_NOT_FOUND: Unicode file could not be found in the defined search algorithm defined in **NWInitUnicodeTables**
0xFE A3	-349	ERR_UNICODE_ALREADY_LOADED: (DOS-only) **NWInitUnicodeTables** attempted to call unicode tables more than once
0xFE A2	-350	ERR_NOT_CONTEXT_OWNER
0xFE A1	-351	ERR_ATTEMPT_TO_ATHENTICATE_0
0xFE A0	-352	ERR_NO_WRITABLE_REPLICAS: Returned by **NWDSLogout**: On logout, the server logs out of the

		monitor connection. Subsequently the API call tries to find a writable replica of that monitor connection's partition but cannot.
0xFE 9F	-35 3	ERR_DN_TOO_LONG: The name passed in exceeded 256 characters
0xFE 9E	-35 4	ERR_RENAME_NOT_ALLOWED: Attempt to move an object to the same place in the tree that it was in (see **NWDSMoveObject**)
0xFD A7	-60 1	ERR_NO_SUCH_ENTRY: Object passed in could not be found. Check context relative to the passed-in name.
0xFD A6	-60 2	ERR_NO_SUCH_VALUE: The requested attribute value could not be found
0xFD A5	-60 3	ERR_NO_SUCH_ATTRIBUTE: The requested attribute could not be found
0xFD A4	-60 4	ERR_NO_SUCH_CLASS: The class does not exist
0xFD A3	-60 5	ERR_NO_SUCH_PARTITION: The name of the passed-in partition could not be found
0xFD A2	-60 6	ERR_ENTRY_ALREADY_EXISTS: Attempted to add object at the same level in the tree as a pre-existing object of the same name
0xFD A1	-60 7	ERR_NOT_EFFECTIVE_CLASS: Attempted to create an object of a base class that is not an effective class
0xFD A0	-60 8	ERR_ILLEGAL_ATTRIBUTE: Attempted to add an attribute illegal for that object class
0xFD 9F	-60 9	ERR_MISSING_MANDATORY: Attempted to add an object missing a mandatory attribute
0xFD 9E	-61 0	ERR_ILLEGAL_DS_NAME: Server found a problem with a name passed in by the client
0xFD 9D	-61 1	ERR_ILLEGAL_CONTAINMENT: Attempted to add an object violating the schema's containment roles for that type of object
0xFD 9C	-61 2	ERR_CANT_HAVE_MULTIPLE_ VALUES: Attempted to add more than one value to a single-value attribute
0xFD 9B	-61 3	ERR_SYNTAX_VIOLATION
0xFD 9A	-61 4	ERR_DUPLICATE_VALUE: Attempted to add the same attribute-value combination to an object
0xFD 99	-61 5	ERR_ATTRIBUTE_ALREADY_EXISTS: Attempted to add an attribute that already exists
0xFD 98	-61 6	ERR_MAXIMUM_ENTRIES_EXIST: The server has reached the maximum entries in its data base
0xFD 97	-61 7	ERR_DATABASE_FORMAT

0xFD96	-618	ERR_INCONSISTENT_DATABASE: The server has detected an inconsistent database---usually the number of entries in a container does not match the number stored in the containers entry
0xFD95	-619	ERR_INVALID_COMPARISON: Attempted to (1) compare two attributes that are not comparable or (2) use an invalid compare syntax
0xFD94	-620	ERR_COMPARISON_FAILED
0xFD93	-621	ERR_TRANSACTIONS_DISABLED: TTS was disabled for the server on which the NDS operation is taking place (see Enabling TTS).
0xFD92	-622	ERR_INVALID_TRANSPORT: The type of transport passed in to the server is not supported by the server
0xFD91	-623	ERR_SYNTAX_INVALID_IN_NAME
0xFD90	-624	ERR_REPLICA_ALREADY_EXISTS: Name passed in for replica already exists
0xFD8F	-625	ERR_TRANSPORT_FAILURE
0xFD8E	-626	ERR_ALL_REFERRALS_FAILED: Server has no objects matching request and has attempted to contact x other servers to find the object. None of those servers respond.
0xFD8D	-627	ERR_CANT_REMOVE_NAMING_ VALUE: Attempted to delete the naming attribute. Rename the object, then delete the attribute.
0xFD8C	-628	ERR_OBJECT_CLASS_VIOLATION
0xFD8B	-629	ERR_ENTRY_IS_NOT_LEAF: Attempted to delete an entry containing subordinates, which the API call cannot do. First delete the subordinates.
0xFD8A	-630	ERR_DIFFERENT_TREE
0xFD89	-631	ERR_ILLEGAL_REPLICA_TYPE
0xFD88	-632	ERR_SYSTEM_FAILURE
0xFD87	-633	ERR_INVALID_ENTRY_FOR_ROOT
0xFD86	-634	ERR_NO_REFERRALS: Server has no objects that match request and has no referrals on which to search for the object
0xFD85	-635	ERR_REMOTE_FAILURE: Attempt to connect to remote server failed

0xFD 84	-63 6	ERR_UNREACHABLE_SERVER
0xFD 83	-63 7	ERR_PREVIOUS_MOVE_IN_PROGRESS
0xFD 82	-63 8	ERR_NO_CHARACTER_MAPPING
0xFD 81	-63 9	ERR_INCOMPLETE_AUTHENTICATION
0xFD 80	-64 0	ERR_INVALID_CERTIFICATE
0xFD 7F	-64 1	ERR_INVALID_REQUEST: Server did not understand request---for example, verb sent by client could be wrong
0xFD 7E	-64 2	ERR_INVALID_ITERATION: Iteration handle passed in by client is wrong
0xFD 7D	-64 3	ERR_SCHEMA_IS_NONREMOVABLE: Attempted to delete Novell base schema
0xFD 7C	-64 4	ERR_SCHEMA_IS_IN_USE: Attempted to delete a schema entry that still contains an object using that schema entry. Delete that object or attribute, then delete the schema.
0xFD 7B	-64 5	ERR_CLASS_ALREADY_EXISTS: Attempted to add a class already existing in the schema
0xFD 7A	-64 6	ERR_BAD_NAMING_ATTRIBUTES
0xFD 79	-64 7	ERR_NOT_ROOT_PARTITION: Attempted a function required on the root partition and (1) client did not pass in the root partition name or (2) client has attempted to do the function somewhere besides the root partition
0xFD 78	-64 8	ERR_INSUFFICIENT_STACK: Server ran out of stack
0xFD 77	-64 9	ERR_INSUFFICIENT_BUFFER: Server ran out of memory
0xFD 76	-65 0	ERR_AMBIGUOUS_CONTAINMENT: Attempted to create a schema definition for a class containing an ambiguous containment rule
0xFD 75	-65 1	ERR_AMBIGUOUS_NAMING: Attempted to create a schema definition for a class containing an ambiguous containment name
0xFD 74	-65 2	ERR_DUPLICATE_MANDATORY: Attempted to create a schema definition for a class containing a duplicate mandatory name
0xFD 73	-65 3	ERR_DUPLICATE_OPTIONAL: Attempted to create a schema definition for a class containing a duplicate optional name

0xFFFFD72	-654	ERR_PARTITION_BUSY
0xFD71	-655	ERR_MULTIPLE_REPLICAS
0xFD70	-656	ERR_CRUCIAL_REPLICA
0xFD6F	-657	ERR_SCHEMA_SYNC_IN_PROGRESS: Function could not be completed because schema sync was in progress
0xFD6E	-658	ERR_SKULK_IN_PROGRESS: Function could not be completed because skulk was in progress
0xFD6D	-659	ERR_TIME_NOT_SYNCHRONIZED: Servers are not synchronized
0xFD6C	-660	ERR_RECORD_IN_USE
0xFD6B	-661	ERR_DS_VOLUME_NOT_MOUNTED
0xFD6A	-662	ERR_DS_VOLUME_IO_FAILURE
0xFD69	-663	ERR_DS_LOCKED: DS Database is locked; analogous to bindery being locked
0xFD68	-664	ERR_OLD_EPOCH
0xFD67	-665	ERR_NEW_EPOCH
0xFD66	-666	ERR_INCOMPATIBLE_DS_VERSION
0xFD65	-667	ERR_PARTITION_ROOT: Attempted a function that cannot be done on the root partition
0xFD64	-668	ERR_ENTRY_NOT_CONTAINER: Attempted to do an illegal function on a leaf object
0xFD63	-669	ERR_FAILED_AUTHENTICATION: Passed in a bad password
0xFD62	-670	ERR_INVALID_CONTEXT
0xFD61	-671	ERR_NO_SUCH_PARENT
0xFD60	-672	ERR_NO_ACCESS: Client has no rights to do the function returning the error
0xFD5F	-673	ERR_REPLICA_NOT_ON
0xFD5E	-674	ERR_INVALID_NAME_SERVICE

0xFD 5D	-67 5	ERR_INVALID_TASK
0xFD 5C	-67 6	ERR_INVALID_CONN_HANDLE
0xFD 5B	-67 7	ERR_INVALID_IDENTITY
0xFD 5A	-67 8	ERR_DUPLICATE_ACL
0xFD 59	-67 9	ERR_PARTITION_ALREADY_EXISTS
0xFD 58	-68 0	ERR_TRANSPORT_MODIFIED
0xFD 57	-68 1	ERR_ALIAS_OF_AN_ALIAS: Attempted to alias an alias
0xFD 56	-68 2	ERR_AUDITING_FAILED
0xFD 55	-68 3	ERR_INVALID_API_VERSION: Library passed an invalid API version; for example, client may be using an old library
0xFD 54	-68 4	ERR_SECURE_NCP_VIOLATION
0xFD 53	-68 5	ERR_MOVE_IN_PROGRESS
0xFD 52	-68 6	ERR_NOT_LEAF_PARTITION
0xFD 51	-68 7	ERR_CANNOT_ABORT
0xFD 50	-68 8	ERR_CACHE_OVERFLOW
0xFD 4F	-68 9	ERR_INVALID_SUBORDINATE_COUNT
0xFD 4E	-69 0	ERR_INVALID_RDN
0xFD 4D	-69 1	ERR_MOD_TIME_NOT_CURRENT
0xFD 4C	-69 2	ERR_INCORRECT_BASE_CLASS
0xFD 4B	-69 3	ERR_MISSING_REFERENCE
0xFD 4A	-69 4	ERR_LOST_ENTRY
0xFD 49	-69 5	ERR_AGENT_ALREADY_REGISTERED
0xFD	-69	ERR_DS_LOADER_BUSY

48	6	
0xFD47	-697	ERR_DS_CANNOT_RELOAD
0xFD46	-698	ERR_REPLICA_IN_SKULK
0xFD45	-699	ERR_FATAL
0xFD44	-700	ERR_OBSOLETE_API
0xFD43	-701	ERR_SYNCHRONIZATION_DISABLED
0xFD42	-702	ERR_INVALID_PARAMETER
0xFD41	-703	ERR_DUPLICATE_TEMPLATE
0xFD40	-704	ERR_NO_MASTER_REPLICA
0xFD3F	-705	ERR_DUPLICATE_CONTAINMENT
0xFD3E	-706	ERR_NOT_SIBLING
0xFD3D	-707	ERR_INVALID_SIGNATURE
0xFD3C	-708	ERR_INVALID_RESPONSE
0xFD3B	-709	ERR_INSUFFICIENT_SOCKETS
0xFD3A	-710	ERR_DATABASE_READ_FAIL
0xFD39	-711	ERR_INVALID_CODE_PAGE
0xFD38	-712	ERR_INVALID_ESCAPE_CHAR
0xFD37	-713	ERR_INVALID_DELIMITERS
0xFD36	-714	ERR_NOT_IMPLEMENTED
0xFD35	-715	ERR_CHECKSUM_FAILURE
0xFD34	-716	ERR_CHECKSUMMING_NOT_SUPPORTED
0xFD33	-717	ERR_CRC_FAILURE

Parent Topic: Return Values

NetWare Values

Hex	Dec	Constant: Description
0xC8	200	MISSING_EA_KEY (Extended Attribute):
0xC9	201	EA_NOT_FOUND (Extended Attribute):
0xCA	202	INVALID_EA_HANDLE_TYPE (Extended Attribute):
0xCB	203	EA_NO_KEY_NO_DATA (Extended Attribute):
0xCC	204	EA_NUMBER_MISMATCH (Extended Attribute):
0xCD	205	EXTENT_NUMBER_OUT_OF_RANGE (Extended Attribute):
0xCE	206	EA_BAD_DIR_NUM (Extended Attribute):
0xCF	207	INVALID_EA_HANDLE (Extended Attribute):
0xD0	208	EA_POSITION_OUT_OF_RANGE (Extended Attribute):
0xD1	209	EA_ACCESS_DENIED (Extended Attribute):
0xD2	210	DATA_PAGE_ODD_SIZE (Extended Attribute):
0xD3	211	EA_VOLUME_NOT_MOUNTED (Extended Attribute):
0xD4	212	BAD_PAGE_BOUNDARY (Extended Attribute):
0xD5	213	INSPECT_FAILURE (Extended Attribute):
0xD6	214	EA_ALREADY_CLAIMED (Extended Attribute):
0xD7	215	ODD_BUFFER_SIZE (Extended Attribute):
0xD	21	NO_SCORECARDS (Extended Attribute):

