Foundation Constants Reference

Cocoa > Data Management



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Foundation Constants Reference

Framework: Foundation/Foundation.h

Declared in FoundationErrors.h

NSDecimal.h NSError.h NSException.h NSGeometry.h NSHashTable.h NSJavaSetup.h NSMapTable.h NSObjCRuntime.h NSURLError.h NSZone.h QTKitDefines.h

Overview

This document defines constants in the Foundation framework that are not associated with a particular class.

Constants

Enumerations

NSNotFound

Defines a value that indicates that an item requested couldn't be found or doesn't exist.

```
enum {
   NSNotFound = 0x7fffffff
}:
```

Constants

NSNotFound

A value that indicates that an item requested couldn't be found or doesn't exist.

Available in Mac OS X v10.0 and later.

Declared in NSObjCRuntime.h.

Discussion

NSNot Found is typically used by various methods and functions that search for items in serial data and return indices, such as characters in a string object or ids in an NSArray object.

Declared In

NSObjCRuntime.h

Memory Allocation

These constants are used as components in a bitfield to specify the behavior of NSAllocateCollectable and NSReallocateCollectable.

```
enum {
    NSScannedOption = (1<<0),
    NSCollectorDisabledOption = (2<<0),
};</pre>
```

Constants

NSScannedOption

Specifies allocation of scanned memory.

Available in Mac OS X v10.4 and later.

Declared in NSZone.h.

NSCollectorDisabledOption

Specifies that the block is retained, and therefore ineligible for collection.

Available in Mac OS X v10.5 and later.

Declared in NSZone.h.

Declared In

NSGarbageCollector.h

NSError Codes

NSError codes in the Cocoa error domain.

```
enum {
    NSFileNoSuchFileError = 4,
    NSFileLockingError = 255,
    NSFileReadUnknownError = 256,
    NSFileReadNoPermissionError = 257,
    NSFileReadInvalidFileNameError = 258,
    NSFileReadCorruptFileError = 259,
    NSFileReadNoSuchFileError = 260,
    NSFileReadInapplicableStringEncodingError = 261,
    NSFileReadUnsupportedSchemeError = 262,
    NSFileWriteUnknownError = 512,
    NSFileWriteNoPermissionError = 513.
    NSFileWriteInvalidFileNameError = 514,
    NSFileWriteInapplicableStringEncodingError = 517,
    NSFileWriteUnsupportedSchemeError = 518,
    NSFileWriteOutOfSpaceError = 640,
    NSKeyValueValidationError = 1024,
    NSFormattingError = 2048,
    NSUserCancelledError = 3072,
    NSFileErrorMinimum = 0,
    NSFileErrorMaximum = 1023,
    NSValidationErrorMinimum = 1024,
    NSValidationErrorMaximum = 2047.
    NSFormattingErrorMinimum = 2048,
    NSFormattingErrorMaximum = 2559,
    NSExecutableErrorMinimum = 3584,
    NSExecutableNotLoadableError = 3584,
    NSExecutableArchitectureMismatchError = 3585.
    NSExecutableRuntimeMismatchError = 3586,
    NSExecutableLoadError = 3587,
    NSExecutableLinkError = 3588,
    NSExecutableErrorMaximum = 3839
}
Constants
NSFileNoSuchFileError
     File-system operation attempted on non-existent file
     Available in Mac OS X v10.4 and later.
     Declared in FoundationErrors.h.
NSFileLockingError
     Failure to get a lock on file
     Available in Mac OS X v10.4 and later.
     Declared in FoundationErrors.h.
NSFileReadUnknownError
     Read error, reason unknown
     Available in Mac OS X v10.4 and later.
     Declared in FoundationErrors.h.
NSFileReadNoPermissionError
     Read error because of a permission problem
     Available in Mac OS X v10.4 and later.
     Declared in FoundationErrors.h.
```

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NSFileReadInvalidFileNameError

Read error because of an invalid file name

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileReadCorruptFileError

Read error because of a corrupted file, bad format, or similar reason

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileReadNoSuchFileError

Read error because no such file was found

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileReadInapplicableStringEncodingError

Read error because the string encoding was not applicable.

Access the bad encoding from the userInfo dictionary using the NSStringEncodingErrorKey key.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileReadUnsupportedSchemeError

Read error because the specified URL scheme is unsupported

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileWriteUnknownError

Write error, reason unknown

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileWriteNoPermissionError

Write error because of a permission problem

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileWriteInvalidFileNameError

Write error because of an invalid file name

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileWriteInapplicableStringEncodingError

Write error because the string encoding was not applicable.

