

Error Messages and Exceptions

APPENDIX

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One difference between good software and great software is that whereas good software runs well, great software runs well and *fails* well. In Delphi programs, errors that are detected at runtime usually are reported and handled as exceptions. This allows your code the opportunity to respond to problems and recover (by backing up and trying another approach) or at least to “degrade gracefully” (free allocated resources, close files, and display an error message), instead of just crashing and making a mess of your system. Most exceptions in Delphi programs are raised and handled completely within the program; very few runtime errors actually will bring a Delphi program to a screeching halt.

This appendix lists the most common error messages that a Delphi application can report and provides field notes to help you find the cause of the error condition. Because each component you add to your Delphi environment often has its own set of error messages, this list can never be complete, so we’ll focus on the most common or most insidious error messages you’re likely to face while developing and debugging your Delphi applications.

Layers of Handlers, Layers of Severity

Every Delphi program has two default exception handlers, one below the other. VCL provides the default exception handler you’ll see most of the time. VCL wraps an exception handler around the window procedure entry points of every VCL object. If an exception occurs while your program is responding to a Windows message (which is what your program spends 99 percent of its lifetime doing) and the exception is not handled by your code or a VCL component, the exception eventually will wind up stopping at the VCL default exception handler in the window procedure. That exception handler calls `Application.HandleException`, which will show the exception instance’s text message to the user in a pop-up message box. After that, your program continues running and processing additional window messages.

The lowest-level exception handler lives at the heart of the Delphi RTL, several subbasements below the default VCL exception handler. If an exception occurs outside the context of message processing—such as during program startup or shutdown or during the execution of the VCL default exception handler—and the exception goes unhandled, it eventually will wind up stopping at the RTL default exception handler. At this level, there’s no recourse for recovery—no message loop to keep things going. When activated, the RTL default exception handler displays a detailed error message to the user and then terminates the application.

In addition to the exception message text, the RTL default exception handler also reports the address of the code that raised the exception, in the form of a hexadecimal address. Use the Search, Find Error option in the Delphi IDE and enter this address in the dialog box. Delphi will move the cursor to the place in your source code that corresponds to this address, if it can locate the address and the source code.

If Delphi responds with “Address Not Found,” this could mean that the error occurred in another module (for example, a “wild” pointer overwrote memory in use by some other application). More often, however, “Address Not Found” indicates that you have disabled line-number information in the unit that the address corresponds to (`{SD-}`) or that you don’t have source code for that unit. Double-check that you’re compiling your project with compiler debug info enabled, in the Project, Options dialog box, Compiler page, Debugging section. While you have the Project, Options dialog box open, check to see that the search path on the Directories/Conditionals page contains all the source code directories you want to use during debugging. If the Delphi IDE can’t find a source file, it can’t show you the source code line that corresponds to the exception error address. Use Project, Build All to recompile all your units with the new compiler settings.

Runtime Errors

This section will give you some pointers on what you should do when you experience errors in the form of exceptions or Win32 API function failures. These types of errors are rarely fatal, but you should know how to tackle them when the need arises.

Exceptions

Here we describe additional exceptions that Delphi’s VCL components can raise. Keep in mind that custom components and your own code can (and often should) define additional exception classes specific to the task at hand.

Several of the exception classes listed here describe related error conditions: families of errors. The relationship of the exception classes to each other is captured by creating a general-purpose exception class to represent the entire family and specific exception classes that inherit from the general-purpose class. When you want to handle all errors in that family the same way, use the general-purpose exception class in the `on` clause of your `except` block. When you want to handle only certain specific errors from that family, use the specific exception classes in `on` clauses in your `except` block.

In the following list, we use indentation to group related exception classes together beneath their common generic ancestor class:

- **Exception.** This is the ancestor of all exception classes. There is nothing wrong with using this class to raise exceptions in quick-and-dirty code, but in production code, you’ll want to be able to distinguish between the multitude of families of errors that your application can encounter. The best way to distinguish a family of related error conditions from the rest of the pack is to use a custom exception class to report those related errors.

- **EAbort.** Referred to as Delphi's "silent" exception, this exception is trapped by the VCL default exception handler, but VCL does not inform the user that the exception occurred. Use **EAbort** when you want to take advantage of the exception's capability to abort and unwind out of a complicated process, but you don't want the user to see an error message. Remember, the terms *exception* and *error* are *not* equivalent: exceptions are a means of changing program flow to facilitate error handling (among other things).
- **EAccessViolation.** An access violation has occurred in the operating system. Usually caused by a `Nil` or "wild" pointer.
- **EAssertionFailed.** The statement passed to the `Assert()` procedure evaluated to `False`.
- **EBitsError.** Raised when the `Bits` or `Size` property of a `TBits` object is out of bounds.
- **EComponentError.** This exception is raised in two situations. The first situation is when you use `RegisterClasses()` to attempt to register a component outside the `Register()` procedure. The second is when the name of your component is invalid or not unique.
- **EControlC.** The user has interrupted with the `Ctrl+C` key combination. This exception only occurs within console-mode applications.
- **EDbEditError.** The user entered text into a `TMaskEdit` or `TDbEdit` component that's incompatible with the current edit mask.
- **EDdeError.** An error occurred during a DDE operation with any of the `TDdeClientConv`, `TDdeClientItem`, `TDdeServerConv`, and `TDdeServerItem` components.
- **EExternalException.** This exception occurs when an unrecognized exception is raised by the operating system.
- **EInOutError.** This exception is raised when any I/O error occurs in your program. This exception will only occur when I/O checking is enabled using `{I+}` in code or by enabling I/O Checking on the Compiler page of the Project Options dialog in IDE.
- **EIntError.** This is the ancestor of all integer math exceptions. Here are the descendents of this class:
 - **EDivByZero.** This exception is raised when you divide an integral number by zero. This exception is raised as a result of runtime error 200. This code example will cause an `EDivByZero` exception:

```
var
  I: integer;
begin
  I := 0;
  I := 10 div I;  { exception raised here }
end;
```
 - **EIntOverflow.** This exception is raised when you attempt to perform an operation that overflows an integral variable beyond that variable type's capacity. This excep-

tion is raised as a result of runtime error 215. This exception will only be raised if overflow checking is enabled using {\$Q+} in code or by enabling Overflow Checking on the Compiler page of the Project Options dialog in the IDE. The following code will cause this exception to be raised:

```
var
  l: longint;
begin
  l := MaxLongint;
  l := l * l;  { exception raised here }
end;
```

- **ERangeError.** This exception is raised when you attempt to index an array beyond its declared bounds or when you attempt to store a value that's too large in an integral type variable. This exception is raised as a result of runtime error 201. Range checking must be enabled with {\$R+} in code or by enabling Range Checking on the Compiler page of the Project Options dialog in the IDE for this error to occur. The following example will cause Delphi to raise this exception:

```
var
  a: array[1..16] of integer;
  i: integer;
begin
  i := 17;
  a[i] := 1;  { exception raised here }
end;
```

- **EIntfCastError.** An attempt was made to cast an object or interface to an unsupported interface.
- **EInvalidCast.** This exception is raised when you attempt to use the as operator to type-cast a class to an incompatible class. This exception is raised as a result of runtime error 219. The following code will cause this exception to be raised:

```
var
  B: TObject;
begin
  B := TButton.Create(nil);
  { exception raised here - TMemor is not an ancestor of TButton }
  with B as TMemor do
    ...
end;
```

- **EInvalidGraphic.** This exception is raised when you attempt to use LoadFromFile() on a file that's not a compatible graphics format in a class expecting a graphics file.
- **EInvalidGraphicOperation.** This exception is raised when you attempt to perform an illegal operation on a graphic object. For example, resizing a TIcon is illegal.

- **EInvalidOperation**. This exception occurs when you try to display or perform any other operation that requires a window handle on a control without a parent. Here's an example:

```
var
  b: TBitBtn;
begin
  b := TBitBtn.Create(Self);
  b.SetFocus; { exception raised here }
end;
```

- **EInvalidPointer**. This exception is raised usually when you attempt to free an invalid or already-freed portion of memory in a call to `Dispose()`, `FreeMem()`, or a class destructor. This example causes an `EInvalidPointer` exception to be raised:

```
var
  p: pointer;
begin
  GetMem(p, 8);
  FreeMem(p, 8);
  FreeMem(p, 8); { exception raised here }
end;
```

- **EListError**. This exception will be raised if you try to index past the end of a `TList` descendant. Here's an example:

```
var
  S: TStringList;
  Strng: String;
begin
  S := TStringList.Create;
  S.Add('One String');
  Strng := S.Strings[2]; { exception raised here }
end;
```

- **EMathError**. This is the ancestor object from which the following floating-point exceptions are derived:

- **EInvalidOp**. This exception is raised when an invalid instruction is sent to the numeric coprocessor. This exception is uncommon unless you control the coprocessor directly with `BASM` code.
- **EOverflow**. This exception is raised as a result of floating-point overflow (that is, when a value becomes too large to hold in a floating point variable). This exception corresponds to runtime error 205.
- **EUnderflow**. Raised as a result of floating-point underflow (that is, when a value becomes too small to hold in a floating point variable). This exception corresponds to runtime error 206.
- **EZeroDivide**. Raised when a floating point number is divided by zero.