8	6	
0xD9	217	BAD_EDS_SIGNATURE (Extended Attribute):
0xDA	218	EA_SPACE_LIMIT (Extended Attribute):
0xDB	219	EA_KEY_CORRUPT (Extended Attribute):
0xDC	220	EA_KEY_LIMIT (Extended Attribute):
0xDD	221	TALLY_CORRUPT (Extended Attribute):
0x00F0	240	ERR_INVALID_SM_ID (Data Migration):
0x00F1	241	ERR_SM_ALREADY_REGISTERED (Data Migration):
0x00F2	242	ERR_SM_CREATE_FAILED (Data Migration):
0x00F3	243	ERR_SM_CLOSE_FAILED (Data Migration):
0x00F4	244	ERR_SM_WRITE_NO_SPACE (Data Migration):
0x00F5	245	ERR_SM_WRITE_IO_ERROR (Data Migration):
0x00F6	246	ERR_SM_READ_IO_ERROR (Data Migration):
0x00F7	247	ERR_SM_OPEN_FAILED (Data Migration):
0x00F8	248	ERR_SM_DELETE_FAILED (Data Migration):

Parent Topic: Return Values

NetWareErrno Values

Hex	Dec	Constant
0x00	0	ERR_TTS_NOT_AVAILABLE
0x01	1	ERR_RECORD_NOT_LOCKED

0x 01	1	ERR_INSUFFICIENT_SPACE
0x 01	1	ERR_STRING_EXCEEDS_LENGTH
0x 01	1	ERR_TTS_AVAILABLE
0x 66	1 0 2	ERR_BAD_THREAD_ID
0x 67	1 0 3	ERR_BAD_PRTY_CLASS
0x 68	1 0 4	ERR_BAD_PRTY_SCOPE
0x 69	1 0 5	ERR_NOT_A_POPUP_SCREEN
0x 6A	1 0 6	ERR_OPEN_SCREEN
0x 6B	1 0 7	ERR_BAD_SHFLAG
0x 6C	1 0 8	ERR_BAD_ACCESS
0x 6D	1 0 9	ERR_BAD_ORIGIN
0x 6E	1 1 0	ERR_BAD_ACTION_CODE
0x 6F	1 1 1	ERR_OUT_OF_TASKS
0x 70	1 1 2	ERR_BAD_QUERY_TYPE
0x 71	1 1 3	ERR_BAD_LIBRARY_HANDLE
0x 72	1 1 4	ERR_STREAMS

0x 81	1 2 7	ERR_NO_MORE_FILE_HANDLES
0x 80	1 2 8	ERR_FILE_IN_USE
0x 80	1 2 8	ERR_LOCK_FAIL
0x 80	1 2 8	ERR_MAPPED_TO_A_LOCAL_DRIVE
0x 82	1 3 0	ERR_NO_OPEN_PRIVILEGE
0x 83	1 3 1	ERR_NETWORK_DISK_IO
0x 84	1 3 2	ERR_NO_CREATE_PRIVILEGE
0x 85	1 3 3	ERR_NO_CREATE_DELETE_PRIVILEGE
0x 86	1 3 4	ERR_R_O_CREATE_FILE
0x 87	1 3 5	ERR_CREATE_FILE_INVALID_NAME
0x 88	1 3 6	ERR_INVALID_FILE_HANDLE
0x 89	1 3 7	ERR_NO_SEARCH_PRIVILEGE
0x 8A	1 3 8	ERR_NO_DELETE_PRIVILEGE
0x 8B	1 3 9	ERR_NO_RENAME_PRIVILEGE
0x 8C	1 4 0	ERR_NO_MODIFY_PRIVILEGE
0x	1	ERR_NO_SET_PRIVILEGE

0x 8C	1 4 0	ERR_NO_SET_PRIVILEGE
0x 8D	1 4 1	ERR_SOME_FILES_IN_USE
0x 8E	1 4 2	ERR_ALL_FILES_IN_USE
0x 8F	1 4 3	ERR_SOME_READ_ONLY
0x 90	1 4 4	ERR_ALL_READ_ONLY
0x 91	1 4 5	ERR_SOME_NAMES_EXIST
0x 92	1 4 6	ERR_ALL_NAMES_EXIST
0x 93	1 4 7	ERR_NO_READ_PRIVILEGE
0x 94	1 4 8	ERR_NO_WRITE_PRIVILEGE_OR_READONLY
0x 95	1 4 9	ERR_FILE_DETACHED
0x 96	1 5 0	ERR_NO_ALLOC_SPACE
0x 96	1 5 0	ERR_SERVER_OUT_OF_MEMORY
0x 96	1 5 0	ERR_TARGET_NOT_A_SUBDIRECTORY
0x 97	1 5 1	ERR_NO_SPOOL_SPACE
0x 98	1 5 2	ERR_INVALID_VOLUME
0x	1	ERR_VOLUME_DOES_NOT_EXIST

98	5 2	
0x 99	1 5 3	ERR_DIRECTORY_FULL
0x 9A	1 5 4	ERR_RENAME_ACROSS_VOLUME
0x 9B	1 5 5	ERR_BAD_DIR_HANDLE
0x 9C	1 5 6	ERR_INVALID_PATH
0x 9C	1 5 6	ERR_NO_SUCH_EXTENSION
0x 9C	1 5 6	ERR_INVALID_PATH
0x 9C	1 5 6	ERR_NO_MORE_TRUSTEES
0x 9D	1 5 7	ERR_NO_DIR_HANDLES
0x 9E	1 5 8	ERR_BAD_FILE_NAME
0x 9F	1 5 9	ERR_DIRECTORY_ACTIVE
0x 9F	1 5 9	ERR_DIRECTORY_IN_USE
0x A0	1 6 0	ERR_DIRECTORY_NOT_EMPTY
0x A1	1 6 1	ERR_DIRECTORY_IO_ERROR
0x A2	1 6 2	ERR_IO_LOCKED
0x A3	1 6	ERR_TRANSACTION_RESTARTED

	3	
0x A4	1 6 4	ERR_RENAME_DIR_INVALID
0x B0	1 7 6	ERR_SEARCH_DRIVE_VECTOR_FULL
0x B1	1 7 7	ERR_DRIVE_DOES_NOT_EXIST
0x B1	1 7 7	ERR_DRIVE_IS_NOT_MAPPED
0x B2	1 7 8	ERR_CANT_MAP_LOCAL_DRIVE
0x B3	1 7 9	ERR_INVALID_MAP_TYPE
0x B4	1 8 0	ERR_INVALID_DRIVE_LETTER
0x B5	1 8 1	ERR_NO_DRIVE_AVAILABLE
0x B6	1 8 2	ERR_WORKSTATION_OUT_OF_MEMORY
0x B7	1 8 3	ERR_NO_SUCH_SEARCH_DRIVE
0x B8	1 8 4	ERR_INVALID_ENVIRON_VARIABLE
0x BE	1 9 0	ERR_INVALID_DATA_STREAM
0x BF	1 9 1	ERR_INVALID_NAME_SPACE
0x C0	1 9 2	ERR_NO_ACCOUNT_PRIVILEGES
0x C0	1 9 2	ERR_NO_ACCOUNTING_PRIVILEGES

	2	
0x C1	1 9 3	ERR_NO_ACCOUNT_BALANCE
0x C2	1 9 4	ERR_CREDIT_LIMIT_EXCEEDED
0x C2	1 9 4	ERR_LOGIN_DENIED_NO_CREDIT
0x C3	1 9 5	ERR_TOO_MANY_HOLDS
0x C4	1 9 6	ERR_ACCOUNTING_DISABLED
0x C5	1 9 7	ERR_LOGIN_LOCKOUT
0x C6	1 9 8	ERR_NO_CONSOLE_OPERATOR_RIGHTS
0x C8	2 0 0	ERR_STRUCT_NOT_FOUND
0x D0	2 0 8	ERR_Q_IO_FAILURE
0x D1	2 0 9	ERR_NO_QUEUE
0x D2	2 1 0	ERR_NO_Q_SERVER
0x D3	2 1 1	ERR_NO_Q_RIGHTS
0x D4	2 1 2	ERR_Q_FULL
0x D5	2 1 3	ERR_NO_Q_JOB
0x D6	2 1 4	ERR_NO_Q_JOB_RIGHTS

0x D6	2 1 4	ERR_UNENCRYPTED_NOT_ALLOWED
0x D7	2 1 5	ERR_DUPLICATE_PASSWORD
0x D7	2 1 5	ERR_Q_IN_SERVICE
0x D8	2 1 6	ERR_PASSWORD_TOO_SHORT
0x D8	2 1 6	ERR_Q_NOT_ACTIVE
0x D9	2 1 7	ERR_MAXIMUM_LOGINS_EXCEEDED
0x D9	2 1 7	ERR_LOGIN_DENIED_NO_CONNECTION
0x D9	2 1 7	ERR_Q_STN_NOT_SERVER
0x D A	2 1 8	ERR_BAD_LOGIN_TIME
0x D A	2 1 8	ERR_Q_HALTED
0x DB	2 1 9	ERR_NODE_ADDRESS_VIOLATION
0x DB	2 1 9	ERR_Q_MAX_SERVERS
0x DC	2 2 0	ERR_LOG_ACCOUNT_EXPIRED
0x DE	2 2 2	ERR_BAD_PASSWORD
0x DE	2 2 2	ERR_PASSWORD_EXPIRED_NO_GRACE

0x DF	2 2 3	ERR_PASSWORD_EXPIRED
0x E8	2 3 2	ERR_NOT_ITEM_PROPERTY
0x E8	2 3 2	ERR_WRITE_TO_GROUP_PROPERTY
0x E9	2 3 3	ERR_MEMBER_ALREADY_EXISTS
0x EA	2 3 4	ERR_NO_SUCH_MEMBER
0x EB	2 3 5	ERR_PROPERTY_NOT_GROUP
0x EB	2 3 5	ERR_NOT_GROUP_PROPERTY
0x EC	2 3 6	ERR_NO_SUCH_SEGMENT
0x EC	2 3 6	ERR_NO_SUCH_VALUE_SET
0x EC	2 3 6	ERR_SPX_CONNECTION_TERMINATED
0x EC	2 3 6	ERR_TERMINATED_BY_REMOTE_PARTNER
0x ED	2 3 7	ERR_PROPERTY_ALREADY_EXISTS
0x ED	2 3 7	ERR_SPX_CONNECTION_FAILED
0x ED	2 3 7	ERR_SPX_TERMINATED_POORLY
0x ED	2 3 7	ERR_SPX_NO_ANSWER_FROM_TARGET
0x	2	ERR_OBJECT_ALREADY_EXISTS

EE	3 8	
0x EE	2 3 8	ERR_SPX_INVALID_CONNECTION
0x EF	2 3 9	ERR_INVALID_NAME
0x EF	2 3 9	ERR_SPX_CONNECTION_TABLE_FULL
0x F0	2 4 0	ERR_IPX_NOT_INSTALLED
0x F0	2 4 0	ERR_ILLEGAL_WILDCARD
0x F0	2 4 0	ERR_WILDCARD_NOT_ALLOWED
0x F0	2 4 0	ERR_SOCKET_NOT_OPEN
0x F1	2 4 1	ERR_BINDERY_SECURITY
0x F1	2 4 1	ERR_INVALID_BINDERY_SECURITY
0x F1	2 4 1	ERR_SOCKET_ALREADY_OPEN
0x F2	2 4 2	ERR_NO_OBJECT_READ_PRIVILEGE
0x F2	2 4 2	ERR_NO_OBJECT_READ_RIGHTS
0x F3	2 4 3	ERR_NO_OBJECT_RENAME_PRIVILEGE
0x F3	2 4 3	ERR_NO_OBJECT_RENAME_RIGHTS
0x F4	2 4	ERR_NO_OBJECT_DELETE_PRIVILEGE

	4	
0x F4	2 4 4	ERR_NO_OBJECT_DELETE_RIGHTS
0x F5	2 4 5	ERR_NO_OBJECT_CREATE_PRIVILEGE
0x F5	2 4 5	ERR_NO_OBJECT_CREATE_RIGHTS
0x F6	2 4 6	ERR_NO_PROPERTY_DELETE_PRIVILEGE
0x F6	2 4 6	ERR_NO_PROPERTY_DELETE_RIGHTS
0x F7	2 4 7	ERR_NO_PROPERTY_CREATE_PRIVILEGE
0x F7	2 4 7	ERR_NO_PROPERTY_CREATE_RIGHTS
0x F8	2 4 8	ERR_ALREADY_ATTACHED_TO_SERVER
0x F8	2 4 8	ERR_NO_PROPERTY_WRITE_PRIVILEGE
0x F8	2 4 8	ERR_NO_PROPERTY_WRITE_RIGHTS
0x F8	2 4 8	ERR_NOT_ATTACHED_TO_SERVER
0x F9	2 4 9	ERR_ECB_CANNOT_BE_CANCELLED
0x F9	2 4 9	ERR_NO_FREE_CONNECTION_SLOTS
0x F9	2 4 9	ERR_NO_PROPERTY_READ_PRIVILEGE
0x F9	2 4	ERR_NO_PROPERTY_READ_RIGHTS

	9	
0x FA	2 5 0	ERR_NO_LOCAL_TARGET_IDENTIFIED
0x FA	2 5 0	ERR_NO_MORE_SERVER_SLOTS
0x FA	2 5 0	ERR_TEMP_REMAP
0x FA	2 5 0	ERR_NO_KNOWN_ROUTE_TO_DESTINATION
0x FB	2 5 1	ERR_INVALID_PARAMETERS
0x FB	2 5 1	ERR_NO_SUCH_PROPERTY
0x FB	2 5 1	ERR_UNKNOWN_REQUEST
0x FC	2 5 2	ERR_EVENT_CANCELLED
0x FC	2 5 2	ERR_INTERNET_PACKET_REQT_CANCELED
0x FC	2 5 2	ERR_MESSAGE_QUEUE_FULL
0x FC	2 5 2	ERR_NO_SUCH_BINDERY_OBJECT
0x FC	2 5 2	ERR_NO_SUCH_OBJECT
0x FC	2 5 2	ERR_REQUEST_CANCELLED
0x FC	2 5 2	ERR_SPX_COMMAND_CANCELLED
0x FC	2 5 2	ERR_SPX_SOCKET_CLOSED