Access the bad encoding from the userInfo dictionary using the NSStringEncodingErrorKey key.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileWriteUnsupportedSchemeError

Write error because the specified URL scheme is unsupported

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileWriteOutOfSpaceError

Write error because of a lack of disk space

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSKeyValueValidationError

Key-value coding validation error

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFormattingError

Formatting error (related to display of data)

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSUserCancelledError

The user cancelled the operation (for example, by pressing Command-period).

This code is for errors that do not require a dialog displayed and might be candidates for special-casing.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileErrorMinimum

Marks the start of the range of error codes reserved for file errors

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFileErrorMaximum

Marks the end of the range of error codes reserved for file errors

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSValidationErrorMinimum

Marks the start of the range of error codes reserved for validation errors.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSValidationErrorMaximum

Marks the start and end of the range of error codes reserved for validation errors.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSFormattingErrorMinimum

Marks the start of the range of error codes reserved for formatting errors.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

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NSFormattingErrorMaximum

Marks end of the range of error codes reserved for formatting errors.

Available in Mac OS X v10.4 and later.

Declared in FoundationErrors.h.

NSExecutableErrorMinimum

Marks beginning of the range of error codes reserved for errors related to executable files.

Available in Mac OS X v10.5 and later.

Declared in FoundationErrors.h.

NSExecutableNotLoadableError

Executable is of a type that is not loadable in the current process.

Available in Mac OS X v10.5 and later.

Declared in FoundationErrors.h.

NSExecutableArchitectureMismatchError

Executable does not provide an architecture compatible with the current process.

Available in Mac OS X v10.5 and later.

Declared in FoundationErrors.h.

NSExecutableRuntimeMismatchError

Executable has Objective C runtime information incompatible with the current process.

Available in Mac OS X v10.5 and later.

Declared in FoundationFrrors.h.

NSExecutableLoadError

Executable cannot be loaded for some other reason, such as a problem with a library it depends on.

Available in Mac OS X v10.5 and later.

Declared in FoundationErrors.h.

NSExecutableLinkError

Executable fails due to linking issues.

Available in Mac OS X v10.5 and later.

Declared in FoundationErrors.h.

NSExecutableErrorMaximum

Marks end of the range of error codes reserved for errors related to executable files.

Available in Mac OS X v10.5 and later.

Declared in FoundationErrors.h.

Discussion

The constants in this enumeration are NSError code numbers in the Cocoa error domain (NSCocoaErrorDomain). Other frameworks, most notably the Application Kit, provide their own NSCocoaErrorDomain error codes.

The enumeration constants beginning with NSFile indicate file-system errors or errors related to file I/O operations. Use the key NSFilePathErrorKey or the NSURLErrorKey (whichever is appropriate) to access the file-system path or URL in the userInfo dictionary of the NSError object.

Declared In

FoundationErrors.h

URL Loading System Error Codes

These values are returned as the error code property of an NSError object with the domain "NSURLErrorDomain".

```
typedef enum
   NSURLErrorUnknown = -1,
   NSURLErrorCancelled = -999.
   NSURLErrorBadURL = -1000,
   NSURLErrorTimedOut = -1001,
   NSURLErrorUnsupportedURL = -1002,
   NSURLErrorCannotFindHost = -1003,
   NSURLErrorCannotConnectToHost = -1004,
   NSURLErrorDataLengthExceedsMaximum = -1103.
   NSURLErrorNetworkConnectionLost = -1005,
   NSURLErrorDNSLookupFailed = -1006,
   NSURLErrorHTTPTooManyRedirects = -1007,
   NSURLErrorResourceUnavailable = -1008,
   NSURLErrorNotConnectedToInternet = -1009.
   NSURLErrorRedirectToNonExistentLocation = -1010.
   NSURLErrorBadServerResponse = -1011,
   NSURLErrorUserCancelledAuthentication = -1012,
   NSURLErrorUserAuthenticationRequired = -1013,
   NSURLErrorZeroByteResource = -1014,
   NSURLErrorFileDoesNotExist = -1100.
   NSURLErrorFileIsDirectory = -1101,
   NSURLErrorNoPermissionsToReadFile = -1102,
   NSURLErrorSecureConnectionFailed = -1200,
   NSURLErrorServerCertificateHasBadDate = -1201,
   NSURLErrorServerCertificateUntrusted = -1202,
   NSURLErrorServerCertificateHasUnknownRoot = -1203.
   NSURLErrorServerCertificateNotYetValid = -1204.
   NSURLErrorClientCertificateRejected = -1205,
   NSURLErrorCannotLoadFromNetwork = -2000,
   NSURLErrorCannotCreateFile = -3000,
   NSURLErrorCannotOpenFile = -3001,
   NSURLErrorCannotCloseFile = -3002,
   NSURLErrorCannotWriteToFile = -3003.
   NSURLErrorCannotRemoveFile = -3004,
   NSURLErrorCannotMoveFile = -3005,
   NSURLErrorDownloadDecodingFailedMidStream = -3006,
   NSURLErrorDownloadDecodingFailedToComplete = -3007
```