- **EMCIDeviceError**. This exception indicates that an error occurred in the **TMediaPlayer** component. Most commonly, this exception is raised when the user attempts to play some media whose type is unsupported by the hardware.
- **EMenuError**. This is a generic exception that occurs in almost any error condition involving a **TMenu**, **TMenuItem**, or **TPopupMenu** component.
- **EOLECtrlError**. This exception is reserved for ActiveX control wrapper errors, but it's currently not being used in VCL.
- **EOLEError**. This exception is raised when an OLE Automation error occurs.
 - **EOLESysError**. This exception is raised by the **OLECheck()** and **OLEError()** routines when an error occurs while calling an OLE API function.
 - **OLEException**. Raised when an error occurs inside of a **safecall** function or procedure.
- **EOutlineError**. This is a generic exception that's raised when an error occurs while working with a **TOutline** component.
- **EOutOfMemory**. This exception is raised when you call **New()**, **GetMem()**, or a class constructor and not enough memory is available on the heap for the allocation. This exception corresponds to runtime error 203.
 - **EOutOfResources**. This exception occurs when Windows cannot fill an allocation request for a Windows resource, such as a window handle. This exception often reflects bugs in your video driver, especially if you're running in a high-color (32KB or 64KB colors) mode. If this error goes away when you switch to using the standard Windows VGA driver or to a lesser mode of your normal video driver, it's very likely that you've found a bug in your video driver. Contact your video card manufacturer for a driver update.
- **EPackageError**. Raised when an error occurs loading, initializing, or finalizing a package.
- **EParserError**. Raised when Delphi is unable to parse your text form file back to the binary DFM format. Generally, this is the result of a syntax error while editing the form in the IDE.
- **EPrinter**. This is a generic exception that will be raised when an error occurs while you're trying to use the **TPrinter** object.
- **EPrivilege**. This exception indicates that an attempt was made to execute a privileged instruction.
- **EPropertyError**. This exception is raised when an error occurs inside of a component property editor.
- **ERegistryException**. The **TRegistry** and **TRegIniFile** objects raise this exception when an error occurs while reading from or writing to the system Registry.

- **EStackOverflow**. This exception represents a serious operating system–level error in management of the stack. This error should be rare since an application’s stack is dynamically expanded as needed by the operating system, but can occur in low-memory conditions.
- **EReportError**. This is a generic exception for an error that occurs while working with a report component.
- **EResNotFound**. This exception is raised when there are problems loading a form from a DFM file. This exception usually indicates that you’ve edited the DFM file to make it invalid, the DFM or EXE file has become corrupted, or the DFM file was not linked into the EXE. Make sure you haven’t deleted or altered the `{$R * .DFM}` directive in your form unit.
- **EStreamError**. This exception is the base class of all stream exceptions. This exception usually indicates a problem loading a `TStrings` from a stream or setting the capacity of a memory stream. The following descendent exception classes signal other specific error conditions:
 - **ECreateError**. Raised when an error occurs while creating a stream file. This exception often indicates that a file can’t be created because the filename is invalid or in use by another process.
 - **EFileError**. This exception is raised when you attempt to register the same class twice using the `RegisterClasses()` procedure. This class also serves as the base for other filer-related exceptions:
 - **EClassNotFound**. This exception is raised when Delphi reads a component class name from a stream but cannot find a declaration for the component in its corresponding unit. Remember that code and declarations that are not used by a program will not be copied into the EXE file by Delphi’s smart linker.
 - **EInvalidImage**. This exception is raised when you attempt to read components from an invalid resource file.
 - **EMethodNotFound**. This exception is raised when a method specified in the DFM file or resource does not exist in the corresponding unit. This can happen if you’ve deleted code from the unit, recompiled the EXE, ignored the many warnings about the DFM file containing references to deleted code, and run the EXE anyway.
 - **EReadError**. This exception occurs when your application doesn’t read the number of bytes from a stream that it’s supposed to (for example, unexpected end of file) or when Delphi cannot read a property.

- `EFOPenError`. This exception is raised when the specified stream file cannot be opened; it usually occurs when the file does not exist.
- `EStringListError`. This is a generic exception that's raised when an error condition results while working with a `TStringList` object.
- `EThread`. This is a `TThread`-related exception. Currently, this exception is only raised when a user attempts to call `Synchronize()` on a waiting thread.
- `ETreeViewError`. This exception is raised when you pass an invalid item index to a `TTreeView` method or property.
- `EWin32Error`. This exception is raised when an error occurs calling a Win32 API function. The message associated with this exception has error code and error string information.

Win32 System Errors

When you encounter an error in calling a Win32 API function or procedure, the error code is typically obtained by calling the `GetLastError()` function. Because the value returned from `GetLastError()` is a `DWORD` number, it's sometimes difficult to match that with an actual explanation of what might be the problem. To help you better decipher error codes, Table A.1 contains a list of the constant identifiers and values for the errors and a short description for each.

TABLE A.1 Win32 Error Codes

<i>Constant</i>	<i>Value</i>	<i>Description</i>
<code>ERROR_SUCCESS</code>	0	The operation completed successfully.
<code>ERROR_INVALID_FUNCTION</code>	1	The function is incorrect.
<code>ERROR_FILE_NOT_FOUND</code>	2	The system cannot find the file specified.
<code>ERROR_PATH_NOT_FOUND</code>	3	The system cannot find the path specified.
<code>ERROR_TOO_MANY_OPEN_FILES</code>	4	The system cannot open the file.
<code>ERROR_ACCESS_DENIED</code>	5	Access is denied.
<code>ERROR_INVALID_HANDLE</code>	6	The handle is invalid.
<code>ERROR_ARENA_TRASHED</code>	7	The storage control blocks were destroyed.
<code>ERROR_NOT_ENOUGH_MEMORY</code>	8	Not enough storage is available to process this command.
<code>ERROR_INVALID_BLOCK</code>	9	The storage control block address is invalid.
<code>ERROR_BAD_ENVIRONMENT</code>	10	The environment is incorrect.
<code>ERROR_BAD_FORMAT</code>	11	An attempt was made to load a program with an incorrect format.

continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INVALID_ACCESS	12	The access code is invalid.
ERROR_INVALID_DATA	13	The data is invalid.
ERROR_OUTOFMEMORY	14	Not enough storage is available to complete this operation.
ERROR_INVALID_DRIVE	15	The system cannot find the drive specified.
ERROR_CURRENT_DIRECTORY	\$10	The directory cannot be removed.
ERROR_NOT_SAME_DEVICE	17	The system cannot move the file to a different disk drive.
ERROR_NO_MORE_FILES	18	There are no more files.
ERROR_WRITE_PROTECT	19	The media is write-protected.
ERROR_BAD_UNIT	20	The system cannot find the device specified.
ERROR_NOT_READY	21	The device is not ready.
ERROR_BAD_COMMAND	22	The device does not recognize the command.
ERROR_CRC	23	A data error (cyclic redundancy check) has occurred.
ERROR_BAD_LENGTH	24	The program issued a command, but the command length is incorrect.
ERROR_SEEK	25	The drive cannot locate a specific area or track on the disk.
ERROR_NOT_DOS_DISK	26	The specified disk or diskette cannot be accessed.
ERROR_SECTOR_NOT_FOUND	27	The drive cannot find the sector requested.
ERROR_OUT_OF_PAPER	28	The printer is out of paper.
ERROR_WRITE_FAULT	29	The system cannot write to the specified device.
ERROR_READ_FAULT	30	The system cannot read from the specified device.
ERROR_GEN_FAILURE	31	A device attached to the system is not functioning.
ERROR_SHARING_VIOLATION	\$20	The process cannot access the file because another process is using it.
ERROR_LOCK_VIOLATION	33	The process cannot access the file because another process has locked a portion of the file.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_WRONG_DISK	34	The wrong diskette is in the drive. Insert %2 (Volume Serial Number: %3) into drive %1.
ERROR_SHARING_BUFFER_EXCEEDED	36	Too many files have been opened for sharing.
ERROR_HANDLE_EOF	38	The end of the file has been reached.
ERROR_HANDLE_DISK_FULL	39	The disk is full.
ERROR_NOT_SUPPORTED	50	The network request is not supported.
ERROR_REM_NOT_LIST	51	The remote computer is not available.
ERROR_DUP_NAME	52	A duplicate name exists on the network.
ERROR_BAD_NETPATH	53	The network path was not found.
ERROR_NETWORK_BUSY	54	The network is busy.
ERROR_DEV_NOT_EXIST	55	The specified network resource or device is no longer available.
ERROR_TOO_MANY_CMDS	56	The network BIOS command limit has been reached.
ERROR_ADAP_HDW_ERR	57	A network adapter hardware error occurred.
ERROR_BAD_NET_RESP	58	The specified server cannot perform the requested operation.
ERROR_UNEXP_NET_ERR	59	An unexpected network error has occurred.
ERROR_BAD_REM_ADAP	60	The remote adapter is not compatible.
ERROR_PRINTQ_FULL	61	The printer queue is full.
ERROR_NO_SPOOL_SPACE	62	Space to store the file waiting to be printed is not available on the server.
ERROR_PRINT_CANCELLED	63	Your file waiting to be printed was deleted.
ERROR_NETNAME_DELETED	\$40	The specified network name is no longer available.
ERROR_NETWORK_ACCESS_DENIED	65	Network access is denied.
ERROR_BAD_DEV_TYPE	66	The network resource type is not correct.
ERROR_BAD_NET_NAME	67	The network name cannot be found.
ERROR_TOO_MANY_NAMES	68	The name limit for the local computer network adapter card was exceeded.
ERROR_TOO_MANY_SESS	69	The network BIOS session limit was exceeded.
ERROR_SHARING_PAUSED	70	The remote server has been paused or is in the process of being started.

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_REQ_NOT_ACCEP	71	No more connections can be made to this remote computer at this time because there are already as many connections as the computer can accept.
ERROR_REDIR_PAUSED	72	The specified printer or disk device has been paused.
ERROR_FILE_EXISTS	80	The file exists.
ERROR_CANNOT_MAKE	82	The directory or file cannot be created.
ERROR_FAIL_I24	83	A failure has occurred on INT 24.
ERROR_OUT_OF_STRUCTURES	84	Storage to process this request is not available.
ERROR_OUT_OF_STRUCTURES	85	The local device name is already in use.
ERROR_INVALID_PASSWORD	86	The specified network password is not correct.
ERROR_INVALID_PARAMETER	87	The parameter is incorrect.
ERROR_NET_WRITE_FAULT	88	A write fault occurred on the network.
ERROR_NO_PROC_SLOTS	89	The system cannot start another process at this time.
ERROR_TOO_MANY_SEMAPHORES	100	Another system semaphore cannot be created.
ERROR_EXCL_SEM_ALREADY_OWNED	101	The exclusive semaphore is owned by another process.
ERROR_SEM_IS_SET	102	The semaphore is set and cannot be closed.
ERROR_TOO_MANY_SEM_REQUESTS	103	The semaphore cannot be set again.
ERROR_INVALID_AT_INTERRUPT_TIME	104	Exclusive semaphores cannot be requested at interrupt time.
ERROR_SEM_OWNER_DIED	105	The previous ownership of this semaphore has ended.
ERROR_SEM_USER_LIMIT	106	Insert the diskette for drive %1.
ERROR_DISK_CHANGE	107	The program has stopped because an alternate diskette was not inserted.
ERROR_DRIVE_LOCKED	108	The disk is in use or locked by another process.
ERROR_BROKEN_PIPE	109	The pipe has been ended.
ERROR_OPEN_FAILED	110	The system cannot open the device or file specified.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_BUFFER_OVERFLOW	111	The filename is too long.
ERROR_DISK_FULL	112	The disk does not contain enough space.
ERROR_NO_MORE_SEARCH_HANDLES	113	No more internal file identifiers are available.
ERROR_INVALID_TARGET_HANDLE	114	The target internal file identifier is incorrect.
ERROR_INVALID_CATEGORY	117	The IOCTL call made by the application program is not correct.
ERROR_INVALID_VERIFY_SWITCH	118	The verify-on-write switch parameter value is not correct.
ERROR_BAD_DRIVER_LEVEL	119	The system does not support the command requested.
ERROR_CALL_NOT_IMPLEMENTED	120	This function is only valid in Windows NT mode.
ERROR_SEM_TIMEOUT	121	The semaphore timeout period has expired.
ERROR_INSUFFICIENT_BUFFER	122	The data area passed to a system call is too small.
ERROR_INVALID_NAME	123	The filename, directory name, or volume label syntax is incorrect.
ERROR_INVALID_LEVEL	124	The system call level is not correct.
ERROR_NO_VOLUME_LABEL	125	The disk has no volume label.
ERROR_MOD_NOT_FOUND	126	The specified module could not be found.
ERROR_PROC_NOT_FOUND	127	The specified procedure could not be found.
ERROR_WAIT_NO_CHILDREN	\$80	There are no child processes to wait for.
ERROR_CHILD_NOT_COMPLETE	129	The %1 application cannot run in Windows NT mode.
ERROR_DIRECT_ACCESS_HANDLE	130	An attempt was made to use a file handle to an open disk partition for an operation other than raw disk I/O.
ERROR_NEGATIVE_SEEK	131	An attempt was made to move the file pointer before the beginning of the file.
ERROR_SEEK_ON_DEVICE	132	The file pointer cannot be set on the specified device or file.
ERROR_IS_JOIN_TARGET	133	A JOIN or SUBST command cannot be used for a drive that contains previously joined drives.

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ERROR MESSAGES
AND EXCEPTIONS*continues*

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_IS_JOINED	134	An attempt was made to use a JOIN or SUBST command on a drive that has already been joined.
ERROR_IS_SUBSTED	135	An attempt was made to use a JOIN or SUBST command on a drive that has already been substituted.
ERROR_NOT_JOINED	136	The system tried to delete the join of a drive that's not joined.
ERROR_NOT_SUBSTED	137	The system tried to delete the substitution of a drive that's not substituted.
ERROR_JOIN_TO_JOIN	138	The system tried to join a drive to a directory on a joined drive.
ERROR_SUBST_TO_SUBST	139	The system tried to substitute a drive to a directory on a substituted drive.
ERROR_JOIN_TO_SUBST	140	The system tried to join a drive to a directory on a substituted drive.
ERROR_SUBST_TO_JOIN	141	The system tried to perform a SUBST command on a drive to a directory on a joined drive.
ERROR_BUSY_DRIVE	142	The system cannot perform a JOIN or SUBST operation at this time.
ERROR_SAME_DRIVE	143	The system cannot join or substitute a drive to or for a directory on the same drive.
ERROR_DIR_NOT_ROOT	144	The directory is not a subdirectory of the root directory.
ERROR_DIR_NOT_EMPTY	145	The directory is not empty.
ERROR_IS_SUBST_PATH	146	The path specified is being used in a substitute.
ERROR_IS_JOIN_PATH	147	Not enough resources are available to process this command.
ERROR_PATH_BUSY	148	The path specified cannot be used at this time.
ERROR_IS_SUBST_TARGET	149	An attempt was made to join or substitute a drive for which a directory on the drive is the target of a previous substitute.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_SYSTEM_TRACE	150	System trace information was not specified in your CONFIG.SYS file or tracing is disallowed.
ERROR_INVALID_EVENT_COUNT	151	The number of specified semaphore events for DosMuxSemWait is not correct.
ERROR_TOO_MANY_MUXWAITERS	152	DosMuxSemWait did not execute; too many semaphores are already set.
ERROR_INVALID_LIST_FORMAT	153	The DosMuxSemWait list is not correct.
ERROR_LABEL_TOO_LONG	154	The volume label you entered exceeds the 11-character limit. The first 11 characters were written to disk. Any characters that exceeded the 11-character limit were automatically deleted.
ERROR_TOO_MANY_TCBS	155	Cannot create another thread.
ERROR_SIGNAL_REFUSED	156	The recipient process has refused the signal.
ERROR_DISCARDED	157	The segment is already discarded and cannot be locked.
ERROR_NOT_LOCKED	158	The segment is already unlocked.
ERROR_BAD_THREADID_ADDR	159	The address for the thread ID is not correct.
ERROR_BAD_ARGUMENTS	160	The argument string passed to DosExecPgm is not correct.
ERROR_BAD_PATHNAME	161	The specified path is invalid.
ERROR_SIGNAL_PENDING	162	A signal is already pending.
ERROR_MAX_THRDS_REACHED	164	No more threads can be created in the system.
ERROR_LOCK_FAILED	167	A region of a file cannot be locked.
ERROR_BUSY	170	The requested resource is in use.
ERROR_CANCEL_VIOLATION	173	A lock request was not outstanding for the supplied cancel region.
ERROR_ATOMIC_LOCKS_NOT_SUPPORTED	174	The file system does not support atomic changes to the lock type.
ERROR_INVALID_SEGMENT_NUMBER	180	The system detected a segment number that was not correct.
ERROR_INVALID_ORDINAL	182	The operating system cannot run %1.
ERROR_ALREADY_EXISTS	183	Cannot create a file when that file already exists.