0x FC	2 5 2	ERR_UNKNOWN_FILE_SERVER
0x FC	2 5 2	ERR_TARGET_ALREADY_HAS_MESSAGE
0x FD	2 5 3	ERR_BAD_SERIAL_NUMBER
0x FD	2 5 3	ERR_INVALID_PACKET_LENGTH
0x FD	2 5 3	ERR_PACKET_OVERFLOW
0x FD	2 5 3	ERR_TTS_DISABLED
0x FD	2 5 3	ERR_FIELD_ALREADY_LOCKED
0x FD	2 5 3	ERR_FSCOPY_DIFFERENT_NETWORKS
0x FD	2 5 3	ERR_BAD_STATION_NUMBER
0x FE	2 5 4	ERR_BAD_PACKET
0x FE	2 5 4	ERR_SPX-MALFORMED_PACKET
0x FE	2 5 4	ERR_BINDERY_LOCKED
0x FE	2 5 4	ERR_DOS_ACCESS_DENIED
0x FE	2 5 4	ERR_DOS_NO_SEARCH_RIGHTS
0x FE	2 5 4	ERR_IMPLICIT_TRANSACTION_ACTIVE

0x FE	2 5 4	ERR_INCORRECT_ACCESS_PRIVILEGES
0x FE	2 5 4	ERR_INVALID_SEMAPHORE_NAME_LENGTH
0x FE	2 5 4	ERR_IO_FAILURE
0x FE	2 5 4	ERR_PACKET_NOT_DELIVERABLE
0x FE	2 5 4	ERR_SPOOL_DIRECTORY_ERROR
0x FE	2 5 4	ERR_SUPERVISOR_HAS_DISABLED_LOGIN
0x FE	2 5 4	ERR_TRANSACTION_ENDS_RECORDS_LOCKED
0x FE	2 5 4	ERR_SERVER_BINDERY_LOCKED
0x FE	2 5 4	ERR_TIMEOUT_FAILURE
0x FE	2 5 4	ERR_TRUSTEE_NOT_FOUND
0x FE	2 5 4	ERR_SOCKET_TABLE_FULL
0x FF	2 5 5	ERR_BAD_PARAMETER
0x FF	2 5 5	ERR_BAD_SPOOL_PRINTER
0x FF	2 5 5	ERR_RECORD_ALREADY_LOCKED
0x FF	2 5 5	ERR_BAD_RECORD_OFFSET
0x	2	ERR_BINDERY_FAILURE

FF	5 5	
0x FF	2 5 5	ERR_ECB_NOT_IN_USE
0x FF	2 5 5	ERR_FAILURE
0x FF	2 5 5	ERR_FILE_EXTENSION_ERROR
0x FF	2 5 5	ERR_HARD_FAILURE
0x FF	2 5 5	ERR_INVALID_INITIAL_SEMAPHORE_VALUE
0x FF	2 5 5	ERR_INVALID_SEMAPHORE_HANDLE
0x FF	2 5 5	ERR_DOS_FILE_NOT_FOUND
0x FF	2 5 5	ERR_EXPLICIT_TRANSACTION_ACTIVE
0x FF	2 5 5	ERR_FILE_NOT_OPEN
0x FF	2 5 5	ERR_NO_EXPLICIT_TRANSACTION_ACTIVE
0x FF	2 5 5	ERR_NO_FILES_FOUND
0x FF	2 5 5	ERR_NO_RECORD_FOUND
0x FF	2 5 5	ERR_NO_RESPONSE_FROM_SERVER
0x FF	2 5 5	ERR_NO_SPOOL_FILE
0x FF	2 5	ERR_NO_SUCH_OBJECT_OR_BAD_PASSWORD

	5	
0x FF	2 5 5	ERR_OPEN_FILES
0x FF	2 5 5	ERR_PATH_ALREADY_EXISTS
0x FF	2 5 5	ERR_PATH_NOT_LOCATABLE
0x FF	2 5 5	ERR_QUEUE_FULL
0x FF	2 5 5	ERR_REQUEST_NOT_OUTSTANDING
0x FF	2 5 5	ERR_SOCKET_CLOSED
0x FF	2 5 5	ERR_SPX_IS_INSTALLED
0x FF	2 5 5	ERR_SPX_SOCKET_NOT_OPENED
0x FF	2 5 5	ERR_TARGET_NOT_LOGGED_IN
0x FF	2 5 5	ERR_TARGET_NOT_ACCEPTING_MESSAGES
0x FF	2 5 5	ERR_TRANSACTION_NOT_YET_WRITTEN
0x FF	2 5 5	ERR_NO_TRUSTEE_CHANGE_PRIVILEGE

The nwerrno.h file defines the NetWare errno constants. It provides the symbolic names for the error codes that can be placed in *NetWareErrno*. The global variable *NetWareErrno* contains the last error that was detected. To be able to use the symbolic names in your code, you must include nwerrno.h.

Also see spawnlp/spawnvp Values.

Parent Topic: Return Values Overview

Print Server Values

Hex	Dec	Constant: Description
0x0000	0	NWPSE_SUCCESSFUL
0x0040	64	NWPSE_NO_AVAILABLE_SPX_CONNECTI
0x0041	65	NWPSE_SPX_NOT_INITIALIZED
0x0042	66	NWPSE_NO_SUCH_PSERVER
0x0043	67	NWPSE_UNABLE_TO_GET_SERVER_ADDR
0x0044	68	NWPSE_UNABLE_TO_CONNECT_TO_SERV
0x0045	69	NWPSE_NO_AVAILABLE_IPX_SOCKETS
0x0046	70	NWPSE_ALREADY_ATTACH_TO_A_PRINT
0x0047	71	NWPSE_IPX_NOT_INITIALIZED
0x00ED	237	NWPSE_CONNECTION_TERMINATED
0x0101	257	NWPSE_TOO_MANY_NW_SERVERS: The print server exceeded the maximum number of NetWare servers it is configured for. In NetWare 3.11, the maximum number of servers the print server can be configured for is 8.
0x0102	258	NWPSE_UNKNOWN_NW_SERVER: Either the NetWare server name does not exist, or the NetWare server the print server is attached to cannot see the other NetWare server.
0x0103	259	NWPSE_BINDERY_LOCKED: A call made by the print server to the bindery found the bindery locked. See your network Supervisor.
0x0104	260	NWPSE_NW_SERVER_MAXED_OUT: When the print server tried to log in to the NetWare server, it exceeded the maximum number of users that can log in at the same time. The number of users allowed depends on the NetWare version.
0x01	2	NWPSE_NO_RESPONSE: The NetWare server the print

05	6 1	server is attempting to log in to is not responding.
0x01 06	2 6 2	NWPSE_ALREADY_ATTACHED: The print server login to the NetWare server failed because the print server was already logged into it.
0x01 07	2 6 3	NWPSE_CANT_ATTACH: This is a generic return code for unknown errors that occur when the print server is trying to attach to the NetWare server.
0x01 08	2 6 4	NWPSE_NO_ACCOUNT_BALANCE: Although Accounting was activated, no account property was created for the print server. See your network Supervisor.
0x01 09	2 6 5	NWPSE_NO_CREDIT_LEFT: The NetWare server sends this message when the print server cannot log in because the account balance has been exceeded.
0x01 0A	2 6 6	NWPSE_INTRUDER_DETECTION_LOCK: The print server locks up when the intruder detection lock is set and the user exceeds the number of login tries.
0x01 0B	2 6 7	NWPSE_TOO_MANY_CONNECTIONS: The print server login to the NetWare server failed because it did not have a connection. This may happen if there are no available connections on the server. Check the number of connections and retry.
0x01 0C	2 6 8	NWPSE_ACCOUNT_DISABLED: Although an account exists, it has been disabled. See your network Supervisor.
0x01 0D	2 6 9	NWPSE_UNAUTHORIZED_TIME: The times during which the print server can log in to the NetWare server have been restricted.
0x01 0E	2 7 0	NWPSE_UNAUTHORIZED_STATION: The locations from which the print server can log in to the NetWare server have been restricted.
0x01 0F	2 7 1	NWPSE_NO_MORE_GRACE: The print server has reached the maximum number of grace logins allowed to change its password. See your network Supervisor.
0x01 10	2 7 2	NWPSE_LOGIN_DISABLED: The network Supervisor disabled all print servers from logging in to the NetWare server.
0x01 11	2 7 3	NWPSE_ILLEGAL_ACCT_NAME: The print server name is not a valid account name.
0x01 12	2 7 4	NWPSE_PASSWORD_HAS_EXPIRED: The print server's password needs to be changed.
0x01 13	2 7 5	NWPSE_ACCESS_DENIED: The print server is not able to log in to the specified NetWare server because either the print server name is invalid, or the password is invalid.

0x01 14	2 7 6	NWPSE_CANT_LOGIN: This is a generic return code for unknown errors that occur when the print server is trying to log in to the NetWare server.
0x01 15	2 7 7	NWPSE_PRINTER_ALREADY_INSTALLED: To be determined.
0x01 16	2 7 8	NWPSE_CANT_OPEN_CONFIG_FILE: To be determined.
0x01 17	2 7 9	NWPSE_CANT_READ_CONFIG_FILE: To be determined.
0x01 18	2 8 0	NWPSE_UNKNOWN_PRINTER_TYPE: The printer type you used is either not listed in the print server configuration files, or is defined elsewhere.
0x01 19	2 8 1	NWPSE_MAX_FORMS_EXCEDED
0x01 1A	2 8 2	NWPSE_NO_SUCH_JOB
0x01 1B	2 8 3	NWPSE_UNKNOWN_PRINTER_ERROR
0x01 1C	2 8 4	NWPSE_COMMUNICATIONS_ERROR
0x01 1D	2 8 5	NWPSE_MODE_NOT_SUPPORTED
0x02 00	5 1 2	NWPSE_NO_SUCH_QUEUE: The queue the print server is trying to attach to cannot be located. Verify the queue name.
0x02 01	5 1 3	NWPSE_NOT_AUTHORIZED_FOR_QUEUE: The print server is not authorized to service the queue it needs to attach to.
0x02 02	5 1 4	NWPSE_QUEUE_HALTED: The queue the print server is trying to attach to was previously placed on hold.
0x02 03	5 1 5	NWPSE_UNABLE_TO_ATTACH_TO_QUEUE: This is a generic return code for unknown errors occurring when the print server is trying to attach to a queue.
0x02 04	5 1 6	NWPSE_TOO_MANY_QUEUE_SERVERS: The number of queue servers that can attach to a queue was exceeded.

0x0300	768	NWPSE_INVALID_REQUEST: The request you made is unrecognizable.
0x0301	769	NWPSE_NOT_ENOUGH_MEMORY: The print server could not allocate sufficient memory to complete your request.
0x0302	770	NWPSE_NO_SUCH_PRINTER
0x0303	771	NWPSE_INVALID_PARAMETER: The function you called contains unrecognizable parameters.
0x0304	772	NWPSE_PRINTER_BUSY: You must pause the printer before giving this command, or wait until the job completes.
0x0305	773	NWPSE_CANT_DETACH_PRIMARY_SERVER: You can detach the print server from all NetWare servers, except the primary server.
0x0306	774	NWPSE_GOING_DOWN: The print server is going down. All commands will be ignored except for Cancel Down.
0x0307	775	NWPSE_NOT_CONNECTED: The command could not be completed because the printer is not connected.
0x0308	776	NWPSE_ALREADY_IN_USE: The slot number you specified for the remote printer is already in use. You cannot attach the remote printer to the print server using this number.
0x0309	777	NWPSE_NO_JOB_ACTIVE: There were no active jobs when the command was issued.
0x030A	778	NWPSE_NOT_ATTACHED_TO_SERVER: The print server is not attached to the specified NetWare server.
0x030B	779	NWPSE_ALREADY_IN_LIST: Either the queue you tried to attach to is already on the list, or the user you tried to add to the notify list is already on the list.
0x030C	780	NWPSE_DOWN: The print server is down.
0x030D	781	NWPSE_NOT_IN_LIST: Either the queue you tried to change is not on the list, or the *notify user* you tried to change is not on the list.
0x030E	782	NWPSE_NO_RIGHTS: You have insufficient rights to give this command.