Constants

NSURLErrorUnknown

Returned when the URL Loading system encounters an error that it cannot interpret.

This can occur when an error originates from a lower level framework or library. Whenever this error code is received, it is a bug, and should be reported to Apple.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

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NSURLErrorCancelled

Returned when an asynchronous load is canceled.

A Web Kit framework delegate will receive this error when it performs a cancel operation on a loading resource. Note that an NSURLConnection or NSURLDownload delegate will not receive this error if the download is canceled.

Available in Mac OS X v10.2 and later.

Declared in NSURI Error.h.

NSURLErrorBadURL

Returned when a URL is sufficiently malformed that a URL request cannot be initiated

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorTimedOut

Returned when an asynchronous operation times out.

NSURLConnection will send this error to its delegate when the timeoutInterval in NSURLRequest expires before a load can complete.

Available in Mac OS X v10.2 and later.

Declared in NSURI Error.h.

NSURLErrorUnsupportedURL

Returned when a properly formed URL cannot be handled by the framework.

The most likely cause is that there is no available protocol handler for the URL.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotFindHost

Returned when the host name for a URL cannot be resolved.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotConnectToHost

Returned when an attempt to connect to a host has failed.

This can occur when a host name resolves, but the host is down or may not be accepting connections on a certain port.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorDataLengthExceedsMaximum

Returned when the length of the resource data exceeds the maximum allowed.

Available in Mac OS X v10.5 and later.

Declared in NSURLError.h.

NSURLErrorNetworkConnectionLost

Returned when a client or server connection is severed in the middle of an in-progress load.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

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NSURLErrorDNSLookupFailed

See NSURLErrorCannotFindHost

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorHTTPTooManyRedirects

Returned when a redirect loop is detected or when the threshold for number of allowable redirects has been exceeded (currently 16).

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorResourceUnavailable

Returned when a requested resource cannot be retrieved.

Examples are "file not found", and data decoding problems that prevent data from being processed correctly.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorNotConnectedToInternet

Returned when a network resource was requested, but an internet connection is not established and cannot be established automatically, either through a lack of connectivity, or by the user's choice not to make a network connection automatically.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorRedirectToNonExistentLocation

Returned when a redirect is specified by way of server response code, but the server does not accompany this code with a redirect URL.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

${\tt NSURLErrorBadServerResponse}$

Returned when the URL Loading system receives bad data from the server.

This is equivalent to the "500 Server Error" message sent by HTTP servers.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorUserCancelledAuthentication

Returned when an asynchronous request for authentication is cancelled by the user.

This is typically incurred by clicking a "Cancel" button in a username/password dialog, rather than the user making an attempt to authenticate.

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Available in Mac OS X v10.2 and later.

Declared in NSURI Error.h.

NSURLErrorUserAuthenticationRequired

Returned when authentication is required to access a resource.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

Constants

NSURLErrorZeroByteResource

Returned when a server reports that a URL has a non-zero content length, but terminates the network connection "gracefully" without sending any data.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorFileDoesNotExist

Returned when a file does not exist.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorFileIsDirectory

Returned when a request for an FTP file results in the server responding that the file is not a plain file, but a directory.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorNoPermissionsToReadFile

Returned when a resource cannot be read due to insufficient permissions.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorSecureConnectionFailed

Returned when an attempt to establish a secure connection fails for reasons which cannot be expressed more specifically.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorServerCertificateHasBadDate

Returned when a server certificate has a date which indicates it has expired, or is not yet valid.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorServerCertificateUntrusted

Returned when a server certificate is signed by a root server which is not trusted.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorServerCertificateHasUnknownRoot

Returned when a server certificate is not signed by any root server.

Available in Mac OS X v10.2 and later.

Declared in NSURI Error.h.

NSURLErrorServerCertificateNotYetValid

Returned when a server certificate is not yet valid.