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ERROR MESSAGES
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continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INVALID_FLAG_NUMBER	186	The flag passed is not correct.
ERROR_SEM_NOT_FOUND	187	The specified system semaphore name was not found.
ERROR_INVALID_STARTING_CODESEG	188	The operating system cannot run %1.
ERROR_INVALID_STACKSEG	189	The operating system cannot run %1.
ERROR_INVALID_MODULETYPE	190	The operating system cannot run %1.
ERROR_INVALID_EXE_SIGNATURE	191	Windows NT mode cannot run %1.
ERROR_EXE_MARKED_INVALID	192	The operating system cannot run %1.
ERROR_BAD_EXE_FORMAT	193	%1 is not a valid Windows NT application.
ERROR_ITERATED_DATA_EXCEEDS_64k	194	The operating system cannot run %1.
ERROR_INVALID_MINALLOCSIZE	195	The operating system cannot run %1.
ERROR_DYNLINK_FROM_INVALID_RING	196	The operating system cannot run this application program.
ERROR_IOPL_NOT_ENABLED	197	The operating system is not presently configured to run this application.
ERROR_INVALID_SEGDPL	198	The operating system cannot run %1.
ERROR_AUTODATASEG_EXCEEDS_64k	199	The operating system cannot run this application program.
ERROR_RING2SEG_MUST_BE_MOVABLE	200	The code segment cannot be greater than or equal to 64KB.
ERROR_RELOC_CHAIN_XCEEDS_SEGLIM	201	The operating system cannot run %1.
ERROR_INFLOOP_IN_RELOC_CHAIN	202	The operating system cannot run %1.
ERROR_ENVVAR_NOT_FOUND	203	The system could not find the environment option that was entered.
ERROR_NO_SIGNAL_SENT	205	No process in the command subtree has a signal handler.
ERROR_FILENAME_EXCED_RANGE	206	The filename or extension is too long.
ERROR_RING2_STACK_IN_USE	207	The ring 2 stack is in use.
ERROR_META_EXPANSION_TOO_LONG	208	The global filename characters (such as * and ?) are entered incorrectly or too many global filename characters are specified.
ERROR_INVALID_SIGNAL_NUMBER	209	The signal being posted is not correct.
ERROR_THREAD_1_INACTIVE	210	The signal handler cannot be set.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_LOCKED	212	The segment is locked and cannot be reallocated.
ERROR_TOO_MANY_MODULES	214	Too many dynamic link modules are attached to this program or dynamic link module.
ERROR_NESTING_NOT_ALLOWED	215	Calls can't be nested to LoadModule.
ERROR_BAD_PIPE	230	The pipe state is invalid.
ERROR_PIPE_BUSY	231	All pipe instances are busy.
ERROR_NO_DATA	232	The pipe is being closed.
ERROR_PIPE_NOT_CONNECTED	233	No process is on the other end of the pipe.
ERROR_MORE_DATA	234	More data is available.
ERROR_VC_DISCONNECTED	240	The session was cancelled.
ERROR_INVALID_EA_NAME	254	The specified extended attribute name was invalid.
ERROR_EA_LIST_INCONSISTENT	255	The extended attributes are inconsistent.
ERROR_NO_MORE_ITEMS	259	No more data is available.
ERROR_CANNOT_COPY	266	The Copy API cannot be used.
ERROR_DIRECTORY	267	The directory name is invalid.
ERROR_EAS_DIDNT_FIT	275	The extended attributes did not fit in the buffer.
ERROR_EA_FILE_CORRUPT	276	The extended attribute file on the mounted file system is corrupt.
ERROR_EA_TABLE_FULL	277	The extended attribute table file is full.
ERROR_INVALID_EA_HANDLE	278	The specified extended attribute handle is invalid.
ERROR_EAS_NOT_SUPPORTED	282	The mounted file system does not support extended attributes.
ERROR_NOT_OWNER	288	An attempt has been made to release a mutex not owned by the caller.
ERROR_TOO_MANY_POSTS	298	Too many posts were made to a semaphore.
ERROR_PARTIAL_COPY	299	Only part of a Read/Write ProcessMemory request was completed.
ERROR_MR_MID_NOT_FOUND	317	The system cannot find a message for message number %1 in message file for %2.
ERROR_INVALID_ADDRESS	487	Attempt to access invalid address.

continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_ARITHMETIC_OVERFLOW	534	The arithmetic result exceeded 32 bits.
ERROR_PIPE_CONNECTED	535	A process is on the other end of the pipe.
ERROR_PIPE_LISTENING	536	A pipe is waiting for a process to open the other end of the pipe.
ERROR_EA_ACCESS_DENIED	994	Access to the extended attribute was denied.
ERROR_OPERATION_ABORTED	995	The I/O operation has been aborted because of a thread exit or an application request.
ERROR_IO_INCOMPLETE	996	The overlapped I/O event is not in a signaled state.
ERROR_IO_PENDING	997	The overlapped I/O operation is in progress.
ERROR_NOACCESS	998	Access to the memory location is invalid.
ERROR_SWAPERROR	999	An error has occurred in performing in page operation.
ERROR_STACK_OVERFLOW	1001	Recursion is too deep and the stack overflowed.
ERROR_INVALID_MESSAGE	1002	The window cannot act on the sent message.
ERROR_CAN_NOT_COMPLETE	1003	This function cannot be completed.
ERROR_INVALID_FLAGS	1004	Flags are invalid.
ERROR_UNRECOGNIZED_VOLUME	1005	The volume does not contain a recognized file system. Make sure that all required file system drivers are loaded and that the volume is not corrupt.
ERROR_FILE_INVALID	1006	The volume for a file has been externally altered such that the opened file is no longer valid.
ERROR_FULLSCREEN_MODE	1007	The requested operation cannot be performed in full-screen mode.
ERROR_NO_TOKEN	1008	An attempt was made to reference a token that does not exist.
ERROR_BADDB	1009	The configuration Registry database is corrupt.
ERROR_BADKEY	1010	The configuration Registry key is invalid.
ERROR_CANTOPEN	1011	The configuration Registry key could not be opened.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_CANTREAD	1012	The configuration Registry key could not be read.
ERROR_CANTWRITE	1013	The configuration Registry key could not be written.
ERROR_REGISTRY_RECOVERED	1014	One of the files in the Registry database had to be recovered by use of a log or alternate copy. The recovery was successful.
ERROR_REGISTRY_CORRUPT	1015	The Registry is corrupt. The structure of one of the files that contains Registry data is corrupt, the system's image of the file in memory is corrupt, or the file could not be recovered because the alternate copy or log was absent or corrupt.
ERROR_REGISTRY_IO_FAILED	1016	An I/O operation initiated by the Registry failed and was unable to be recovered. The Registry could not read in, write out, or flush one of the files that contains the system's image of the Registry.
ERROR_NOT_REGISTRY_FILE	1017	The system has attempted to load or restore a file into the Registry, but the specified file is not in a Registry file format.
ERROR_KEY_DELETED	1018	An illegal operation was attempted on a Registry key that has been marked for deletion.
ERROR_NO_LOG_SPACE	1019	The system could not allocate the required space in a Registry log.
ERROR_KEY_HAS_CHILDREN	1020	A symbolic link could not be created in a Registry key that already has subkeys or values.
ERROR_CHILD_MUST_BE_VOLATILE	1021	A stable subkey under a volatile parent key could not be created.
ERROR_NOTIFY_ENUM_DIR	1022	A "notify change" request is being completed, and the information is not being returned in the caller's buffer. The caller now needs to enumerate the files to find the changes.
ERROR_DEPENDENT_SERVICES_RUNNING	1051	A stop control has been sent to a service upon which other running services depend.

continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INVALID_SERVICE_CONTROL	1052	The requested control is not valid for this service.
ERROR_SERVICE_REQUEST_TIMEOUT	1053	The service did not respond to the start or control request in a timely fashion.
ERROR_SERVICE_NO_THREAD	1054	A thread could not be created for the service.
ERROR_SERVICE_DATABASE_LOCKED	1055	The service database is locked.
ERROR_SERVICE_ALREADY_RUNNING	1056	An instance of the service is already running.
ERROR_INVALID_SERVICE_ACCOUNT	1057	The account name is invalid or does not exist.
ERROR_SERVICE_DISABLED	1058	The specified service is disabled and cannot be started.
ERROR_CIRCULAR_DEPENDENCY	1059	A circular service dependency was specified.
ERROR_SERVICE_DOES_NOT_EXIST	1060	The specified service does not exist as an installed service.
ERROR_SERVICE_CANNOT_ACCEPT_CTRL	1061	The service cannot accept control messages at this time.
ERROR_SERVICE_NOT_ACTIVE	1062	The service has not been started.
ERROR_FAILED_SERVICE_CONTROLLER	1063	The service process could not connect to the service controller.
ERROR_EXCEPTION_IN_SERVICE	1064	An exception occurred in the service when handling the control request.
ERROR_DATABASE_DOES_NOT_EXIST	1065	The database specified does not exist.
ERROR_SERVICE_SPECIFIC_ERROR	1066	The service has returned a service-specific error code.
ERROR_PROCESS_ABORTED	1067	The process terminated unexpectedly.
ERROR_SERVICE_DEPENDENCY_FAIL	1068	The dependency service or group failed to start.
ERROR_SERVICE_LOGON_FAILED	1069	The service did not start due to a logon failure.
ERROR_SERVICE_START_HANG	1070	After starting, the service hung up in a start-pending state.
ERROR_INVALID_SERVICE_LOCK	1071	The specified service database lock is invalid.
ERROR_SERVICE_MARKED_FOR_DELETE	1072	The specified service has been marked for deletion.
ERROR_SERVICE_EXISTS	1073	The specified service already exists.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_ALREADY_RUNNING_LKG	1074	The system is currently running with the last-known-good configuration.
ERROR_SERVICE_DEPENDENCY_DELETED	1075	The dependency service does not exist or has been marked for deletion.
ERROR_BOOT_ALREADY_ACCEPTED	1076	The current boot has already been accepted for use as the last-known-good control set.
ERROR_SERVICE_NEVER_STARTED	1077	No attempts to start the service have been made since the last boot.
ERROR_DUPLICATE_SERVICE_NAME	1078	The name is already in use as either a service name or a service display name.
ERROR_END_OF_MEDIA	1100	The physical end of the tape has been reached.
ERROR_FILEMARK_DETECTED	1101	A tape access reached a filemark.
ERROR_BEGINNING_OF_MEDIA	1102	The beginning of the tape or partition was encountered.
ERROR_SETMARK_DETECTED	1103	A tape access reached the end of a set of files.
ERROR_NO_DATA_DETECTED	1104	No more data is on the tape.
ERROR_PARTITION_FAILURE	1105	The tape could not be partitioned.
ERROR_INVALID_BLOCK_LENGTH	1106	During the access of a new tape of a multivolume partition, the current block size is incorrect.
ERROR_DEVICE_NOT_PARTITIONED	1107	The tape partition information could not be found when a tape was loaded.
ERROR_UNABLE_TO_LOCK_MEDIA	1108	The media-eject mechanism could not be locked.
ERROR_UNABLE_TO_UNLOAD_MEDIA	1109	The media could not be loaded.
ERROR_MEDIA_CHANGED	1110	The media in the drive may have changed.
ERROR_BUS_RESET	1111	The I/O bus was reset.
ERROR_NO_MEDIA_IN_DRIVE	1112	No media was in the drive.
ERROR_NO_UNICODE_TRANSLATION	1113	No mapping for the Unicode character exists in the target multibyte code page.
ERROR_DLL_INIT_FAILED	1114	A dynamic link library (DLL) initialization routine failed.
ERROR_SHUTDOWN_IN_PROGRESS	1115	A system shutdown is in progress.

*continues***A****ERROR MESSAGES
AND EXCEPTIONS**

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_NO_SHUTDOWN_IN_PROGRESS	1116	The system shutdown could not be aborted because no shutdown was in progress.
ERROR_IO_DEVICE	1117	The request could not be performed because of an I/O device error.
ERROR_SERIAL_NO_DEVICE	1118	No serial device was successfully initialized. The serial driver will unload.
ERROR_IRQ_BUSY	1119	A device could not be opened that was sharing an interrupt request (IRQ) with other devices. At least one other device that uses that IRQ was already opened.
ERROR_MORE_WRITES	1120	A serial I/O operation was completed by another write to the serial port. (IOCTL_SERIAL_XOFF_COUNTER reached zero.)
ERROR_COUNTER_TIMEOUT	1121	A serial I/O operation completed because the timeout period expired. (IOCTL_SERIAL_XOFF_COUNTER did not reach zero.)
ERROR_FLOPPY_ID_MARK_NOT_FOUND	1122	No ID address mark was found on the floppy disk.
ERROR_FLOPPY_WRONG_CYLINDER	1123	A mismatch occurred between the floppy disk sector ID field and the floppy disk controller track address.
ERROR_FLOPPY_UNKNOWN_ERROR	1124	The floppy disk controller reported an error that the floppy disk driver does not recognize.
ERROR_FLOPPY_BAD_REGISTERS	1125	The floppy disk controller returned inconsistent results in its registers.
ERROR_DISK_RECALIBRATE_FAILED	1126	During a hard disk access, a recalibrate operation failed, even after retries.
ERROR_DISK_OPERATION_FAILED	1127	During a hard disk access, a disk operation failed, even after retries.
ERROR_DISK_RESET_FAILED	1128	During a hard disk access, a disk controller reset was needed, but even that failed.
ERROR_EOM_OVERFLOW	1129	The physical end of the tape was encountered.
ERROR_NOT_ENOUGH_SERVER_MEMORY	1130	Not enough server storage is available to process this command.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_POSSIBLE_DEADLOCK	1131	A potential deadlock condition has been detected.
ERROR_MAPPED_ALIGNMENT	1132	The base address or the file offset specified does not have the proper alignment.
ERROR_SET_POWER_STATE_VETOED	1140	An attempt to change the system power state was vetoed by another application or driver.
ERROR_SET_POWER_STATE_FAILED	1141	The system BIOS failed an attempt to change the system power state.
ERROR_OLD_WIN_VERSION	1150	The specified program requires a newer version of Windows.
ERROR_APP_WRONG_OS	1151	The specified program is not a Windows or MS-DOS program.
ERROR_SINGLE_INSTANCE_APP	1152	You cannot start more than one instance of the specified program.
ERROR_RMODE_APP	1153	You cannot start more than one instance of the specified program.
ERROR_INVALID_DLL	1154	One of the library files needed to run this application is damaged.
ERROR_NO_ASSOCIATION	1155	No application is associated with the specified file for this operation.
ERROR_DDE_FAIL	1156	An error occurred in sending the command to the application.
ERROR_DLL_NOT_FOUND	1157	One of the library files needed to run this application cannot be found.
ERROR_BAD_USERNAME	2202	The specified username is invalid.
ERROR_NOT_CONNECTED	2250	This network connection does not exist.
ERROR_OPEN_FILES	2401	This network connection has files open or requests pending.
ERROR_ACTIVE_CONNECTIONS	2402	Active connections still exist.
ERROR_DEVICE_IN_USE	2404	The device is in use by an active process and cannot be disconnected.
ERROR_BAD_DEVICE	1200	The specified device name is invalid.
ERROR_CONNECTION_UNAVAIL	1201	The device is not currently connected, but it is a remembered connection.
ERROR_DEVICE_ALREADY_REMEMBERED	1202	An attempt was made to remember a device that had previously been remembered.

continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_NO_NET_OR_BAD_PATH	1203	No network provider accepted the given network path.
ERROR_BAD_PROVIDER	1204	The specified network provider name is invalid.
ERROR_CANNOT_OPEN_PROFILE	1205	The network connection profile could not be opened.
ERROR_BAD_PROFILE	1206	The network connection profile is corrupt.
ERROR_NOT_CONTAINER	1207	A noncontainer cannot be enumerated.
ERROR_EXTENDED_ERROR	1208	An extended error has occurred.
ERROR_INVALID_GROUPNAME	1209	The format of the specified group name is invalid.
ERROR_INVALID_COMPUTERNAME	1210	The format of the specified computer name is invalid.
ERROR_INVALID_EVENTNAME	1211	The format of the specified event name is invalid.
ERROR_INVALID_DOMAINNAME	1212	The format of the specified domain name is invalid.
ERROR_INVALID_SERVICENAME	1213	The format of the specified service name is invalid.
ERROR_INVALID_NETNAME	1214	The format of the specified network name is invalid.
ERROR_INVALID_SHARENAME	1215	The format of the specified share name is invalid.
ERROR_INVALID_PASSWORDNAME	1216	The format of the specified password is invalid.
ERROR_INVALID_MESSAGE_NAME	1217	The format of the specified message name is invalid.
ERROR_INVALID_MESSAGEDEST	1218	The format of the specified message destination is invalid.
ERROR_SESSION_CREDENTIAL_CONFLICT	1219	The credentials supplied conflict with an existing set of credentials.
ERROR_REMOTE_SESSION_LIMIT_EXCEEDED	1220	An attempt was made to establish a session to a network server, but too many sessions are already established to that server.
ERROR_DUP_DOMAINNAME	1221	Another computer on the network is already using the workgroup or domain name.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_NO_NETWORK	1222	The network is not present or not started.
ERROR_CANCELLED	1223	The user cancelled the operation.
ERROR_USER_MAPPED_FILE	1224	The requested operation cannot be performed on a file with a user-mapped section open.
ERROR_CONNECTION_REFUSED	1225	The remote system refused the network connection.
ERROR_GRACEFUL_DISCONNECT	1226	The network connection was gracefully closed.
ERROR_ADDRESS_ALREADY_ASSOCIATED	1227	The network transport endpoint already has an address associated with it.
ERROR_ADDRESS_NOT_ASSOCIATED	1228	An address has not yet been associated with the network endpoint.
ERROR_CONNECTION_INVALID	1229	An operation was attempted on a nonexistent network connection.
ERROR_CONNECTION_ACTIVE	1230	An invalid operation was attempted on an active network connection.
ERROR_NETWORK_UNREACHABLE	1231	The transport cannot reach the remote network.
ERROR_HOST_UNREACHABLE	1232	The transport cannot reach the remote system.
ERROR_PROTOCOL_UNREACHABLE	1233	The transport protocol cannot reach the remote system.
ERROR_PORT_UNREACHABLE	1234	No service is operating at the destination network endpoint on the remote system.
ERROR_REQUEST_ABORTED	1235	The request was aborted.
ERROR_CONNECTION_ABORTED	1236	The local system aborted the network connection.
ERROR_RETRY	1237	The operation could not be completed. A retry should be performed.
ERROR_CONNECTION_COUNT_LIMIT	1238	A connection to the server could not be made because the limit on the number of concurrent connections for this account has been reached.
ERROR_LOGIN_TIME_RESTRICTION	1239	An attempt was made to log in during an unauthorized time of day for this account.
ERROR_LOGIN_WKSTA_RESTRICTION	1240	The account is not authorized to log in from this station.

continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INCORRECT_ADDRESS	1241	The network address could not be used for the operation requested.
ERROR_ALREADY_REGISTERED	1242	The service is already registered.
ERROR_SERVICE_NOT_FOUND	1243	The specified service does not exist.
ERROR_NOT_AUTHENTICATED	1244	The operation being requested was not performed because the user has not been authenticated.
ERROR_NOT_LOGGED_ON	1245	The operation being requested was not performed because the user has not logged onto the network. The specified service does not exist.
ERROR_CONTINUE	1246	This is a return that wants the caller to continue with work in progress.
ERROR_ALREADY_INITIALIZED	1247	An attempt was made to perform an initialization operation when initialization has already been completed.
ERROR_NO_MORE_DEVICES	1248	No more local devices exist.
ERROR_NOT_ALL_ASSIGNED	1300	Not all privileges referenced are assigned to the caller.
ERROR_SOME_NOT_MAPPED	1301	Some mapping between account names and security IDs was not done.
ERROR_NO_QUOTAS_FOR_ACCOUNT	1302	No system quota limits are specifically set for this account.
ERROR_LOCAL_USER_SESSION_KEY	1303	No encryption key is available. A well-known encryption key was returned.
ERROR_NULL_LM_PASSWORD	1304	The NT password is too complex to be converted to a LAN Manager password. The LAN Manager password returned is a null string.
ERROR_UNKNOWN_REVISION	1305	The revision level is unknown.
ERROR_REVISION_MISMATCH	1306	The two revision levels are incompatible.
ERROR_INVALID_OWNER	1307	This security ID may not be assigned as the owner of this object.
ERROR_INVALID_PRIMARY_GROUP	1308	This security ID may not be assigned as the primary group of an object.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_NO_IMPERSONATION_TOKEN	1309	A thread that's not currently impersonating a client has made an attempt to operate on an impersonation token.
ERROR_CANT_DISABLE_MANDATORY	1310	The group may not be disabled.
ERROR_NO_LOGON_SERVERS	1311	No logon servers are currently available to service the logon request.
ERROR_NO_SUCH_LOGON_SESSION	1312	A specified logon session does not exist. It may already have been terminated.
ERROR_NO_SUCH_PRIVILEGE	1313	A specified privilege does not exist.
ERROR_PRIVILEGE_NOT_HELD	1314	A required privilege is not held by the client.
ERROR_INVALID_ACCOUNT_NAME	1315	The name provided is not a properly formed account name.
ERROR_USER_EXISTS	1316	The specified user already exists.
ERROR_NO_SUCH_USER	1317	The specified user does not exist.
ERROR_GROUP_EXISTS	1318	The specified group already exists.
ERROR_NO_SUCH_GROUP	1319	The specified group does not exist.
ERROR_MEMBER_IN_GROUP	1320	Either the specified user account is already a member of the specified group or the specified group cannot be deleted because it contains a member.
ERROR_MEMBER_NOT_IN_GROUP	1321	The specified user account is not a member of the specified group account.
ERROR_LAST_ADMIN	1322	The last remaining administration account cannot be disabled or deleted.
ERROR_WRONG_PASSWORD	1323	The password cannot be updated. The value provided as the current password is incorrect.
ERROR_ILL_FORMED_PASSWORD	1324	The password cannot be updated. The value provided for the new password contains values that are not allowed in passwords.
ERROR_PASSWORD_RESTRICTION	1325	The password cannot be updated because a password update rule has been violated.
ERROR_LOGON_FAILURE	1326	A logon failure has occurred: unknown user name or bad password.
ERROR_ACCOUNT_RESTRICTION	1327	A logon failure has occurred: user account restriction.

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ERROR MESSAGES
AND EXCEPTIONS*continues*