0x03 0F	7 8 3	NWPSE_CMD_NOT_SUPPORTED
0x03 10	7 8 4	NWPSE_PASSWORD_UNAVAILABLE
0x03 11	7 8 5	NWPSE_ILLEGAL_NOTIFY_OBJECT
0x04 00	1 0 2 4	NWPSE_UNABLE_TO_VERIFY_IDENTITY: The print server cannot verify the user name used in the login to the print server.
0x04 01	1 0 2 5	NWPSE_NOT_REMOTE_PRINTER: The command you sent applies only to remote printers.
0x04 02	1 0 2 6	NWPSE_UNAUTHORIZED_PRINTER
0x05 00	1 2 8 0	NWPSE_NOT_READY
0x05 01	1 2 8 1	NWPSE_INVALID_PROCESS
0x05 02	1 2 8 2	NWPSE_INVALID_JOB_ID
0x05 03	1 2 8 3	NWPSE_NO_MSG_FILE
0x05 04	1 2 8 4	NWPSE_JOB_REQUEST_ACTIVE
0x77 60	3 0 5 6 0	NWPSE_END_OF_LIST: No other items are left in the GetFirst/GetNext list.
0x77	3	NWPSE_NO_SUCH_LIST_ENTRY: The Verify call did not

61	0 5 6 1	succeed.
0x77 62	3 0 5 6 2	NWPSE_END_OF_ATTR_LIST: No other attributes are left in the object list.
0x77 63	3 0 5 6 3	NWPSE_WRONG_CLASS_LIST_ENTRY: For NDS only. This error returns when the Verify call finds the common name, but the object base class does not match what you were verifying.
0x77 64	3 0 5 6 4	NWPSE_NO_SUCH_PRINT_SERVER
0x77 70	3 0 5 7 6	NWPSE_BAD_VERSION: The version of the database you accessed was the wrong one. See your network Supervisor to correct the version.
0x77 71	3 0 5 7 7	NWPSE_END_SCAN: You reached the end of the scan list. There are no more entries.
0x77 72	3 0 5 7 8	NWPSE_ERROR_EXPANDING_DB: You cannot add any more information because there is no more disk space in the network drive. Free up some space or get more allocated.
0x77 73	3 0 5 7 9	NWPSE_ERROR_GETTING_DEFAULT: The default was specified, but there is an error in the database.
0x77 74	3 0 5 8 0	NWPSE_ERROR_OPENING_DB: Either the libraries cannot find the database, or you are not authorized to use the database. See the network Supervisor.
0x77 75	3 0 5 8	NWPSE_ERROR_READING_DB: Either you are not authorized to use the database, or there is a possible database problem. See the network Supervisor.

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0x77 76	3 0 5 8 2	NWPSE_PRINTCON_DB_FULL
0x77 77	3 0 5 8 3	NWPSE_ERROR_WRITING_DB: Either you are out of disk space, or you are not authorized to write to the database. Free up some space or see the network Supervisor.
0x77 79	3 0 5 8 5	NWPSE_INTERNAL_ERROR: There is a problem with the database or the application. Contact the network Supervisor or application vendor.
0x77 7A	3 0 5 8 6	NWPSE_JOB_NOT_FOUND: You requested information on an item that was not in the database. The item may have been deleted already or was never part of the list.
0x77 7B	3 0 5 8 7	NWPSE_NO_DEFAULT_SPECIFIED: The PrintCon default entry has not been defined. Either you or the network Supervisor must define it using **NWPSSetDefaultJob**.
0x77 7C	3 0 5 8 8	NWPSE_OUT_OF_MEMORY: Your workstation is out of RAM. Increase RAM.
0x77 7D	3 0 5 8 9	NWPSE_ERROR_SEEKING_DB: Seek failed inside the Database. See the network Supervisor.
0x77 7E	3 0 5 9 0	NWPSE_NO_ACCESS_RIGHTS_DB: The database could not be opened because you have no rights. See the network Supervisor.
0x77 7F	3 0 5 9 1	NWPSE_UNICODE_TBL_NOT_LOADED
0x77 90	3 0	NWPSE_ERROR_OPENING_IMP: The import/export file could not be opened.

90	0 6 0 8	could not be opened.
0x77 91	3 0 6 0 9	NWPSE_ERROR_READING_IMP: The import/export file could not be read.
0x77 92	3 0 6 1 0	NWPSE_ERROR_WRITING_IMP: The import/export file could not be written.
0x77 93	3 0 6 1 1	NWPSE_NO_ACCESS_RIGHTS_IMP: The import/export file could not be opened because you have no rights. See the network Supervisor.
0x77 94	3 0 6 1 2	NWPSE_FILE_ALREADY_EXISTS
0x77 A0	3 0 6 2 4	NWPSE_CONTEXT_CANNOT_BE_ROOT: The context for the PrintDef database cannot be at the root.
0x77 A1	3 0 6 2 5	NWPSE_CONTEXT_CONTAINS_NO_ ORGS: The context for the PrintDef database was expected to have OU or O levels, but none were found.
0x77 A2	3 0 6 2 6	NWPSE_HASHED_STRING_NOT_FOUND
0x77 A3	3 0 6 2 7	NWPSE_CANT_CHANGE_MODE
0x77 B0	3 0 6 4 0	NWPSE_UNABLE_TO_GET_SOCKET_RTAG

0x77 B1	3 0 6 4 1	NWPSE_DUPLICATE_THREAD_REG
0x77 B2	3 0 6 4 2	NWPSE_UNREGISTERED_THREAD
0x77 B3	3 0 6 4 3	NWPSE_UNREGISTERED_NLM

Parent Topic: Return Values

Requester/Shell Values

Hex		Constant: Description
0x88 00	0	SHELL_ERROR
0x88 00	0	VLM_ERROR
0x88 00	0	ALREADY_ATTACHED: Attempted to attach to a server with a valid, existing connection.
0x88 00	0	NWE_ALREADY_ATTACHED: Attempted to attach to a server with a valid, existing connection.
0x88 01	1	INVALID_CONNECTION: Request attempted with invalid or nonattached connection handle.
0x88 01	1	NWE_CONN_INVALID: Request attempted with invalid or nonattached connection handle.
0x88 02	2	DRIVE_IN_USE: OS/2 only. (NOT USED).
0x88 02	2	NWE_DRIVE_IN_USE: OS/2 only. (NOT USED).
0x88 03	3	CANT_ADD_CDS: Attempted to map a drive but was unable to add a new current directory structure.
0x88 03	3	DRIVE_CANNOT_MAP

0x88 03	3	NWE_DRIVE_CANNOT_MAP: Attempted to map a drive, but was unable to add new current directory structure.
0x88 04	4	BAD_DRIVE_BASE: Attempted to map a drive using an invalid path specification.
0x88 04	4	NWE_DRIVE_BAD_PATH: Attempted to map a drive using an invalid path specification.
0x88 05	5	NET_READ_ERROR: Attempt to receive from the selected transport failed.
0x88 05	5	NET_RECV_ERROR: Attempt to receive from the selected transport failed.
0x88 05	5	NWE_NET_RECEIVE: Attempt to receive from the selected transport failed.
0x88 06	6	UNKNOWN_NET_ERROR: Network send attempted with a nonspecific network error.
0x88 06	6	NWE_NET_UNKNOWN: Network send attempted with a nonspecific network error.
0x88 07	7	SERVER_INVALID_SLOT: Attempted a server request using an invalid server connection slot.
0x88 07	7	BAD_SERVER_SLOT: Attempted a server request using an invalid server connection slot.
0x88 07	7	NWE_SERVER_BAD_SLOT: Attempted a server request using an invalid server connection slot.
0x88 08	8	NO_SERVER_SLOTS: Attempted to attach to a server with no connection slots available
0x88 08	8	NWE_SERVER_NO_SLOTS: Attempted to attach to a server with no connection slots available
0x88 09	9	NET_WRITE_ERROR: Attempt to write on the selected transport failed.
0x88 09	9	CONNECTION_IN_ERROR_STATE: Client-32
0x88 09	9	NET_SEND_ERROR: Attempt to send on the selected transport failed.
0x88 09	9	NWE_NET_SEND: Attempt to send on the selected transport failed.
0x88 0A	1 0	SERVER_NO_ROUTE: Attempted to find a route to a server that does not exist.
0x88 0A	1 0	NWE_SERVER_NO_ROUTE: Attempted to find a route to a server that does not exist.
0x88 0B	1 1	BAD_LOCAL_TARGET: OS/2 only.
0x88 0B	1 1	NWE_BAD_LOCAL_TARGET: OS/2 only.
0x88	1	TOO_MANY_REQ_FRAGS: Attempted a request with too

0C	2	many request fragments specified.
0x88 0C	1 2	NWE_REQ_TOO_MANY_REQ_FRAGS: Attempted a request with too many request fragments specified.
0x88 0D	1 3	CONNECT_LIST_OVERFLOW: Too many connections to fit in the list size specified.
0x88 0D	1 3	NWE_CONN_LIST_OVERFLOW: Too many connections to fit in the list size specified.
0x88 0E	1 4	BUFFER_OVERFLOW: Attempted to receive more data than the reply buffer had room for.
0x88 0E	1 4	NWE_BUFFER_OVERFLOW: Attempted to receive more data than the reply buffer had room for.
0x88 0F	1 5	NO_CONN_TO_SERVER: Attempted to get a connection for a server not connected.
0x88 0F	1 5	NO_CONNECTION_TO_SERVER: Attempted to get a connection for a server not connected.
0x88 0F	1 5	NWE_SERVER_NO_CONN: Attempted to get a connection for a server not connected.
0x88 10	1 6	NO_ROUTER_FOUND: OS/2 only.
0x88 10	1 6	NWE_NO_ROUTER_FOUND: OS/2 only.
0x88 11	1 7	BAD_FUNC_ERROR: Attempted function call to non-existent or illegal function.
0x88 11	1 7	INVALID_SHELL_CALL: Attempted function call to non-existent or illegal function.
0x88 11	1 7	NWE_FUNCTION_INVALID: Attempted function call to non-existent or illegal function.
0x88 12	1 8	SCAN_COMPLETE
0x88 12	1 8	LIP_RESIZE_ERROR: Client-32
0x88 12	1 8	NWE_SCAN_COMPLETE
0x88 13	1 9	UNSUPPORTED_NAME_FORMAT_TYPE
0x88 13	1 9	NWE_UNSUPPORTED_NAME_FORMAT_TYP
0x88 13	1 9	INVALID_DIR_HANDLE: Client-32
0x88 14	2 0	HANDLE_ALREADY_LICENSED
0x88 14	2 0	NWE_HANDLE_ALREADY_LICENSED

0x88 14	2 0	OUT_OF_CLIENT_MEMORY: Client-32
0x88 15	2 1	HANDLE_ALREADY_UNLICENSED
0x88 15	2 1	NWE_HANDLE_ALREADY_UNLICENSED
0x88 15	2 1	PATH_NOT_OURS: Client-32
0x88 16	2 2	INVALID_NCP_PACKET_LENGTH
0x88 16	2 2	NWE_INVALID_NCP_PACKET_LENGTH
0x88 16	2 2	PATH_IS_PRINT_DEVICE: Client-32
0x88 17	2 3	SETTING_UP_TIMEOUT
0x88 17	2 3	NWE_SETTING_UP_TIMEOUT
0x88 17	2 3	PATH_IS_EXCLUDED_DEVICE: Client-32
0x88 18	2 4	SETTING_SIGNALS
0x88 18	2 4	NWE_SETTING_SIGNALS
0x88 18	2 4	PATH_IS_INVALID: Client-32
0x88 19	2 5	SERVER_CONNECTION_LOST
0x88 19	2 5	NWE_SERVER_CONNECTION_LOST
0x88 19	2 5	NOT_SAME_DEVICE: Client-32
0x88 1A	2 6	OUT_OF_HEAP_SPACE
0x88 1A	2 6	NWE_OUT_OF_HEAP_SPACE
0x88 1B	2 7	INVALID_SERVICE_REQUEST
0x88 1B	2 7	NWE_INVALID_SERVICE_REQUEST
0x88 1B	2 7	INVALID_SEARCH_HANDLE: Client-32
0x88	2	INVALID_TASK_NUMBER

1C	8	
0x88 1C	2 8	NWE_INVALID_TASK_NUMBER
0x88 1C	2 8	INVALID_DEVICE_HANDLE: Client-32
0x88 1D	2 9	INVALID_MESSAGE_LENGTH
0x88 1D	2 9	NWE_INVALID_MESSAGE_LENGTH
0x88 1D	2 9	INVALID_SEM_HANDLE: Client-32
0x88 1E	3 0	EA_SCAN_DONE
0x88 1E	3 0	NWE_EA_SCAN_DONE
0x88 1E	3 0	INVALID_CFG_HANDLE: Client-32
0x88 1F	3 1	BAD_CONNECTION_NUMBER
0x88 1F	3 1	NWE_BAD_CONNECTION_NUMBER
0x88 1F	3 1	INVALID_MOD_HANDLE
0x88 20	3 2	ASYN_FIRST_PASS
0x88 20	3 2	NWE_MULT_TREES_NOT_SUPPORTED: Attempted to open a connection to a DS tree other than the default tree.
0x88 21	3 3	INVALID_DEVICE_INDEX
0x88 22	3 4	INVALID_CONN_HANDLE
0x88 23	3 5	INVALID_QUEUE_ID
0x88 24	3 6	INVALID_PDEVICE_HANDLE
0x88 25	3 7	INVALID_JOB_HANDLE
0x88 26	3 8	INVALID_ELEMENT_ID
0x88 27	3 9	ALIAS_NOT_FOUND
0x88 28	4 0	RESOURCE_SUSPENDED