Available in Mac OS X v10.4 and later.

Declared in NSURLError.h.

NSURLErrorClientCertificateRejected

Returned when a server certificate is rejected.

Available in Mac OS X v10.4 and later.

Declared in NSURLError.h.

NSURLErrorCannotLoadFromNetwork

Returned when a specific request to load an item only from the cache cannot be satisfied.

This error is sent at the point when the library would go to the network accept for the fact that is has been blocked from doing so by the "load only from cache" directive.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotCreateFile

Returned when NSURLDownload object was unable to create the downloaded file on disk due to a I/O failure.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotOpenFile

Returned when NSURLDownload was unable to open the downloaded file on disk.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotCloseFile

Returned when NSURLDownload was unable to close the downloaded file on disk.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotWriteToFile

Returned when NSURLDownload was unable to write to the downloaded file on disk.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotRemoveFile

Returned when NSURLDownload was unable to remove a downloaded file from disk.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorCannotMoveFile

Returned when NSURLDownload was unable to move a downloaded file on disk.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorDownloadDecodingFailedMidStream

Returned when NSURLDownload failed to decode an encoded file during the download.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

NSURLErrorDownloadDecodingFailedToComplete

Returned when NSURLDownload failed to decode an encoded file after downloading.

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

Availability

Available in Mac OS X v10.2 with Safari 1.0 installed.

Available in Mac OS X v10.2.7 and later.

Declared In

NSURLError.h

Global Variables

Cocoa Error Domain

This constant defines the Cocoa error domain.

```
NSString *const NSCocoaErrorDomain;
```

Constants

NSCocoaErrorDomain

Application Kit and Foundation Kit errors.

Available in Mac OS X v10.4 and later.

Declared in NSError.h.

Declared In

FoundationErrors.h

NSJavaSetup Information

Keys into a dictionary providing information about the way to set up the Java virtual machine.

```
extern NSString *NSJavaClasses;
extern NSString *NSJavaRoot;
extern NSString *NSJavaPath;
extern NSString *NSJavaUserPath;
extern NSString *NSJavaLibraryPath;
extern NSString *NSJavaOwnVirtualMachine;
extern NSString *NSJavaPathSeparator;
```

Constants

NSJavaClasses

The classes that the virtual machine should load so that their associated frameworks will be loaded.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaRoot

The root of the location where the application's classes are.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaPath

A class path whose components will be prepended by NSJavaRoot if they are not absolute locations. This entry is an array.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaUserPath

Another segment of the class path so that the application developer can customize where classes will be looked for.

This path goes after the application path so that one cannot replace the classes used by the application.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaLibraryPath

The path where the runtime should look for dynamic libraries needed by Java wrappers.

This path is an NSArray object.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaOwnVirtualMachine

An NSString object. If this string exists in the dictionary, NSJavaSetup attempts to create a new Java virtual machine rather than reusing the existing one. Set the value of this string to "YES".

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaPathSeparator

This path is not a dictionary key—it is a value indicating the separator placed between components of a pathname passed to NSJavaSetup.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

Declared In

NSJavaSetup.h

NSHashTable Callbacks

Predefined sets of callbacks for NSHashTable.

Constants 17

```
extern const NSHashTableCallBacks NSIntegerHashCallBacks; extern const NSHashTableCallBacks NSIntHashCallBacks; extern const NSHashTableCallBacks NSNonOwnedPointerHashCallBacks; extern const NSHashTableCallBacks NSNonRetainedObjectHashCallBacks; extern const NSHashTableCallBacks NSObjectHashCallBacks; extern const NSHashTableCallBacks NSOwnedObjectIdentityHashCallBacks; extern const NSHashTableCallBacks NSOwnedPointerHashCallBacks; extern const NSHashTableCallBacks NSPointerToStructHashCallBacks;
```

Constants

NSIntegerHashCallBacks

For sets of NSInteger-sized quantities or smaller (for example, int, long, or unichar).

Available in Mac OS X v10.5 and later.

Declared in NSHashTable.h.

NSIntHashCallBacks

For sets of pointer-sized quantities or smaller (for example, int, long, or unichar). (Deprecated. Use NSIntegerHashCallBacks instead.)

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSHashTable.h.

NSNonOwnedPointerHashCallBacks

For sets of pointers, hashed by address.

Available in Mac OS X v10.0 and later.

Declared in NSHashTable.h.

NSNonRetainedObjectHashCallBacks

For sets of objects, but without retaining/releasing.

Available in Mac OS X v10.0 and later.