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INVALID_LOGON_HOURS	1328	A logon failure has occurred: Account logon time restriction violation.
ERROR_INVALID_WORKSTATION	1329	A logon failure has occurred: The user is not allowed to logon to this computer.
ERROR_PASSWORD_EXPIRED	1330	A logon failure has occurred: The specified account password has expired.
ERROR_ACCOUNT_DISABLED	1331	A logon failure has occurred: The account has been currently disabled.
ERROR_NONE_MAPPED	1332	No mapping between account names and security IDs was done.
ERROR_TOO_MANY_LUIDS_REQUESTED	1333	Too many local user identifiers (LUIDs) were requested at one time.
ERROR_LUIDS_EXHAUSTED	1334	No more local user identifiers (LUIDs) are available.
ERROR_INVALID_SUB_AUTHORITY	1335	The subauthority part of a security ID is invalid for this particular use.
ERROR_INVALID_ACL	1336	The Access Control List (ACL) structure is invalid.
ERROR_INVALID_SID	1337	The security ID structure is invalid.
ERROR_INVALID_SECURITY_DESCR	1338	The security descriptor structure is invalid.
ERROR_BAD_INHERITANCE_ACL	1340	The inherited Access Control List (ACL) or Access Control Entry (ACE) could not be built.
ERROR_SERVER_DISABLED	1341	The server is currently disabled.
ERROR_SERVER_NOT_DISABLED	1342	The server is currently enabled.
ERROR_INVALID_ID_AUTHORITY	1343	The value provided was an invalid value for an identifier authority.
ERROR_ALLOTTED_SPACE_EXCEEDED	1344	No more memory is available for security information updates.
ERROR_INVALID_GROUP_ATTRIBUTES	1345	The specified attributes are invalid or incompatible with the attributes for the group as a whole.
ERROR_BAD_IMPERSONATION_LEVEL	1346	Either a required impersonation level was not provided or the provided impersonation level is invalid.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_CANT_OPEN_ANONYMOUS	1347	An anonymous-level security token cannot be opened.
ERROR_BAD_VALIDATION_CLASS	1348	The validation information class requested was invalid.
ERROR_BAD_TOKEN_TYPE	1349	The type of the token is inappropriate for its attempted use.
ERROR_NO_SECURITY_ON_OBJECT	1350	A security operation could not be performed on an object that has no associated security.
ERROR_CANT_ACCESS_DOMAIN_INFO	1351	A Windows NT server could not be contacted or objects within the domain are protected such that necessary information could not be retrieved.
ERROR_INVALID_SERVER_STATE	1352	The Security Account Manager (SAM) or Local Security Authority (LSA) server was in the wrong state to perform the security operation.
ERROR_INVALID_DOMAIN_STATE	1353	The domain was in the wrong state to perform the security operation.
ERROR_INVALID_DOMAIN_ROLE	1354	This operation is only allowed for the Primary Domain Controller of the domain.
ERROR_NO_SUCH_DOMAIN	1355	The specified domain did not exist.
ERROR_DOMAIN_EXISTS	1356	The specified domain already exists.
ERROR_DOMAIN_LIMIT_EXCEEDED	1357	An attempt was made to exceed the limit on the number of domains per server.
ERROR_INTERNAL_DB_CORRUPTION	1358	The requested operation could not be completed because of a catastrophic media failure or a data structure corruption on the disk.
ERROR_INTERNAL_ERROR	1359	The security account database contains an internal inconsistency.
ERROR_GENERIC_NOT_MAPPED	1360	Generic access types were contained in an access mask that should already be mapped to nongeneric types.
ERROR_BAD_DESCRIPTOR_FORMAT	1361	A security descriptor is not in the correct format (absolute or self-relative).
ERROR_NOT_LOGON_PROCESS	1362	The requested action is restricted for use by logon processes only. The calling process has not been registered as a logon process.

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ERROR MESSAGES
AND EXCEPTIONS*continues*

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_LOGON_SESSION_EXISTS	1363	You cannot start a new logon session with an ID that's already in use.
ERROR_NO_SUCH_PACKAGE	1364	A specified authentication package is unknown.
ERROR_BAD_LOGON_SESSION_STATE	1365	The logon session is not in a state that's consistent with the requested operation.
ERROR_LOGON_SESSION_COLLISION	1366	The logon session ID is already in use.
ERROR_INVALID_LOGON_TYPE	1367	A logon request contained an invalid logon type value.
ERROR_CANNOT_IMPERSONATE	1368	You cannot impersonate via a named pipe until data has been read from that pipe.
ERROR_RXACT_INVALID_STATE	1369	The transaction state of a Registry subtree is incompatible with the requested operation.
ERROR_RXACT_COMMIT_FAILURE	1370	An internal security database corruption has been encountered.
ERROR_SPECIAL_ACCOUNT	1371	You cannot perform this operation on built-in accounts.
ERROR_SPECIAL_GROUP	1372	You cannot perform this operation on this built-in special group.
ERROR_SPECIAL_USER	1373	You cannot perform this operation on this built-in special user.
ERROR_MEMBERS_PRIMARY_GROUP	1374	The user cannot be removed from a group because the group is currently the user's primary group.
ERROR_TOKEN_ALREADY_IN_USE	1375	The token is already in use as a primary token.
ERROR_NO_SUCH_ALIAS	1376	The specified local group does not exist.
ERROR_MEMBER_NOT_IN_ALIAS	1377	The specified account name is not a member of the local group.
ERROR_MEMBER_IN_ALIAS	1378	The specified account name is already a member of the local group.
ERROR_ALIAS_EXISTS	1379	The specified local group already exists.
ERROR_LOGON_NOT_GRANTED	1380	A logon failure has occurred: The user has not been granted the requested logon type at this computer.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_TOO_MANY_SECRETS	1381	The maximum number of secrets that may be stored in a single system has been exceeded.
ERROR_SECRET_TOO_LONG	1382	The length of a secret exceeds the maximum length allowed.
ERROR_INTERNAL_DB_ERROR	1383	The Local Security Authority database contains an internal inconsistency.
ERROR_TOO_MANY_CONTEXT_IDS	1384	During a logon attempt, the user's security context accumulated too many security IDs.
ERROR_LOGON_TYPE_NOT_GRANTED	1385	A logon failure has occurred: The user has not been granted the requested logon type at this computer.
ERROR_NT_CROSS_ENCRYPTION_REQUIRE	1386	A cross-encrypted password is necessary to change a user password.
ERROR_NO_SUCH_MEMBER	1387	A new member could not be added to a local group because the member does not exist.
ERROR_INVALID_MEMBER	1388	A new member could not be added to a local group because the member has the wrong account type.
ERROR_TOO_MANY_SIDS	1389	Too many security IDs have been specified.
ERROR_LM_CROSS_ENCRYPTION_REQUIRE	1390	A cross-encrypted password is necessary to change this user password.
ERROR_NO_INHERITANCE	1391	Indicates a ACL contains no inheritable components.
ERROR_FILE_CORRUPT	1392	The file or directory is corrupt and unable to be read.
ERROR_DISK_CORRUPT	1393	The disk structure is corrupt and unable to be read.
ERROR_NO_USER_SESSION_KEY	1394	No user session key exists for the specified logon session.
ERROR_LICENSE_QUOTA_EXCEEDED	1395	The service being accessed is licensed for a particular number of connections. No more connections can be made to the service at this time because as many connections as the service can accept already exist.
ERROR_INVALID_WINDOW_HANDLE	1400	The window handle is invalid.
ERROR_INVALID_MENU_HANDLE	1401	The menu handle is invalid.

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ERROR MESSAGES
AND EXCEPTIONS*continues*

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INVALID_CURSOR_HANDLE	1402	The cursor handle is invalid.
ERROR_INVALID_ACCEL_HANDLE	1403	The accelerator table handle is invalid.
ERROR_INVALID_HOOK_HANDLE	1404	The hook handle is invalid.
ERROR_INVALID_DWP_HANDLE	1405	The handle to a multiple-window position structure is invalid.
ERROR_TLW_WITH_WSCHILD	1406	A top-level child window cannot be created.
ERROR_CANNOT_FIND_WND_CLASS	1407	A window class cannot be found.
ERROR_WINDOW_OF_OTHER_THREAD	1408	The window is invalid; it belongs to the other thread.
ERROR_HOTKEY_ALREADY_REGISTERED	1409	The hotkey is already registered.
ERROR_CLASS_ALREADY_EXISTS	1410	The class already exists.
ERROR_CLASS_DOES_NOT_EXIST	1411	The class does not exist.
ERROR_CLASS_HAS_WINDOWS	1412	The class still has open windows.
ERROR_INVALID_INDEX	1413	The index is invalid.
ERROR_INVALID_ICON_HANDLE	1414	The icon handle is invalid.
ERROR_PRIVATE_DIALOG_INDEX	1415	You're using private dialog window words.
ERROR_LISTBOX_ID_NOT_FOUND	1416	The list box identifier was not found.
ERROR_NO_WILDCARD_CHARACTERS	1417	No wildcards were found.
ERROR_CLIPBOARD_NOT_OPEN	1418	The thread does not have a Clipboard open.
ERROR_HOTKEY_NOT_REGISTERED	1419	The hotkey is not registered.
ERROR_WINDOW_NOT_DIALOG	1420	The window is not a valid dialog window.
ERROR_CONTROL_ID_NOT_FOUND	1421	The control ID was not found.
ERROR_INVALID_COMBOBOX_MESSAGE	1422	The message for a combo box was invalid because it does not have an edit control.
ERROR_WINDOW_NOT_COMBOBOX	1423	The window is not a combo box.
ERROR_INVALID_EDIT_HEIGHT	1424	The height must be less than 256 pixels.
ERROR_DC_NOT_FOUND	1425	The device context (DC) handle is invalid.
ERROR_INVALID_HOOK_FILTER	1426	The hook procedure type is invalid.
ERROR_INVALID_FILTER_PROC	1427	The hook procedure is invalid.
ERROR_HOOK_NEEDS_HMOD	1428	You cannot set a nonlocal hook without a module handle.
ERROR_GLOBAL_ONLY_HOOK	1429	This hook procedure can only be set globally.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_JOURNAL_HOOK_SET	1430	The journal hook procedure is already installed.
ERROR_HOOK_NOT_INSTALLED	1431	The hook procedure is not installed.
ERROR_INVALID_LB_MESSAGE	1432	The message for a single-selection list box is invalid.
ERROR_SETCOUNT_ON_BAD_LB	1433	LB_SETCOUNT was sent to a nonlazy list box.
ERROR_LB_WITHOUT_TABSTOPS	1434	This list box does not support tab stops.
ERROR_DESTROY_OBJECT_OF_OTHER_TH	1435	You cannot destroy an object created by another thread.
ERROR_CHILD_WINDOW_MENU	1436	Child windows cannot have menus.
ERROR_NO_SYSTEM_MENU	1437	The window does not have a system menu.
ERROR_INVALID_MSGBOX_STYLE	1438	The message box style is invalid.
ERROR_INVALID_SPI_VALUE	1439	The systemwide (SPI_*) parameter is invalid.
ERROR_SCREEN_ALREADY_LOCKED	1440	The screen is already locked.
ERROR_HWNDS_HAVE_DIFF_PARENT	1441	All handles to windows in a multiple-window position structure must have the same parent.
ERROR_NOT_CHILD_WINDOW	1442	The window is not a child window.
ERROR_INVALID_GW_COMMAND	1443	The GW_* command is invalid.
ERROR_INVALID_THREAD_ID	1444	The thread identifier is invalid.
ERROR_NON_MDICHILD_WINDOW	1445	A message cannot be processed from a window that's not a multiple-document interface (MDI) window.
ERROR_POPUP_ALREADY_ACTIVE	1446	The pop-up menu is already active.
ERROR_NO_SCROLLBARS	1447	The window does not have scrollbars.
ERROR_INVALID_SCROLLBAR_RANGE	1448	The scrollbar range cannot be greater than \$7FFF.
ERROR_INVALID_SHOWWIN_COMMAND	1449	You cannot show or remove the window in the way specified.
ERROR_EVENTLOG_FILE_CORRUPT	1500	The event log file is corrupt.
ERROR_EVENTLOG_CANT_START	1501	No event log file could be opened, so the event-logging service did not start.
ERROR_LOG_FILE_FULL	1502	The event log file is full.
ERROR_EVENTLOG_FILE_CHANGED	1503	The event log file has changed between reads.

