

NSAssertionHandler

Inherits From: NSObject

Declared In: foundation/NSException.h

Class Description

Assertion failures offer a convenient way to check for assertions. The NSAssertionHandler class manages assertion failures. Each thread has its own assertion-handler object, which usually work in coordination with a group of assertion macros. These macros evaluate a condition and, if the condition evaluates to false, call the assertion handler for the current thread, passing it a format string and a variable number of arguments.

The assertion macros come in two sorts, some for Objective-C methods and others for C functions. Two methods of NSAssertionHandler mirror this division; **handleFailureInMethod:object:file:lineNumber:description:** is used for assertion failures occurring within methods, while **handleFailureInFunction:file:lineNumber:description** handles assertion failures occurring in C functions. Both methods begin by logging an error message with **NSLog()**; the only difference in the message is method selector and object (**handleFailureInMethod:...**), and function name (**handleFailureInFunction:...**). Then both methods raise an exception of **NSInternalInconsistencyException**.

Usually for assertions, you need only use the assertion macros **NSAssert()**, **NSCAssert()**, and other related macros, which incorporate the appropriate NSAssertionHandler methods.

Instance Variables

None declared in this class.

Method Types

Getting the thread's handler	+ <code>currentHandler</code>
Handling assertion failures	- <code>handleFailureInFunction:file:lineNumber:description:</code> - <code>handleFailureInMethod:object:file:lineNumber:description:</code>

Class Methods

`currentHandler`

+ (NSAssertionHandler *)`currentHandler`

Returns the assertion handler for the current thread.

Instance Methods

`handleFailureInFunction:file:lineNumber:description`

- (void)`handleFailureInFunction:(NSString *)functionName`
`file:(NSString *)fileName`
`lineNumber:(int)line`
`description:(NSString *)formattedString,`
...

This method logs an error message that includes the function, file, and line number and then raises an exception.

handleFailureInMethod:object:file:lineNumber:description

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- (void)handleFailureInMethod:(SEL)methodSelector  
    object:anObject  
    file:(NSString *)fileName  
    lineNumber:(int)line  
    description:(NSString *)formattedString,  
    ...
```

This method logs an error message that includes the class, method, file, and line number and then raises an exception.