Declared in NSHashTable.h.

NSObjectHashCallBacks

For sets of objects (similar to NSSet).

Available in Mac OS X v10.0 and later.

Declared in NSHashTable.h.

NSOwnedObjectIdentityHashCallBacks

For sets of objects, with transfer of ownership upon insertion, using pointer equality.

Available in Mac OS X v10.0 and later.

Declared in NSHashTable.h.

NSOwnedPointerHashCallBacks

For sets of pointers, with transfer of ownership upon insertion.

Available in Mac OS X v10.0 and later.

Declared in NSHashTable.h.

NSPointerToStructHashCallBacks

For sets of pointers to structs, when the first field of the struct is int-sized.

Available in Mac OS X v10.0 and later.

Declared in NSHashTable.h.

Discussion

On Mac OS X v10.5 and later, see also the NSHashTable class.

Note that you can make your own callback by picking fields among the above callbacks.

Declared In

NSHashTable.h

NSMapTable Key Call Backs

Predefined sets of callbacks for NSMapTable keys.

```
extern const NSMapTableKeyCallBacks NSIntegerMapKeyCallBacks;
extern const NSMapTableKeyCallBacks NSIntMapKeyCallBacks;
extern const NSMapTableKeyCallBacks NSNonOwnedPointerMapKeyCallBacks;
extern const NSMapTableKeyCallBacks NSNonOwnedPointerOrNullMapKeyCallBacks;
extern const NSMapTableKeyCallBacks NSNonRetainedObjectMapKeyCallBacks:
extern const NSMapTableKeyCallBacks NSObjectMapKeyCallBacks;
extern const NSMapTableKeyCallBacks NSOwnedPointerMapKeyCallBacks;
```

Constants

NSIntegerMapKeyCallBacks

For keys that are pointer-sized quantities or smaller (for example, int, long, or unichar).

Available in Mac OS X v10.5 and later.

Declared in NSMapTable.h.

NSIntMapKeyCallBacks

For keys that are pointer-sized quantities or smaller (for example, int, long, or unichar). (Deprecated. Use NSIntegerMapKeyCallBacks instead.)

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSMapTable.h.

NSNonOwnedPointerMapKeyCallBacks

For keys that are pointers not freed.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

NSNonOwnedPointerOrNullMapKeyCallBacks

For keys that are pointers not freed, or NULL.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

NSNonRetainedObjectMapKeyCallBacks

For sets of objects, but without retaining/releasing.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

NSObjectMapKeyCallBacks

For keys that are objects.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

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NSOwnedPointerMapKeyCallBacks

For keys that are pointers, with transfer of ownership upon insertion.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

Discussion

On Mac OS X v10.5 and later, see also the NSMapTable class.

Note that you can make your own callback by picking fields among the above callbacks.

Declared In

NSMapTable.h

NSMapTable Value Callbacks

These are predefined sets of callbacks for NSMapTable values.

```
extern const NSMapTableValueCallBacks NSIntegerMapValueCallBacks; extern const NSMapTableValueCallBacks NSIntMapValueCallBacks; extern const NSMapTableValueCallBacks NSNonOwnedPointerMapValueCallBacks; extern const NSMapTableValueCallBacks NSObjectMapValueCallBacks; extern const NSMapTableValueCallBacks NSNonRetainedObjectMapValueCallBacks; extern const NSMapTableValueCallBacks NSOwnedPointerMapValueCallBacks;
```

Constants

NSIntegerMapValueCallBacks

For values that are pointer-sized quantities, (for example, int, long, or unichar).

Available in Mac OS X v10.5 and later.

Declared in NSMapTable.h.

NSIntMapValueCallBacks

For values that are pointer-sized quantities, (for example, int, long, or unichar). (Deprecated. Use NSIntegerMapValueCallBacks instead.)

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSMapTable.h.

NSNonOwnedPointerMapValueCallBacks

For values that are not owned pointers.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

NSOwnedPointerMapValueCallBacks

For values that are owned pointers.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

NSNonRetainedObjectMapValueCallBacks

For sets of objects, but without retaining/releasing.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

```
NSObjectMapValueCallBacks
```

For values that are objects.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

Discussion

On Mac OS X v10.5 and later, see also the NSMapTable class.

Note that you can make your own callback by picking fields among the above callbacks.

Declared In

NSMapTable.h

NSURL Domain

This error domain is defined for NSURL.

```
extern NSString * const NSURLErrorDomain;
```

Constants

NSURLErrorDomain

URL loading system errors

Available in Mac OS X v10.2 and later.