0x88 29	4 1	INVALID_QUEUE_SPECIFIED
0x88 2A	4 2	DEVICE_ALREADY_OPEN
0x88 2B	4 3	JOB_ALREADY_OPEN
0x88 2C	4 4	QUEUE_NAME_ID_MISMATCH
0x88 2D	4 5	JOB_ALREADY_STARTED
0x88 2E	4 6	SPECT_DAA_TYPE_NOT_SUPPORTED
0x88 2F	4 7	NOT_SAME_CONNECTION
0x88 30	4 8	NOT_SAME_CONNECTION: Attempted an Internal server request across different server connections.
0x88 30	4 8	NWE_CONN_NOT_SAME: Attempted an Internal server request across different server connections.
0x88 31	4 9	PRIMARY_CONNECTION_NOT_ SET: Attempted to retrieve a default connection with no primary connection set.
0x88 31	4 9	NO_PRIMARY_SET: Attempted to retrieve a default connection with no primary connection set.
0x88 31	4 9	NWE_CONN_PRIMARY_NOT_SET: Attempted to retrieve a default connection with no primary connection set.
0x88 32	5 0	NO_CAPTURE_SET: Requested capture information on a port with no capture set.
0x88 32	5 0	NO_CAPTURE_IN_PROGRESS: Requested capture information on a port with no capture in progress.
0x88 32	5 0	NWE_PRN_CAPTURE_NOT_IN_PROGRESS: Requested capture information on a port with no capture in progress.
0x88 32	5 0	KEYWORD_NOT_FOUND: Client-32
0x88 32	5 0	PRINT_CAPTURE_NOT_IN_PROGRESS: Client-32
0x88 33	5 1	BAD_BUFFER_LENGTH: *len* requested on a GetDNC or SetDNC was too large.
0x88 33	5 1	INVALID_BUFFER_LENGTH: *len* requested on a GetDNC or SetDNC was too large.
0x88 33	5 1	NWE_BUFFER_INVALID_LEN: *len* requested on a GetDNC or SetDNC was too large.
0x88 34	5 2	NO_USER_NAME

0x88 34	5 2	NWE_USER_NO_NAME
0x88 35	5 3	NO_NETWARE_PRINT_SPOOLER: Capture requested without local print spooler installed.
0x88 35	5 3	NWE_PRN_NO_LOCAL_SPOOLER: Capture requested without local print spooler installed.
0x88 36	5 4	INVALID_PARAMETER: Attempted function call with an invalid function parameter specified.
0x88 36	5 4	NWE_PARAM_INVALID: Attempted function call with an invalid function parameter specified.
0x88 37	5 5	CONFIG_FILE_OPEN_FAILED: OS/2 only.
0x88 37	5 5	NWE_CFG_OPEN_FAILED: OS/2 only.
0x88 38	5 6	NO_CONFIG_FILE: OS/2 only.
0x88 38	5 6	NWE_CFG_NO_FILE: OS/2 only.
0x88 39	5 7	CONFIG_FILE_READ_FAILED: OS/2 only.
0x88 39	5 7	NWE_CFG_READ_FAILED: OS/2 only.
0x88 3A	5 8	CONFIG_LINE_TOO_LONG: OS/2 only.
0x88 3A	5 8	NWE_CFG_LINE_TOO_LONG: OS/2 only.
0x88 3B	5 9	CONFIG_LINES_IGNORED: OS/2 only.
0x88 3B	5 9	NWE_CFG_LINES_IGNORED: OS/2 only.
0x88 3C	6 0	NOT_MY_RESOURCE: Attempted a request using a foreign parameter.
0x88 3C	6 0	NWE_RESOURCE_NOT_OWNED: Attempted a request using a foreign parameter.
0x88 3D	6 1	DAEMON_INSTALLED: OS/2 only.
0x88 3D	6 1	NWE_DAEMON_INSTALLED: OS/2 only.
0x88 3E	6 2	SPOOLER_INSTALLED: Attempted to load a previously installed print spooler.
0x88 3E	6 2	NWE_PRN_SPOOLER_INSTALLED: Attempted to load a previously installed print spooler.
0x88	6	CONN_TABLE_FULL: Tried to allocate a connection

3F	3	handle with no local connection table entries available.
0x88 3F	6 3	NWE_CONN_TABLE_FULL: Tried to allocate a connection handle with no local connection table entries available.
0x88 3F	6 3	CONNECTION_TABLE_FULL: Tried to allocate a connection handle with no local connection table entries available.
0x88 40	6 4	CONFIG_SECTION_NOT_FOUND: OS/2 only.
0x88 40	6 4	NWE_CFG_SECTION_NOT_FOUND: OS/2 only.
0x88 41	6 5	BAD_TRAN_TYPE: Attempted a function call on a connection with an invalid transport selected.
0x88 41	6 5	INVALID_TRANSPORT_TYPE: Attempted function on a connection with an invalid transport selected.
0x88 41	6 5	NWE_TRAN_INVALID_TYPE: Attempted function on a connection with an invalid transport selected.
0x88 42	6 6	TDS_TAG_IN_USE: OS/2 only.
0x88 42	6 6	NWE_TDS_TAG_IN_USE: OS/2 only.
0x88 43	6 7	TDS_OUT_OF_MEMORY: OS/2 only.
0x88 43	6 7	NWE_TDS_OUT_OF_MEMORY: OS/2 only.
0x88 44	6 8	TDS_INVALID_TAG: Attempted a TDS function call using an invalid tag.
0x88 44	6 8	NWE_TDS_INVALID_TAG: Attempted a TDS function call using an invalid tag.
0x88 45	6 9	TDS_WRITE_TRUNCATED: Attempted a TDS write with a buffer that exceeded the buffer.
0x88 45	6 9	NWE_TDS_WRITE_TRUNCATED: Attempted a TDS write with a buffer that exceeded the buffer.
0x88 46	7 0	NO_DIRECTORY_SERVICE_ CONNECTION
0x88 46	7 0	NWE_DS_NO_CONN
0x88 46	7 0	SERVICE_BUSY: Attempted a request to a busy, partially asynchronous function.
0x88 46	7 0	NWE_SERVICE_BUSY: Attempted a request to a busy, partially asynchronous function.
0x88 46	7 0	NO_CONNECTION_TO_DS: Client-32
0x88	7	NO_SERVER_ERROR: Attempted connect failed; no servers

47	1	responding.
0x88 47	7 1	NWE_SERVER_NOT_FOUND: Attempted connect failed; no servers responding.
0x88 48	7 2	BAD_VLM_ERROR: Attempted function call to non-existent or not-loaded overlay.
0x88 48	7 2	NWE_VLM_INVALID: Attempted function call to non-existent or not-loaded overlay.
0x88 49	7 3	NETWORK_DRIVE_IN_USE: Attempted a map to a network drive that was already mapped.
0x88 49	7 3	NWE_DRIVE_ALREADY_MAPPED: Attempted a map to a network drive that was already mapped.
0x88 4A	7 4	LOCAL_DRIVE_IN_USE: Attempted a map to a local drive that was already in use.
0x88 4A	7 4	NWE_DRIVE_LOCAL_IN_USE: Attempted a map to a local drive that was already in use.
0x88 4B	7 5	NO_DRIVES_AVAILABLE: Attempted a map to the next available drive when none were available.
0x88 4B	7 5	NWE_DRIVE_NONE_AVAILABLE: Attempted a map to the next available drive when none were available.
0x88 4C	7 6	DEVICE_NOT_REDIRECTED: The device is not redirected.
0x88 4C	7 6	NWE_DEVICE_NOT_REDIRECTED: The device is not redirected.
0x88 4D	7 7	NO_MORE_SFT_ENTRIES: Maximum number of files was reached.
0x88 4D	7 7	NWE_FILE_MAX_REACHED: Maximum number of files was reached.
0x88 4E	7 8	UNLOAD_ERROR: Attempted unload failed.
0x88 4E	7 8	NWE_UNLOAD_FAILED: Attempted unload failed.
0x88 4F	7 9	IN_USE_ERROR: Attempted to re-use a connection entry that is already in use.
0x88 4F	7 9	NWE_CONN_IN_USE: Attempted to re-use a connection entry that is already in use.
0x88 50	8 0	TOO_MANY_REP_FRAGS: Attempted request with too many reply fragments specified.
0x88 50	8 0	NWE_REQ_TOO_MANY_REP_FRAGS: Attempted request with too many reply fragments specified.
0x88 51	8 1	TABLE_FULL: Attempted to add a name to a full name table.
0x88 51	8 1	NWE_NAME_TABLE_FULL: Attempted to add a name to a full name table.

0x88 52	8 2	SOCKET_NOT_OPEN: Listen was posted on unopened socket.
0x88 52	8 2	NWE_SOCKET_NOT_OPEN: Listen was posted on unopened socket.
0x88 53	8 3	MEM_MGR_ERROR: Attempted enhanced memory operation failed.
0x88 53	8 3	NWE_MEMORY_MGR_ERROR: Attempted enhanced memory operation failed.
0x88 54	8 4	SFT3_ERROR: An SFT III™ switch occurred mid-transfer.
0x88 54	8 4	NWE_SFT3_ERROR: An SFT III™ switch occurred mid-transfer.
0x88 55	8 5	PREFERRED_NOT_FOUND: Connection with the preferred directory server was not established; another directory server was returned.
0x88 55	8 5	NWE_DS_PREFERRED_NOT_FOUND: Connection with the preferred directory server was not established; another directory server was returned.
0x88 56	8 6	DEVICE_NOT_RECOGNIZED: The device is not used by the NetWare requester; pass to another redirector, if any.
0x88 56	8 6	NWE_DEVICE_NOT_RECOGNIZED: The device is not used by the NetWare requester; pass to another redirector, if any.
0x88 57	8 7	BAD_NET_TYPE: The network type (Bindery or NDS) does not match the server version.
0x88 57	8 7	NWE_NET_INVALID_TYPE: The network type (Bindery or NDS) does not match the server version.
0x88 58	8 8	ERROR_OPENING_FILE: Generic open failure error; invalid path, access denied, etc.
0x88 58	8 8	NWE_FILE_OPEN_FAILED: Generic open failure error; invalid path, access denied, etc.
0x88 59	8 9	NO_PREFERRED_SPECIFIED: No preferred name specified.
0x88 59	8 9	NWE_DS_PREFERRED_NOT_SPECIFIED: No preferred name specified.
0x88 5A	9 0	ERROR_OPENING_SOCKET: Error opening a socket.
0x88 5A	9 0	NWE_SOCKET_OPEN_FAILED: Error opening a socket.
0x88 5A	9 0	REQUESTER_FAILURE: Client-32
0x88 5B	9 1	RESOURCE_ACCESS_DENIED: Client-32
0x88	9	SIGNATURE_LEVEL_CONFLICT

0x88 61	9 7	SIGNATURE_LEVEL_CONFLICT
0x88 61	9 7	NWE_SIGNATURE_LEVEL_CONFLICT: Unsupported security level.
0x88 62	9 8	NO_LOCK_FOUND: OS/2---process lock on connection handle failed, process ID not recognized.
0x88 62	9 8	NWE_NO_LOCK_FOUND: OS/2---process lock on connection handle failed, process ID not recognized.
0x88 63	9 9	LOCK_TABLE_FULL: OS/2---process lock on connection handle failed, process lock table full.
0x88 63	9 9	NWE_LOCK_TABLE_FULL: OS/2---process lock on connection handle failed, process lock table full.
0x88 64	1 0 0	INVALID_MATCH_DATA
0x88 64	1 0 0	NWE_INVALID_MATCH_DATA
0x88 65	1 0 1	MATCH_FAILED
0x88 65	1 0 1	NWE_MATCH_FAILED
0x88 66	1 0 2	NO_MORE_ENTRIES
0x88 66	1 0 2	NWE_NO_MORE_ENTRIES
0x88 67	1 0 3	INSUFFICIENT_RESOURCES
0x88 67	1 0 3	NWE_INSUFFICIENT_RESOURCES
0x88 68	1 0 4	STRING_TRANSLATION
0x88 68	1 0 4	NWE_STRING_TRANSLATION
0x88 68	1 0 4	STRING_TRANSLATION_NEEDED: Client-32

0x88 69	1 0 5	ACCESS_VIOLATION
0x88 69	1 0 5	NWE_ACCESS_VIOLATION: Specified connection handle belongs to another process.
0x88 6A	1 0 6	NOT_AUTHENTICATED
0x88 6A	1 0 6	NWE_NOT_AUTHENTICATED
0x88 6B	1 0 7	INVALID_LEVEL
0x88 6B	1 0 7	NWE_INVALID_LEVEL
0x88 6C	1 0 8	RESOURCE_LOCK_ERROR
0x88 6C	1 0 8	NWE_RESOURCE_LOCK
0x88 6D	1 0 9	INVALID_NAME_FORMAT
0x88 6D	1 0 9	NWE_INVALID_NAME_FORMAT
0x88 6E	1 1 0	OBJECT_EXISTS
0x88 6E	1 1 0	NWE_OBJECT_EXISTS
0x88 6F	1 1 1	OBJECT_NOT_FOUND
0x88 6F	1 1 1	NWE_OBJECT_NOT_FOUND
0x88 70	1 1 2	UNSUPPORTED_TRAN_TYPE
0x88	1	NWE_UNSUPPORTED_TRAN_TYPE

70	1 2	
0x88 71	1 1 3	INVALID_STRING_TYPE
0x88 71	1 1 3	NWE_INVALID_STRING_TYPE
0x88 72	1 1 4	INVALID_OWNER
0x88 72	1 1 4	NWE_INVALID_OWNER
0x88 73	1 1 5	UNSUPPORTED_AUTHENTICATOR
0x88 73	1 1 5	NWE_UNSUPPORTED_AUTHENTICATOR
0x88 74	1 1 6	IO_PENDING
0x88 74	1 1 6	NWE_IO_PENDING
0x88 75	1 1 7	INVALID_DRIVE_NUM
0x88 75	1 1 7	NWE_INVALID_DRIVE_NUMBER
0x88 80	1 2 8	SVC_ALREADY_REGISTERED: Client-32
0x88 81	1 2 9	SVC_REGISTRY_FULL: Client-32
0x88 82	1 3 0	SVC_NOT_REGISTERED: Client-32
0x88 83	1 3 1	OUT_OF_RESOURCES: Client-32
0x88 84	1 3	RESOLVE_SVC_FAILED: Client-32