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ERROR MESSAGES
AND EXCEPTIONS*continues*

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_INVALID_USER_BUFFER	1784	The supplied user buffer is not valid for the requested operation.
ERROR_UNRECOGNIZED_MEDIA	1785	The disk media is not recognized. It might not be formatted.
ERROR_NO_TRUST_LSA_SECRET	1786	The workstation does not have a trust secret.
ERROR_NO_TRUST_SAM_ACCOUNT	1787	The SAM database on the Windows NT server does not have a computer account for this workstation trust relationship.
ERROR_TRUSTED_DOMAIN_FAILURE	1788	The trust relationship between the primary domain and the trusted domain failed.
ERROR_TRUSTED_RELATIONSHIP_FAILU	1789	The trust relationship between this workstation and the primary domain failed.
ERROR_TRUST_FAILURE	1790	The network logon failed.
ERROR_NETLOGON_NOT_STARTED	1792	A remote procedure call is already in progress for this thread. An attempt was made to log on, but the network logon service was not started.
ERROR_ACCOUNT_EXPIRED	1793	The user's account has expired.
ERROR_REDIRECTOR_HAS_OPEN_HANDLE	1794	The redirector is in use and cannot be unloaded.
ERROR_PRINTER_DRIVER_ALREADY_INS	1795	The specified printer driver is already installed.
ERROR_UNKNOWN_PORT	1796	The specified port is unknown.
ERROR_UNKNOWN_PRINTER_DRIVER	1797	The printer driver is unknown.
ERROR_UNKNOWN_PRINTPROCESSOR	1798	The print processor is unknown.
ERROR_INVALID_SEPARATOR_FILE	1799	The specified separator file is invalid.
ERROR_INVALID_PRIORITY	1800	The specified priority is invalid.
ERROR_INVALID_PRINTER_NAME	1801	The printer name is invalid.
ERROR_PRINTER_ALREADY_EXISTS	1802	The printer already exists.
ERROR_INVALID_PRINTER_COMMAND	1803	The printer command is invalid.
ERROR_INVALID_DATATYPE	1804	The specified data type is invalid.
ERROR_INVALID_ENVIRONMENT	1805	The environment specified is invalid.
ERROR_NOLOGON_INTERDOMAIN_TRUST	1807	No more bindings exist. The account used is an interdomain trust account. Use your global user account or local user account to access this server.

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_NOLOGON_WORKSTATION_TRUST	1808	The account used is a computer account. Use your global user account or local user account to access this server.
ERROR_NOLOGON_SERVER_TRUST_ACCOUNT	1809	The account used is an server trust account. Use your global user account or local user account to access this server.
ERROR_DOMAIN_TRUST_INCONSISTENT	1810	The name or security ID (SID) of the domain specified is inconsistent with the trust information for that domain.
ERROR_SERVER_HAS_OPEN_HANDLES	1811	The server is in use and cannot be unloaded.
ERROR_RESOURCE_DATA_NOT_FOUND	1812	The specified image file did not contain a resource section.
ERROR_RESOURCE_TYPE_NOT_FOUND	1813	The specified resource type cannot be found in the image file.
ERROR_RESOURCE_NAME_NOT_FOUND	1814	The specified resource name cannot be found in the image file.
ERROR_RESOURCE_LANG_NOT_FOUND	1815	The specified resource language ID cannot be found in the image file.
ERROR_NOT_ENOUGH_QUOTA	1816	Not enough quota is available to process this command.
ERROR_INVALID_TIME	1901	The specified time is invalid.
ERROR_INVALID_FORM_NAME	1902	The specified form name is invalid.
ERROR_INVALID_FORM_SIZE	1903	The specified form size is invalid.
ERROR_ALREADY_WAITING	1904	The specified printer handle is already being waited on.
ERROR_PRINTER_DELETED	1905	The specified printer has been deleted.
ERROR_INVALID_PRINTER_STATE	1906	The state of the printer is invalid.
ERROR_PASSWORD_MUST_CHANGE	1907	The user must change his or her password before logging on for the first time.
ERROR_DOMAIN_CONTROLLER_NOT_FOUND	1908	The domain controller for this domain could not be found.
ERROR_ACCOUNT_LOCKED_OUT	1909	The referenced account is currently locked out and may not be logged on to.
ERROR_NO_BROWSER_SERVERS_FOUND	6118	The list of servers for this workgroup is not currently available.
ERROR_INVALID_PIXEL_FORMAT	2000	The pixel format is invalid.

continues

TABLE A.1 Continued

<i>Constant</i>	<i>Value</i>	<i>Description</i>
ERROR_BAD_DRIVER	2001	The specified driver is invalid.
ERROR_INVALID_WINDOW_STYLE	2002	The window style or class attribute is invalid for this operation.
ERROR_METAFILE_NOT_SUPPORTED	2003	The requested metafile operation is not supported.
ERROR_TRANSFORM_NOT_SUPPORTED	2004	The requested transformation operation is not supported.
ERROR_CLIPPING_NOT_SUPPORTED	2005	The requested clipping operation is not supported.
ERROR_UNKNOWN_PRINT_MONITOR	3000	The specified print monitor is unknown.
ERROR_PRINTER_DRIVER_IN_USE	3001	The specified printer driver is currently in use.
ERROR_SPOOL_FILE_NOT_FOUND	3002	The spool file was not found.
ERROR_SPL_NO_STARTDOC	3003	A StartDocPrinter call was not issued.
ERROR_SPL_NO_ADDJOB	3004	An AddJob call was not issued.
ERROR_PRINT_PROCESSOR_ALREADY_IN	3005	The specified print processor has already been installed.
ERROR_PRINT_MONITOR_ALREADY_INST	3006	The specified print monitor has already been installed.
ERROR_WINS_INTERNAL	4000	WINS encountered an error while processing the command.
ERROR_CAN_NOT_DEL_LOCAL_WINS	4001	The local WINS cannot be deleted.
ERROR_STATIC_INIT	4002	The importation from the file failed.
ERROR_INC_BACKUP	4003	The backup failed. Was a full backup done before?
ERROR_FULL_BACKUP	4004	The backup failed. Check the directory to which you are backing up the database.
ERROR_REC_NON_EXISTENT	4005	The name does not exist in the WINS database.
ERROR_RPL_NOT_ALLOWED	4006	Replication with an unconfigured partner is not allowed.