Declared in NSURLError.h.

Declared In

NSURLError.h

Zero Constants

These constants are defined as conveniences and can be used to compare with return values from functions.

```
extern const NSPoint NSZeroPoint;
extern const NSSize NSZeroSize;
extern const NSRect NSZeroRect;
```

Constants

NSZeroPoint

An NSPoint structure with both x and y coordinates set to 0.

Available in Mac OS X v10.0 and later.

Declared in NSGeometry.h.

NSZeroSize

An NSSize structure set to 0 in both dimensions.

Available in Mac OS X v10.0 and later.

Declared in NSGeometry.h.

NSZeroRect

An NSRect structure set to 0 in width and height.

Available in Mac OS X v10.0 and later.

Declared in NSGeometry.h.

Constants 2009-05-06 | © 2009 Apple Inc. All Rights Reserved.

Declared In

NSGeometry.h

Numeric Constants

NSDecimal Constants

Constants used by NSDecimal.

```
#define NSDecimalMaxSize (8)
#define NSDecimalNoScale SHRT_MAX
```

Constants

NSDecimalMaxSize

The maximum size of NSDecimal.

Gives a precision of at least 38 decimal digits, 128 binary positions.

Available in Mac OS X v10.0 and later.

Declared in NSDecimal.h.

NSDecimalNoScale

Specifies that the number of digits allowed after the decimal separator in a decimal number should not be limited.

Available in Mac OS X v10.0 and later.

Declared in NSDecimal.h.

Declared In

NSDecimal.h

NSMapTable Constants

Constants used by NSMapTable.

```
#define NSNotAnIntMapKey ((const void *)0x80000000)
#define NSNotAnIntegerMapKey ((const void *)NSIntegerMin)
#define NSNotAPointerMapKey ((const void *)0xffffffff)
```

Constants

NSNotAnIntMapKey

Predefined notAKeyMarker for use with NSMapTableKeyCallBacks. (Deprecated. Use NSNotAnIntegerMapKey instead.)

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

NSNotAnIntegerMapKey

Predefined notAKeyMarker for use with NSMapTableKeyCallBacks.

Available in Mac OS X v10.5 and later.

Declared in NSMapTable.h.

NSNotAPointerMapKey

Predefined notAKeyMarker for use with NSMapTableKeyCallBacks.

Available in Mac OS X v10.0 and later.

Declared in NSMapTable.h.

Discussion

On Mac OS X v10.5 and later, see also the NSMapTable class.

Declared In

NSMapTable.h

NSInteger and NSUInteger Maximum and Minimum Values

Constants representing the maximum and minimum values of NSInteger and NSUInteger.

```
#define NSIntegerMax LONG_MAX
#define NSIntegerMin LONG_MIN
#define NSUIntegerMax ULONG_MAX
```

Constants

NSIntegerMax

The maximum value for an NSInteger.

Available in Mac OS X v10.5 and later.

Declared in QTKitDefines.h.

NSIntegerMin

The minimum value for an NSInteger.

Available in Mac OS X v10.5 and later.

Declared in QTKitDefines.h.

NSUIntegerMax

The maximum value for an NSUInteger.

Available in Mac OS X v10.5 and later.

Declared in QTKitDefines.h.

Declared In

NSObjCRuntime.h

Notifications

Java Setup Notification Names

Notifications sent by the Java bridge to registered observers when a virtual machine is created and initialized.

Constants 23

```
extern NSString *NSJavaWillSetupVirtualMachineNotification;
extern NSString *NSJavaDidSetupVirtualMachineNotification;
extern NSString *NSJavaWillCreateVirtualMachineNotification;
extern NSString *NSJavaDidCreateVirtualMachineNotification;
```

Constants

NSJavaWillSetupVirtualMachineNotification

Notification sent before the Java virtual machine is set up.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaDidSetupVirtualMachineNotification

Notification sent after the Java virtual machine is set up.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaWillCreateVirtualMachineNotification

Notification sent before the Java virtual machine is created.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

NSJavaDidCreateVirtualMachineNotification

Notification sent after the Java virtual machine is created.

Available in Mac OS X v10.0 and later.

Deprecated in Mac OS X v10.5.

Declared in NSJavaSetup.h.