	2	
0x88 85	1 3 3	CONNECT_FAILED: Client-32
0x88 86	1 3 4	PROTOCOL_NOT_BOUND: Client-32
0x88 87	1 3 5	AUTHENTICATION_FAILED: Client-32
0x88 88	1 3 6	INVALID_AUTHEN_HANDLE: Client-32
0x88 89	1 3 7	AUTHEN_HANDLE_ALREADY_EXISTS: Client-32
0x88 90	1 4 4	DIFF_OBJECT_ALREADY_AUTHEN: Client-32
0x88 91	1 4 5	REQUEST_NOT_SERVICEABLE: Client-32
0x88 92	1 4 6	AUTO_RECONNECT_SO_REBUILD: Client-32
0x88 93	1 4 7	AUTO_RECONNECT_RETRY_REQUEST: Client-32
0x88 94	1 4 8	ASYNC_REQUEST_IN_USE: Client-32
0x88 95	1 4 9	ASYNC_REQUEST_CANCELED: Client-32
0x88 96	1 5 0	SESS_SVC_ALREADY_REGISTERED: Client-32
0x88 97	1 5 1	SESS_SVC_NOT_REGISTERED: Client-32
0x88 99	1 5 3	PREVIOUSLY_AUTHENTICATED: Client-32
0x88 9A	1 5	RESOLVE_SVC_PARTIAL: Client-32

	4	
0x88 9B	1 5 5	NO_DEFAULT_SPECIFIED: Client-32
0x88 9C	1 5 6	HOOK_REQUEST_NOT_HANDLED: Client-32
0x88 9D	1 5 7	HOOK_REQUEST_BUSY: Client-32
0x88 9D	1 5 7	HOOK_REQUEST_QUEUED: Client-32
0x88 9E	1 5 8	AUTO_RECONNECT_SO_IGNORE: Client-32
0x88 9F	1 5 9	ASYNC_REQUEST_NOT_IN_USE: Client-32
0x88 A0	1 6 0	AUTO_RECONNECT_FAILURE: Client-32
0x88 A1	1 6 1	NET_ERROR_ABORT_APPLICATION: Client-32
0x88 A2	1 6 2	NET_ERROR_SUSPEND_APPLICATION: Client-32
0x88 A3	1 6 3	NET_ERROR_ABORTED_PROCESS_GROUP: Client-32
0x88 A5	1 6 5	NET_ERROR_PASSWORD_HAS_EXPIRED: Client-32
0x88 A6	1 6 6	NET_ERROR_NETWORK_INACTIVE: Client-32
0x88 FF	2 5 5	SHELL_FAILURE: Either an unknown error, or the shell is not present.
0x88 FF	2 5 5	VLM_FAILURE: Either an unknown error, or the VLM is not present.
0x88 FF	2 5 5	NWE_REQUESTER_FAILURE

NOTE: The decimal (Dec) value is 32768 lower than actual.

Return Values Overview

The same condition might return different values for different NetWare server versions. For example, NetWare 2.2 might return a different value than NetWare 4.1 for the same condition.

Client 32 platforms might return values different from other clients due to unique code paths and caching capabilities.

Use the return value constant name (for example, SUCCESSFUL) rather than its corresponding numerical value (for example, 0x0000) for consistent results across different platforms.

Return values include the following:

errno Values (Declared in ERRNO.H)
NDS Values (0xFDA7 to 0xFFFF --- Declared in NWDSERR.H)
Unicode Values (0xFFE9 to 0xFFF9 --- Declared in UNICODE.H)
Requester/Shell Values (0x8800 to 0x88FF --- Declared in NWERROR.H)
Server Values (0x8901 to 0x89FF --- Declared in NWERROR.H)
NetWare Values (0x00C8 to 0x00F8 --- Declared in NWEA.H and NWMIGRAT.H)
IPX, NCP, and Other Values (File system, IPX™, NCP™, and other OS services) (0xFF01, 0xFF05, 0xFF6A --- Declared in NWDSERR.H)
NetWareErrno Values (Declared in NWERRNO.H)
Print Server Values (0x0000 to 0x77A1 --- Declared in NWPS_ERR.H)

Parent Topic: NetWare SDK Developer's Guide

Server Values

Hex	Dec	Constant: Description
0x8901	001	ERR_INSUFFICIENT_SPACE
0x8901	001	NWE_INSUFFICIENT_SPACE
0x89	1	ERR_BUFFER_TOO_SMALL

77	1 9	
0x89 77	1 1 9	NWE_BUFFER_TOO_SMALL
0x89 78	1 2 0	ERR_VOLUME_FLAG_NOT_SET: The service requested is not available on the selected volume.
0x89 78	1 2 0	NWE_VOL_FLAG_NOT_SET: The service requested is not available on the selected volume.
0x89 79	1 2 1	ERR_NO_ITEMS_FOUND
0x89 79	1 2 1	NWE_NO_ITEMS_FOUND
0x89 7A	1 2 2	ERR_CONN_ALREADY_TEMP
0x89 7A	1 2 2	NWE_CONN_ALREADY_TEMP
0x89 7B	1 2 3	ERR_CONN_ALREADY_LOGGED_IN
0x89 7B	1 2 3	NWE_CONN_ALREADY_LOGGED_IN
0x89 7C	1 2 4	ERR_CONN_NOT_AUTHENTICATED
0x89 7C	1 2 4	NWE_CONN_NOT_AUTHENTICATED
0x89 7D	1 2 5	ERR_CONN_NOT_LOGGED_IN
0x89 7D	1 2 5	NWE_CONN_NOT_LOGGED_IN
0x89 7E	1 2 6	NCP_BOUNDARY_CHECK_FAILED
0x89 7E	1 2	NWE_NCP_BOUNDARY_CHECK_FAILED

	6	
0x89 7F	1 2 7	ERR_LOCK_WAITING
0x89 7F	1 2 7	NWE_LOCK_WAITING
0x89 80	1 2 8	ERR_LOCK_FAIL
0x89 80	1 2 8	NWE_LOCK_FAIL
0x89 80	1 2 8	FILE_IN_USE_ERROR: Attempted to open or create an already open file.
0x89 80	1 2 8	NWE_FILE_IN_USE: Attempted to open or create an already open file.
0x89 81	1 2 9	NO_MORE_FILE_HANDLES: No more file handles available; the network file handle table is full.
0x89 81	1 2 9	NWE_FILE_NO_HANDLES: No more file handles available; the network file handle table is full.
0x89 82	1 3 0	NO_OPEN_PRIVILEGES: Attempted to open a file without the open privilege.
0x89 82	1 3 0	NWE_FILE_NO_OPEN_PRIV: Attempted to open a file without the open privilege.
0x89 83	1 3 1	IO_ERROR_NETWORK_DISK: Hard disk input/output error on a NetWare volume; a bad sector has been encountered and could be fatal.
0x89 83	1 3 1	NWE_DISK_IO_ERROR: Hard disk input/output error on a NetWare volume; a bad sector has been encountered and could be fatal.
0x89 84	1 3 2	NO_CREATE_PRIVILEGES: Attempted to create a file without the create privilege.
0x89 84	1 3 2	NWE_FILE_NO_CREATE_PRIV: Attempted to create a file without the create privilege.
0x89 85	1 3 3	NO_CREATE_DELETE_PRIVILEGES: Attempted to create an already existing file without create/delete privileges.

0x89 85	1 3 3	NWE_FILE_NO_CREATE_DEL_PRIV: Attempted to create an already existing file without create/delete privileges.
0x89 86	1 3 4	CREATE_FILE_EXISTS_READ_ONLY: Attempted to create a file with the same name as an already existing file with read-only status.
0x89 86	1 3 4	NWE_FILE_EXISTS_READ_ONLY: Attempted to create a file with the same name as an already existing file with read-only status.
0x89 87	1 3 5	WILD_CARDS_IN_CREATE_FILE_NAME: Attempted to create a file using an ambiguous filename.
0x89 87	1 3 5	NWE_FILE_WILD_CARDS_IN_NAME: Attempted to create a file using an ambiguous filename.
0x89 87	1 3 5	CREATE_FILENAME_ERROR
0x89 88	1 3 6	INVALID_FILE_HANDLE: Attempted to close or perform an I/O on a file with an invalid file handle (i.e. trying to read from a file that has been closed).
0x89 88	1 3 6	NWE_FILE_INVALID_HANDLE: Attempted to close or perform an I/O on a file with an invalid file handle (i.e. trying to read from a file that has been closed).
0x89 89	1 3 7	NO_SEARCH_PRIVILEGES: Attempted to search a directory without search privileges in that directory.
0x89 89	1 3 7	NWE_FILE_NO_SRCH_PRIV: Attempted to search a directory without search privileges in that directory.
0x89 8A	1 3 8	NO_DELETE_PRIVILEGES: Attempted to delete a file without file deletion privileges in that file's directory.
0x89 8A	1 3 8	NWE_FILE_NO_DEL_PRIV: Attempted to delete a file without file deletion privileges in that file's directory.
0x89 8B	1 3 9	NO_RENAME_PRIVILEGES: Attempted to rename a file without renaming privileges in that file's directory.
0x89 8B	1 3 9	NWE_FILE_NO_RENAME_PRIV: Attempted to rename a file without renaming privileges in that file's directory.
0x89 8C	1 4 0	NO_MODIFY_PRIVILEGES: Attempted to modify a file without attribute modification privileges in that file's directory.

0x89 8C	1 4 0	NWE_FILE_NO_MOD_PRIV: Attempted to modify a file without attribute modification privileges in that file's directory.
0x89 8D	1 4 1	SOME_FILES_AFFECTED_IN_USE: Attempted to delete, rename, or set file attributes using an ambiguous filename while some of the files specified by the filename are in use by another workstation.
0x89 8D	1 4 1	NWE_FILE_SOME_IN_USE: Attempted to delete, rename, or set file attributes using an ambiguous filename while some of the files specified by the filename are in use by another workstation.
0x89 8E	1 4 2	NO_FILES_AFFECTED_IN_USE: Attempted to delete, rename, or set file attributes using an ambiguous filename while some of the files specified by the filename are in use by another workstation.
0x89 8E	1 4 2	NWE_FILE_NONE_IN_USE: Attempted to delete, rename, or set file attributes using an ambiguous filename while some of the files specified by the filename are in use by another workstation.
0x89 8F	1 4 3	SOME_FILES_AFFECTED_READ_ONLY: Attempted to delete, rename, or set file attributes using a filename when some of the files specified have read-only status.
0x89 8F	1 4 3	NWE_FILE_SOME_READ_ONLY: Attempted to delete, rename, or set file attributes using a filename when some of the files specified have read-only status.
0x89 90	1 4 4	NO_FILES_AFFECTED_READ_ONLY: Attempted to delete, rename, or set file attributes using a filename when all of the files specified have read-only status.
0x89 90	1 4 4	NWE_FILE_NONE_READ_ONLY: Attempted to delete, rename, or set file attributes using a filename when all of the files specified have read-only status.
0x89 91	1 4 5	SOME_FILES_RENAMED_NAME_EXISTS: Attempted to rename files using an ambiguous filename, when one or more files matching the new filename specification already exist.
0x89 91	1 4 5	NWE_FILE_SOME_RENAMED_EXIST: Attempted to rename files using an ambiguous filename, when one or more files matching the new filename specification already exist.
0x89 92	1 4 6	NO_FILES_RENAMED_NAME_EXISTS: Attempted to rename a file using a filename, when all of the files matching the new filename specification already exist.
0x89 92	1 4 6	NWE_FILE_NONE_RENAMED_EXIST: Attempted to rename a file using a filename, when all of the files matching the new filename specification already exist.
0x89	1	NO_READ_PRIVILEGES: Attempted to read a file

93	4 7	without read privileges to that file.
0x89 93	1 4 7	NWE_FILE_NO_READ_PRIV: Attempted to read a file without read privileges to that file.
0x89 94	1 4 8	NO_WRITE_PRIVILEGES_OR_READONLY: Attempted to write to a file without write privileges to that file, or the specified file has read-only status.
0x89 94	1 4 8	NWE_FILE_NO_WRITE_PRIV: Attempted to write to a file without write privileges to that file.
0x89 94	1 4 8	NWE_FILE_READ_ONLY: the specified file has read-only status.
0x89 95	1 4 9	FILE_DETACHED: Attempted to read or write to a detached file.
0x89 95	1 4 9	NWE_FILE_DETACHED: Attempted to read or write to a detached file.
0x89 96	1 5 0	SERVER_OUT_OF_MEMORY: Attempted to write to a file server that does not currently have enough free DRAM to process this request.
0x89 96	1 5 0	NWE_SERVER_OUT_OF_MEMORY: Attempted to write to a file server that does not currently have enough free DRAM to process this request.
0x89 96	1 5 0	ERR_TARGET_NOT_A_SUBDIRECTORY
0x89 96	1 5 0	NWE_DIR_TARGET_INVALID
0x89 97	1 5 1	NO_DISK_SPACE_FOR_SPOOL_FILE: The network operating system has determined that the network disk doesn't have enough space left for spool files.
0x89 97	1 5 1	NWE_DISK_NO_SPOOL_SPACE: The network operating system has determined that the network disk doesn't have enough space left for spool files.
0x89 98	1 5 2	VOLUME_DOES_NOT_EXIST: The network operating system has tried to access a volume but cannot find the volume in the system definition files.
0x89 98	1 5 2	NWE_VOL_INVALID: The network operating system has tried to access a volume but cannot find the volume in the system definition files.
0x89 99	1 5	DIRECTORY_FULL

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0x89 99	1 5 3	NWE_DIR_FULL
0x89 9A	1 5 4	RENAMING_ACROSS_VOLUMES: Attempted to rename a file and move the renamed file from its current volume into another volume. The rename command may move the file between directories on the same volume; however, using rename to move a file between volumes is not allowed.
0x89 9A	1 5 4	NWE_VOL_RENAMING_ACROSS: Attempted to rename a file and move the renamed file from its current volume into another volume. The rename command may move the file between directories on the same volume; however, using rename to move a file between volumes is not allowed.
0x89 9B	1 5 5	BAD_DIRECTORY_HANDLE: Attempted to use an invalid directory handle. This occurs if the network has been brought down and brought back up without rebooting the workstation.
0x89 9B	1 5 5	NWE_DIRHANDLE_INVALID: Attempted to use an invalid directory handle. This occurs if the network has been brought down and brought back up without rebooting the workstation.
0x89 9C	1 5 6	INVALID_PATH
0x89 9C	1 5 6	NWE_PATH_INVALID
0x89 9C	1 5 6	NO_MORE_TRUSTEES: No more trustees are listed in the directory.
0x89 9C	1 5 6	NWE_TRUSTEES_NO_MORE: No more trustees are listed in the directory.
0x89 9D	1 5 7	NO_MORE_DIRECTORY_HANDLES: No more directory handles available; the directory handle table is full. Each user may have up to 255 directory handles.
0x89 9D	1 5 7	NWE_DIRHANDLE_NO_MORE: No more directory handles available; the directory handle table is full. Each user may have up to 255 directory handles.
0x89 9E	1 5 8	INVALID_FILENAME: Attempted to create a file using invalid characters in the file name.
0x89 9E	1 5	NWE_FILE_NAME_INVALID: Attempted to create a file using invalid characters in the file name.