Declared In

NSJavaSetup.h

Exceptions

General Exception Names

Exceptions defined by NSException.

```
extern NSString *NSGenericException;
extern NSString *NSRangeException;
extern NSString *NSInvalidArgumentException;
extern NSString *NSInternalInconsistencyException;
extern NSString *NSMallocException;
extern NSString *NSObjectInaccessibleException;
extern NSString *NSObjectNotAvailableException;
extern NSString *NSDestinationInvalidException;
extern NSString *NSPortTimeoutException;
extern NSString *NSInvalidSendPortException;
extern NSString *NSInvalidReceivePortException;
extern NSString *NSPortSendException;
extern NSString *NSPortReceiveException;
extern NSString *NSPortReceiveException;
extern NSString *NSOldStyleException;
```

Constants

NSGenericException

A generic name for an exception.

You should typically use a more specific exception name.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSRangeException

Name of an exception that occurs when attempting to access outside the bounds of some data, such as beyond the end of a string.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSInvalidArgumentException

Name of an exception that occurs when you pass an invalid argument to a method, such as a nil pointer where a non-nil object is required.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSInternalInconsistencyException

Name of an exception that occurs when an internal assertion fails and implies an unexpected condition within the called code.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSMallocException

Obsolete; not currently used.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSObjectInaccessibleException

Name of an exception that occurs when a remote object is accessed from a thread that should not access it.

See NSConnection's enableMultipleThreads.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

Constants 25

NSObjectNotAvailableException

Name of an exception that occurs when the remote side of the NSConnection refused to send the message to the object because the object has never been vended.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSDestinationInvalidException

Name of an exception that occurs when an internal assertion fails and implies an unexpected condition within the distributed objects.

This is a distributed objects–specific exception.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSPortTimeoutException

Name of an exception that occurs when a timeout set on a port expires during a send or receive operation.

This is a distributed objects-specific exception.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSInvalidSendPortException

Name of an exception that occurs when the send port of an NSConnection has become invalid.

This is a distributed objects-specific exception.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSInvalidReceivePortException

Name of an exception that occurs when the receive port of an NSConnection has become invalid.

This is a distributed objects-specific exception.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSPortSendException

Generic error occurred on send.

This is an NSPort-specific exception.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NSPortReceiveException

Generic error occurred on receive.

This is an NSPort-specific exception.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

NS01dStyleException

No longer used.

Available in Mac OS X v10.0 and later.

Declared in NSException.h.

Declared In

NSException.h

Version Numbers

Foundation Version Number

Version of the Foundation framework in the current environment.

double NSFoundationVersionNumber;

Constants

NSFoundationVersionNumber

The version of the Foundation framework in the current environment.

Available in Mac OS X v10.1 and later.

Declared in NSObjCRuntime.h.

Declared In

NSObjCRuntime.h

Foundation Framework Version Numbers

Constants to define Foundation Framework version numbers.

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```
397.40
#define NSFoundationVersionNumber10_0
#define NSFoundationVersionNumber10_1
                                          425.00
#define NSFoundationVersionNumber10_1_1
                                            425.00
#define NSFoundationVersionNumber10_1_2
                                            425.00
#define NSFoundationVersionNumber10_1_3
                                            425.00
#define NSFoundationVersionNumber10 1 4
                                            425.00
#define NSFoundationVersionNumber10_2
                                          462.00
#define NSFoundationVersionNumber10_2_1
                                            462.00
#define NSFoundationVersionNumber10_2_2
                                            462.00
#define NSFoundationVersionNumber10_2_3
                                            462.00
#define NSFoundationVersionNumber10_2_4
                                            462.00
#define NSFoundationVersionNumber10 2 5
                                            462.00
#define NSFoundationVersionNumber10_2_6
                                            462.00
#define NSFoundationVersionNumber10_2_7
                                            462.70
#define NSFoundationVersionNumber10_2_8
                                            462.70
#define NSFoundationVersionNumber10_3
                                          500.00
#define NSFoundationVersionNumber10_3_1
                                            500.00
#define NSFoundationVersionNumber10 3 2
                                            500.30
#define NSFoundationVersionNumber10_3_3
                                            500.54
#define NSFoundationVersionNumber10_3_4
                                            500.56
#define NSFoundationVersionNumber10_3_5
                                            500.56
#define NSFoundationVersionNumber10_3_6
                                            500.56
#define NSFoundationVersionNumber10_3_7
                                            500.56
#define NSFoundationVersionNumber10 3 8
                                            500.56
#define NSFoundationVersionNumber10_3_9
                                            500.58
                                          567.00
#define NSFoundationVersionNumber10_4
#define NSFoundationVersionNumber10_4_1
                                            567.00
                                            567.12
#define NSFoundationVersionNumber10_4_2
#define NSFoundationVersionNumber10_4_3
                                            567.21
#define NSFoundationVersionNumber10 4 4 Intel
                                                  567.23
                                                    567.21
#define NSFoundationVersionNumber10_4_4_PowerPC
#define NSFoundationVersionNumber10_4_5
                                            567.25
#define NSFoundationVersionNumber10_4_6
                                            567.26
#define NSFoundationVersionNumber10_4_7
                                            567.27
#define NSFoundationVersionNumber10_4_8
                                            567.28
#define NSFoundationVersionNumber10 4 9
                                            567.29
#define NSFoundationVersionNumber10_4_10
                                             567.29
#define NSFoundationVersionNumber10_4_11
                                             567.36
```

Constants

 ${\tt NSFoundationVersionNumber 10_0}$

Foundation version released in Mac OS X version 10.0.

Available in Mac OS X v10.1 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_1

Foundation version released in Mac OS X version 10.1.

Available in Mac OS X v10.2 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_1_1

Foundation version released in Mac OS X version 10.1.1.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_1_2$

Foundation version released in Mac OS X version 10.1.2.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_1_3

Foundation version released in Mac OS X version 10.1.3.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_1_4

Foundation version released in Mac OS X version 10.1.4.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2

Foundation version released in Mac OS X version 10.2.

Available in Mac OS X v10.3 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2_1

Foundation version released in Mac OS X version 10.2.1.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_2_2$

Foundation version released in Mac OS X version 10.2.2.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2_3

Foundation version released in Mac OS X version 10.2.3.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2_4

Foundation version released in Mac OS X version 10.2.4.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2_5

Foundation version released in Mac OS X version 10.2.5.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2_6

Foundation version released in Mac OS X version 10.2.6.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

Constants

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 $NSFoundationVersionNumber10_2_7$

Foundation version released in Mac OS X version 10.2.7.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_2_8

Foundation version released in Mac OS X version 10.2.8.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3

Foundation version released in Mac OS X version 10.3.

Available in Mac OS X v10.4 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_1

Foundation version released in Mac OS X version 10.3.1.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_2

Foundation version released in Mac OS X version 10.3.2.

Available in Mac OS X v10.4 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_3_3$

Foundation version released in Mac OS X version 10.3.3.

Available in Mac OS X v10.4 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_4

Foundation version released in Mac OS X version 10.3.4.

Available in Mac OS X v10.4 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_3_5$

Foundation version released in Mac OS X version 10.3.5.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_6

Foundation version released in Mac OS X version 10.3.6.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_7

Foundation version released in Mac OS X version 10.3.7.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_8

Foundation version released in Mac OS X version 10.3.8.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_3_9

Foundation version released in Mac OS X version 10.3.9.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4

Foundation version released in Mac OS X version 10.4.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_1

Foundation version released in Mac OS X version 10.4.1.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_2

Foundation version released in Mac OS X version 10.4.2.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_4_3$

Foundation version released in Mac OS X version 10.4.3.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_4_Intel

Foundation version released in Mac OS X version 10.4.4 for Intel.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_4_PowerPC

Foundation version released in Mac OS X version 10.4.4 for PowerPC.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_5

Foundation version released in Mac OS X version 10.4.5.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_4_6$

Foundation version released in Mac OS X version 10.4.6.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

Constants 2009-05-06 | © 2009 Apple Inc. All Rights Reserved. $NSFoundationVersionNumber10_4_7$

Foundation version released in Mac OS X version 10.4.7.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

 ${\tt NSFoundationVersionNumber10_4_8}$

Foundation version released in Mac OS X version 10.4.8.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_9

Foundation version released in Mac OS X version 10.4.9.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

NSFoundationVersionNumber10_4_10

Foundation version released in Mac OS X version 10.4.10.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

 $NSFoundationVersionNumber10_4_11$

Foundation version released in Mac OS X version 10.4.11.

Available in Mac OS X v10.5 and later.

Declared in NSObjCRuntime.h.

Declared In

NSObjCRuntime.h

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Document Revision History

This table describes the changes to Foundation Constants Reference.

Date	Notes
2009-05-06	Corrected the definition of NSDecimalNoScale.
2008-11-21	Added definitions of Foundation version numbers for iPhone OS.
2008-10-15	Added definitions of NSScannedOption and NSCollectorDisabledOption.
2007-04-03	Included new constants introduced in Mac OS X v10.5.
2006-06-28	Removed duplicate constant definitions.
2006-05-23	First publication of this content as a separate document.

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