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0x89 9F	1 5 9	DIRECTORY_ACTIVE: Attempted to delete a directory that is being used by another workstation.
0x89 9F	1 5 9	NWE_DIR_ACTIVE: Attempted to delete a directory that is being used by another workstation.
0x89 A0	1 6 0	DIRECTORY_NOT_EMPTY
0x89 A0	1 6 0	NWE_DIR_NOT_EMPTY
0x89 A1	1 6 1	DIRECTORY_IO_ERROR: A nonrecoverable I/O error has occurred on the disk in the directory area. This error has occurred in both copies of the directory and is fatal.
0x89 A1	1 6 1	NWE_DIR_IO_ERROR: A nonrecoverable I/O error has occurred on the disk in the directory area. This error has occurred in both copies of the directory and is fatal.
0x89 A2	1 6 2	READ_FILE_WITH_RECORD_LOCKED: Attempted to read a file where data is physically locked.
0x89 A2	1 6 2	NWE_FILE_IO_LOCKED: Attempted to read a file where data is physically locked.
0x89 A3	1 6 3	ERR_TRANSACTION_RESTARTED
0x89 A3	1 6 3	NWE_TTS_RANSACTION_RESTARTED
0x89 A4	1 6 4	ERR_RENAME_DIR_INVALID
0x89 A4	1 6 4	NWE_DIR_RENAME_INVALID
0x89 A5	1 6 5	ERR_INVALID_OPENCREATE_MODE
0x89 A5	1 6 5	NWE_FILE_OPENCREAT_MODE_INVALID
0x89 A6	1 6	ERR_ALREADY_IN_USE

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0x89 A6	1 6 6	NWE_ALREADY_IN_USE
0x89 A7	1 6 7	ERR_INVALID_RESOURCE_TAG
0x89 A7	1 6 7	NWE_RESOURCE_TAG_INVALID
0x89 A8	1 6 8	ERR_ACCESS_DENIED
0x89 A8	1 6 8	NWE_ACCESS_DENIED
0x89 BE	1 9 0	INVALID_DATA_STREAM
0x89 BE	1 9 0	NWE_DATA_STREAM_INVALID
0x89 BF	1 9 1	INVALID_NAME_SPACE
0x89 BF	1 9 1	NWE_NAME_SPACE_INVALID
0x89 C0	1 9 2	NO_ACCOUNTING_PRIVILEGES
0x89 C0	1 9 2	NWE_ACCTING_NO_PRIV
0x89 C1	1 9 3	LOGIN_DENIED_NO_ACCOUNT_ BALANCE: Attempted to log in by a bindery object without an accounting balance, and accounting is enabled.
0x89 C1	1 9 3	NWE_ACCTING_NO_ BALANCE: Attempted to log in by a bindery object without an accounting balance, and accounting is enabled.
0x89 C2	1 9 4	LOGIN_DENIED_NO_CREDIT: Attempted to log in to account with no credit available.
0x89 C2	1 9 4	NWE_ACCTING_NO_CREDIT: Attempted to log in to account with no credit available.

0x89 C3	195	ERR_TOO_MANY_HOLDS
0x89 C3	195	NWE_ACCTING_TOO_MANY_HOLDS
0x89 C4	196	ACCOUNTING_DISABLED
0x89 C4	196	NWE_ACCTING_DISABLED
0x89 C5	197	INTRUDER_DETECTION_LOCK: Attempt to log in after the system had locked the account because of intruder detection.
0x89 C5	197	NWE_LOGIN_LOCKOUT: Attempt to log in after the system had locked the account because of intruder detection.
0x89 C6	198	NO_CONSOLE_OPERATOR: Attempt to use console without operator privileges.
0x89 C6	198	NWE_CONSOLE_NO_PRIV: Attempt to use console without operator privileges.
0x89 C6	198	NO_CONSOLE_PRIVILEGES
0x89 D0	208	ERR_Q_IO_FAILURE
0x89 D0	208	NWE_Q_IO_FAILURE
0x89 D1	209	ERR_NO_QUEUE
0x89 D1	209	NWE_Q_NONE
0x89 D2	210	ERR_NO_Q_SERVER
0x89 D2	210	NWE_Q_NO_SERVER

0x89 D3	211	ERR_NO_Q_RIGHTS
0x89 D3	211	NWE_Q_NO_RIGHTS
0x89 D4	212	ERR_Q_FULL
0x89 D4	212	NWE_Q_FULL
0x89 D5	213	ERR_NO_Q_JOB
0x89 D5	213	NWE_Q_NO_JOB
0x89 D6	214	ERR_NO_Q_JOB_RIGHTS
0x89 D6	214	NWE_Q_NO_JOB_RIGHTS
0x89 D6	214	NWE_PASSWORD_UNENCRYPTED
0x89 D7	215	ERR_Q_IN_SERVICE
0x89 D7	215	NWE_Q_IN_SERVICE
0x89 D7	215	PASSWORD_NOT_UNIQUE: Attempt to change password to a previously used password when the unique requirement is specified for the account.
0x89 D7	215	NWE_PASSWORD_NOT_UNIQUE: Attempt to change password to a previously used password when the unique requirement is specified for the account.
0x89 D8	216	ERR_Q_NOT_ACTIVE
0x89 D8	216	NWE_Q_NOT_ACTIVE
0x89	2	PASSWORD_TOO_SHORT: Attempt to change password

D8	16	to a password with fewer characters than the required minimum specified for the account.
0x89 D8	216	NWE_PASSWORD_TOO_SHORT: Attempt to change password to a password with fewer characters than the required minimum specified for the account.
0x89 D9	217	ERR_Q_STN_NOT_SERVER
0x89 D9	217	NWE_Q_STN_NOT_SERVER
0x89 D9	217	LOGIN_DENIED_NO_CONNECTION
0x89 D9	217	NWE_LOGIN_NO_CONN
0x89 D9	217	NWE_LOGIN_MAX_EXCEEDED
0x89 D9	217	ERR_MAXIMUM_LOGINS_EXCEEDED: Attempt to log in using an account which has limits on the number of concurrent connections and that number has been reached.
0x89 DA	218	ERR_Q_HALTED
0x89 DA	218	NWE_Q_HALTED
0x89 DA	218	UNAUTHORIZED_LOGIN_TIME
0x89 DA	218	NWE_LOGIN_UNAUTHORIZED_TIME
0x89 DB	219	UNAUTHORIZED_LOGIN_STATION: Attempt to log in from an unauthorized station using an account with limits to a specific network and/or station.
0x89 DB	219	NWE_LOGIN_UNAUTHORIZED_STATION: Attempt to log in from an unauthorized station using an account with limits to a specific network and/or station.
0x89 DB	219	ERR_Q_MAX_SERVERS
0x89	2	NWE_Q_MAX_SERVERS

0x89 DB	2 1 9	NWE_Q_MAX_SERVERS
0x89 DC	2 2 0	ACCOUNT_DISABLED: Attempt to log in using an account which has expired or has been disabled by the Supervisor.
0x89 DC	2 2 0	NWE_ACCT_DISABLED: Attempt to log in using an account which has expired or has been disabled by the Supervisor.
0x89 DE	2 2 2	PASSWORD_HAS_EXPIRED_NO_GRACE: Attempt to log in using an account password which has expired and all grace logins have also expired.
0x89 DE	2 2 2	NWE_PASSWORD_INVALID: Attempt to log in using an account password which has expired and all grace logins have also expired.
0x89 DF	2 2 3	PASSWORD_HAS_EXPIRED: Attempt to log in using an expired account password but the login was allowed because the account had a grace login.
0x89 DF	2 2 3	NWE_PASSWORD_EXPIRED: Attempt to log in using an expired account password but the login was allowed because the account had a grace login.
0x89 E0	2 2 4	NWE_LOGIN_NO_CONN_AVAIL
0x89 E7	2 3 1	E_NO_MORE_USERS
0x89 E7	2 3 1	NWE_E_NO_MORE_USERS
0x89 E8	2 3 2	NOT_ITEM_PROPERTY: Attempt to use an item not associated with this property group or an item which has been deleted from this group.
0x89 E8	2 3 2	NWE_BIND_NOT_ITEM_PROP: Attempt to use an item not associated with this property group or an item which has been deleted from this group.
0x89 E8	2 3 2	WRITE_PROPERTY_TO_GROUP: Attempt to write a data segment to a group property using the call to write a property value.
0x89 E8	2 3 2	NWE_BIND_WRITE_TO_GROUP_PROP: Attempt to write a data segment to a group property using the call to write a property value.
0x89 E9	2 3 3	MEMBER_ALREADY_EXISTS: Attempt to redundantly add an object to a group property.
0x89	2	NWE_BIND_MEMBER_ALREADY_EXISTS: Attempt to

E9	3 3	redundantly add an object to a group property.
0x89 EA	2 3 4	NO_SUCH_MEMBER
0x89 EA	2 3 4	NWE_BIND_NO_SUCH_MEMBER
0x89 EB	2 3 5	NOT_GROUP_PROPERTY: Attempt to use a non-group property.
0x89 EB	2 3 5	NWE_BIND_NOT_GROUP_PROP: Attempt to use a non-group property.
0x89 EC	2 3 6	NO_SUCH_SEGMENT: Attempt to use a nonexistent segment. Note that segments must be written sequentially when a property is first created, but may be read and written in any order after they already exist.
0x89 EC	2 3 6	NWE_BIND_NO_SUCH_SEGMENT: Attempt to use a nonexistent segment. Note that segments must be written sequentially when a property is first created, but may be read and written in any order after they already exist.
0x89 ED	2 3 7	PROPERTY_ALREADY_EXISTS
0x89 ED	2 3 7	NWE_BIND_PROP_ALREADY_EXISTS
0x89 EE	2 3 8	OBJECT_ALREADY_EXISTS
0x89 EE	2 3 8	NWE_BIND_OBJ_ALREADY_EXISTS
0x89 EF	2 3 9	INVALID_NAME: Request made with an object or property name containing illegal characters. Illegal characters in names are control characters, the comma, colon, semicolon, slash, backslash, question mark, asterisk, and tilde.
0x89 EF	2 3 9	NWE_BIND_NAME_INVALID: Request made with an object or property name containing illegal characters. Illegal characters in names are control characters, the comma, colon, semicolon, slash, backslash, question mark, asterisk, and tilde.
0x89 F0	2 4 0	WILD_CARD_NOT_ALLOWED: Attempt to use a wildcard character or wild object type in a call where wildcards are not allowed.

0x89 F0	2 4 0	NWE_BIND_WILDCARD_INVALID: Attempt to use a wildcard character or wild object type in a call where wildcards are not allowed.
0x89 F1	2 4 1	INVALID_BINDERY_SECURITY: Attempt to assign a security level of a bindery object or property to be higher than the user's security level. This would make the object or property inaccessible to the user.
0x89 F1	2 4 1	NWE_BIND_SECURITY_INVALID: Attempt to assign a security level of a bindery object or property to be higher than the user's security level. This would make the object or property inaccessible to the user.
0x89 F2	2 4 2	NO_OBJECT_READ_PRIVILEGE: Attempt to access object information or scan the object's properties by a station without the necessary security to access this information.
0x89 F2	2 4 2	NWE_BIND_OBJ_NO_READ_PRIV: Attempt to access object information or scan the object's properties by a station without the necessary security to access this information.
0x89 F3	2 4 3	NO_OBJECT_RENAME_PRIVILEGE: Attempt to rename an object without the necessary security. Only the Supervisor can rename objects. Note that if the station does not have the proper security to see that the object exists, then NCP_NO_SUCH_OBJECT is returned.
0x89 F3	2 4 3	NWE_BIND_OBJ_NO_RENAME_PRIV: Attempt to rename an object without the necessary security. Only the Supervisor can rename objects. Note that if the station does not have the proper security to see that the object exists, then NCP_NO_SUCH_OBJECT is returned.
0x89 F4	2 4 4	NO_OBJECT_DELETE_PRIVILEGE: Attempt to delete an object by a station without the necessary security to delete the object. Only the Supervisor can delete objects. Note that if the station does not even have the proper security to see that the object exists, then NCP_NO_SUCH_OBJECT is returned.
0x89 F4	2 4 4	NWE_BIND_OBJ_NO_DELETE_PRIV: Attempt to delete an object by a station without the necessary security to delete the object. Only the Supervisor can delete objects. Note that if the station does not even have the proper security to see that the object exists, then NCP_NO_SUCH_OBJECT is returned.
0x89 F5	2 4 5	NO_OBJECT_CREATE_PRIVILEGE: Attempt to create an object by a station without the necessary security to create or change an object. Only Supervisors are allowed to create objects.
0x89 F5	2 4 5	NWE_BIND_OBJ_NO_CREATE_PRIV: Attempt to create an object by a station without the necessary security to create or change an object. Only Supervisors are allowed

		to create objects.
0x89 F6	2 4 6	NO_PROPERTY_DELETE_PRIVILEGE: Attempt to delete a property by a station without the necessary security privilege to delete a property from the give object. Note that if the station does not have the proper security to see that the property exists, then NCP_NO_SUCH_PROPERTY is returned.
0x89 F6	2 4 6	NWE_BIND_PROP_NO_DELETE_PRIV: Attempt to delete a property by a station without the necessary security privilege to delete a property from the give object. Note that if the station does not have the proper security to see that the property exists, then NCP_NO_SUCH_PROPERTY is returned.
0x89 F7	2 4 7	NO_PROPERTY_CREATE_PRIVILEGE: Attempt to create a property by a station without the necessary security to create or change a property for the object.
0x89 F7	2 4 7	NWE_BIND_PROP_NO_CREATE_PRIV: Attempt to create a property by a station without the necessary security to create or change a property for the object.
0x89 F8	2 4 8	NO_PROPERTY_WRITE_PRIVILEGE: Attempt to write by a station without the necessary write security to change the property data.
0x89 F8	2 4 8	NWE_BIND_PROP_NO_WRITE_PRIV: Attempt to write by a station without the necessary write security to change the property data.
0x89 F9	2 4 9	NO_FREE_CONNECTION_SLOTS
0x89 F9	2 4 9	NWE_NO_FREE_CONN_SLOTS
0x89 F9	2 4 9	NO_PROPERTY_READ_PRIVILEGE: Attempt to read by a station without the necessary read security to access the property data.
0x89 F9	2 4 9	NWE_BIND_PROP_NO_READ_PRIV: Attempt to read by a station without the necessary read security to access the property data.
0x89 FA	2 5 0	NO_MORE_SERVER_SLOTS
0x89 FA	2 5 0	NWE_NO_MORE_SERVER_SLOTS
0x89 FA	2 5 0	TEMP_REMAP_ERROR: Attempt to use an unknown path.

0x89 FA	2 5 0	NWE_TEMP_REMAP_ERROR: Attempt to use an unknown path.
0x89 FB	2 5 1	INVALID_PARAMETERS: Attempt to use an invalid parameter (drive number, path, or flag value) during a set drive path call.
0x89 FB	2 5 1	NWE_PARAMETERS_INVALID: Attempt to use an invalid parameter (drive number, path, or flag value) during a set drive path call.
0x89 FB	2 5 1	NO_SUCH_PROPERTY
0x89 FB	2 5 1	NWE_BIND_NO_SUCH_PROP
0x89 FB	2 5 1	ERR_NCP_NOT_SUPPORTED
0x89 FB	2 5 1	NWE_NCP_NOT_SUPPORTED
0x89 FC	2 5 2	INTERNET_PACKET_REQT_CANCELED
0x89 FC	2 5 2	NWE_INET_PACKET_REQ_CANCELED
0x89 FC	2 5 2	UNKNOWN_FILE_SERVER: Attempt to attach to a server using an invalid server name.
0x89 FC	2 5 2	NWE_SERVER_UNKNOWN: Attempt to attach to a server using an invalid server name.
0x89 FC	2 5 2	MESSAGE_QUEUE_FULL
0x89 FC	2 5 2	NWE_MSG_Q_FULL
0x89 FC	2 5 2	NO_SUCH_OBJECT: Attempt to use an object which doesn't exist, or the calling station doesn't have the proper security to access the object. Note that the object name and type must both match for the object to be found.
0x89 FC	2 5 2	NWE_BIND_NO_SUCH_OBJ: Attempt to use an object which doesn't exist, or the calling station doesn't have the proper security to access the object. Note that the object

		name and type must both match for the object to be found.
0x89 FD	2 5 3	LOCK_COLLISION
0x89 FD	2 5 3	NWE_LOCK_COLLISION
0x89 FD	2 5 3	BAD_STATION_NUMBER: Attempt to use a bad (undefined, unavailable, etc.) station number.
0x89 FD	2 5 3	NWE_CONN_NUM_INVALID: Attempt to use a bad (undefined, unavailable, etc.) station number.
0x89 FD	2 5 3	INVALID_PACKET_LENGTH: The requesting packet did not have a 30 byte packet header as the first fragment, or its total length exceeded 576 characters.
0x89 FD	2 5 3	NWE_PACKET_LEN_INVALID: The requesting packet did not have a 30 byte packet header as the first fragment, or its total length exceeded 576 characters.
0x89 FD	2 5 3	UNKNOWN_REQUEST
0x89 FD	2 5 3	NWE_UNKNOWN_REQ
0x89 FE	2 5 4	BINDERY_LOCKED
0x89 FE	2 5 4	NWE_BIND_LOCKED
0x89 FE	2 5 4	TRUSTEE_NOT_FOUND
0x89 FE	2 5 4	NWE_TRUSTEE_NOT_FOUND
0x89 FE	2 5 4	DIRECTORY_LOCKED
0x89 FE	2 5 4	NWE_DIR_LOCKED
0x89 FE	2 5 4	INVALID_SEMAPHORE_NAME_LENGTH

0x89 FE	2 5 4	NWE_SEM_INVALID_NAME_LEN
0x89 FE	2 5 4	PACKET_NOT_DELIVERABLE
0x89 FE	2 5 4	NWE_PACKET_NOT_DELIVERABLE
0x89 FE	2 5 4	SERVER_BINDERY_LOCKED
0x89 FE	2 5 4	SOCKET_TABLE_FULL
0x89 FE	2 5 4	NWE_SOCKET_TABLE_FULL
0x89 FE	2 5 4	SPOOL_DIRECTORY_ERROR
0x89 FE	2 5 4	NWE_SPOOL_DIR_ERROR
0x89 FE	2 5 4	SUPERVISOR_HAS_DISABLED_LOGIN
0x89 FE	2 5 4	NWE_LOGIN_DISABLED_BY_SUPER
0x89 FE	2 5 4	TIMEOUT_FAILURE
0x89 FE	2 5 4	NWE_TIMEOUT_FAILURE
0x89 FF	2 5 5	BAD_PRINTER_ERROR
0x89 FF	2 5 5	NWE_BAD_SPOOL_PRINTER
0x89 FF	2 5 5	BAD_RECORD_OFFSET

0x89FF	255	NWE_BAD_RECORD_OFFSET
0x89FF	255	CLOSE_FCB_ERROR
0x89FF	255	NWE_FCB_CLOSE
0x89FF	255	FILE_EXTENSION_ERROR
0x89FF	255	NWE_FILE_EXT
0x89FF	255	FILE_NAME_ERROR
0x89FF	255	NWE_FILE_NAME
0x89FF	255	HARDWARE_FAILURE
0x89FF	255	NWE_HARD_FAILURE
0x89FF	255	INVALID_DRIVE_NUMBER
0x89FF	255	NWE_DRIVE_INVALID_NUM
0x89FF	255	DOS_INVALID_DRIVE
0x89FF	255	INVALID_INITIAL_SEMAPHORE_VALUE
0x89FF	255	NWE_SEM_INVALID_INIT_VAL
0x89FF	255	INVALID_SEMAPHORE_HANDLE
0x89	2	NWE_SEM_INVALID_HANDLE

FF	5 5	
0x89 FF	2 5 5	IO_BOUND_ERROR
0x89 FF	2 5 5	NWE_IO_BOUND
0x89 FF	2 5 5	NO_FILES_FOUND_ERROR
0x89 FF	2 5 5	NWE_NO_FILES_FOUND_ERROR
0x89 FF	2 5 5	NO_RESPONSE_FROM_SERVER
0x89 FF	2 5 5	NWE_NO_RESPONSE_FROM_SERVER
0x89 FF	2 5 5	NO_SUCH_OBJECT_OR_BAD_PASSWORD
0x89 FF	2 5 5	NWE_NO_OBJ_OR_BAD_PASSWORD
0x89 FF	2 5 5	PATH_NOT_LOCATABLE
0x89 FF	2 5 5	NWE_PATH_NOT_LOCATABLE
0x89 FF	2 5 5	QUEUE_FULL_ERROR
0x89 FF	2 5 5	NWE_Q_FULL_ERROR
0x89 FF	2 5 5	REQUEST_NOT_OUTSTANDING
0x89 FF	2 5 5	NWE_REQ_NOT_OUTSTANDING
0x89	2	SOCKET_ALREADY_OPEN

FF	5 5	
0x89 FF	2 5 5	NWE_SOCKET_ALREADY_OPEN
0x89 FF	2 5 5	LOCK_ERROR
0x89 FF	2 5 5	NWE_LOCK_ERROR
0x89 FF	2 5 5	FAILURE: Generic Failure
0x89 FF	2 5 5	NWE_FAILURE: Generic Failure

NOTE: The decimal (Dec) value is 32768 lower than actual.

Parent Topic: Return Values

spawnlp/spawnvp Values

1	LOAD_COULD_NOT_FIND_FILE
2	LOAD_ERROR_READING_FILE
3	LOAD_NOT_NLM_FILE_FORMAT
4	LOAD_WRONG_NLM_FILE_VERSION
5	LOAD_REENTRANT_INITIALIZE_FAILURE
6	LOAD_CAN_NOT_LOAD_MULTIPLE_COPIES
7	LOAD_ALREADY_IN_PROGRESS
8	LOAD_NOT_ENOUGH_MEMORY
9	LOAD_INITIALIZE_FAILURE
1 0	LOAD_INCONSISTENT_FILE_FORMAT
1 1	LOAD_CAN_NOT_LOAD_AT_STARTUP
1 2	LOAD_AUTO_LOAD_MODULES_NOT_LOADED
1	LOAD_UNRESOLVED_EXTERNAL

3 1 4	LOAD_PUBLIC_ALREADY_DEFINED

Parent Topic: NetWareErrno Values

Unicode Values

Hex	Dec	Constant: Description
0xFDE0	-544	NWU_NO_CONVERTER: Default converter not loaded
0xFDE1	-543	NWU_CONVERTER_NOT_FOUND: Converter file was not found
0xFDE2	-542	NWU_TOO_MANY_FILES (DOS only): Too many files are open
0xFDE3	-541	NWU_NO_PERMISSION (DOS only): Access to file was denied
0xFDE4	-540	NWU_OPEN_FAILED (DOS only): Attempt to open file failed
0xFDE5	-539	NWU_READ_FAILED (DOS only): Attempt to read file failed
0xFDE6	-538	NWU_OUT_OF_MEMORY: Insufficient memory
0xFDE7	-537	NWU_CANT_LOAD_CONVERTER: Unable to load converter
0xFDE8	-536	NWU_CONVERTER_CORRUPT: Converter is invalid
0xFDE9	-535	NWU_NULL_HANDLE: Converter handle was NULL
0xFDEA	-534	NWU_BAD_HANDLE: Converter handle is invalid
0xFDEB	-533	NWU_HANDLE_MISMATCH: Handle does not match operation
0xFDEC	-532	NWU_UNMAPPABLE_CHAR: Unmappable character found
0xFDED	-531	NWU_RANGE_ERROR: Invalid constant was passed to function
0xFDEE	-530	NWU_BUFFER_FULL: Buffer too small for output

0xFD EF	-5 29	NWU_INPUT_MAX: Processed maximum number of input characters
0xFE 17	-4 89	UNI_ALREADY_LOADED: Already loaded another country or code page.
0xFE 16	-4 90	UNI_FUTURE_OPCODE: Rule table has unimplimented rules.
0xFE 15	-4 91	UNI_NO_SUCH_FILE: No such file or directory.
0xFE 14	-4 92	UNI_TOO_MANY_FILES: Too many files already open.
0xFE 13	-4 93	UNI_NO_PERMISSION: Permission denied on file open.
0xFE 12	-4 94	UNI_NO_MEMORY: Not enough memory.
0xFE 11	-4 95	UNI_LOAD_FAILED: **NWLoadRuleTable** failed; do not know why.
0xFE 10	-4 96	UNI_HANDLE_BAD: Rule table handle was bad.
0xFE 0F	-4 97	UNI_HANDLE_MISMATCH: Rule table handle does not match operation.
0xFE 0E	-4 98	UNI_RULES_CORRUPT: Rule table is corrupt.
0xFE 0D	-4 99	UNI_NO_DEFAULT: No default rule and no 'No map' character.
0xFE 0C	-5 00	UNI_INSUFFICIENT_BUFFER
0xFE 0B	-5 01	UNI_OPEN_FAILED: Open failed in **NWLoadRuleTable**.
0xFE 0A	-5 02	UNI_NO_LOAD_DIR: Load directory could not be determined.
0xFE 09	-5 03	UNI_BAD_FILE_HANDLE: File handle was bad.
0xFE 08	-5 04	UNI_READ_FAILED: File read of rule table failed.
0xFE 07	-5 05	UNI_TRANS_CORRUPT: Translator is corrupt.

Parent Topic: Return Values