

# libdbg Reference

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# Data Types

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## SceDbgBreakOnErrorState

---

An enumeration to represent the various states for “break on error” functionality.

### Definition

---

```
#include <libdbg.h>
typedef enum SceDbgBreakOnErrorState {
    SCE_DBG_DISABLE_BREAK_ON_ERROR = 0,
    SCE_DBG_ENABLE_BREAK_ON_ERROR
} SceDbgBreakOnErrorState;
```

### Enumeration Values

---

Macro	Description
SCE_DBG_DISABLE_BREAK_ON_ERROR	The library will not break execution after outputting an error.
SCE_DBG_ENABLE_BREAK_ON_ERROR	The library will break execution after outputting an error.

### Description

---

An enumeration to represent the various states for “break on error” functionality.

### See Also

---

[sceDbgSetBreakOnErrorState](#)

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# SceDbgLogLevel

An enumeration to represent the various logging levels which can be output by [sceDbgLoggingHandler](#).

## Definition

```
#include <libdbg.h>
typedef enum SceDbgLogLevel {
    SCE_DBG_LOG_LEVEL_TRACE = 0,
    SCE_DBG_LOG_LEVEL_DEBUG,
    SCE_DBG_LOG_LEVEL_INFO,
    SCE_DBG_LOG_LEVEL_WARNING,
    SCE_DBG_LOG_LEVEL_ERROR,
    SCE_DBG_NUM_LOG_LEVELS
} SceDbgLogLevel;
```

## Enumeration Values

Macro	Description
SCE_DBG_LOG_LEVEL_TRACE	An extremely verbose logging level, mostly useful for internal developers.
SCE_DBG_LOG_LEVEL_DEBUG	A diagnostic logging level.
SCE_DBG_LOG_LEVEL_INFO	An informational logging level.
SCE_DBG_LOG_LEVEL_WARNING	A logging level that gives warnings of situations detrimental to proper execution.
SCE_DBG_LOG_LEVEL_ERROR	A logging level that will report erroneous conditions in execution.
SCE_DBG_NUM_LOG_LEVELS	The number of logging levels available.

## Description

An enumeration to represent the various logging levels which can be output by [sceDbgLoggingHandler](#).

## See Also

[sceDbgSetMinimumLogLevel](#), [sceDbgLoggingHandler](#)

# Functions

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# sceDbgAssertionHandler

Outputs a message via the assertion handler.

## Definition

```
#include <libdbg.h>
SceInt32 sceDbgAssertionHandler(
    const char *pFile,
    int line,
    bool stop,
    const char *pComponent,
    const char *pMessage,
    ...
);
```

## Arguments

[in] <i>pFile</i>	The file name at which the assert originated.
[in] <i>line</i>	The line number within the file at which the assert originated.
[in] <i>stop</i>	A flag that indicates to the caller whether the program should stop execution in the event of an assertion. The caller receives this flag as a return value and must interpret it as appropriate.
[in] <i>pComponent</i>	An identifier for the component from which the assert originated (e.g. "libGxm" or "Physics").
[in] <i>pMessage</i>	A format string in the "printf-style" for the output message (e.g. "The binding named: %s has an invalid value: %d").
[in] ...	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

## Return Values

Value	Description
<code>SCE_OK</code>	The assert did not fire and the operation completed successfully.
<i>stop</i>	In the event that the assert fired the caller-specified value <i>stop</i> is returned.

## Description

Outputs a message via the assertion handler. Messages are limited to a total length of 512 characters. Messages greater than this length will be truncated.

# sceDbgLoggingHandler

Outputs a message via the logging handler.

## Definition

```
#include <libdbg.h>
SceInt32 sceDbgLoggingHandler(
    const char *pFile,
    int line,
    int severity,
    const char *pComponent,
    const char *pMessage,
    ...
);
```

## Arguments

[in] <i>pFile</i>	The file name at which the assert originated.
[in] <i>line</i>	The line number within the file at which the assert originated.
[in] <i>severity</i>	The severity of the message. Only messages with a severity greater than or equal to that set using <a href="#">sceDbgSetMinimumLogLevel()</a> will be output to TTY.
[in] <i>pComponent</i>	An identifier for the component from which the assert originated (e.g. "libGxm" or "Physics").
[in] <i>pMessage</i>	A format string in the "printf-style" for the output message (e.g. "The binding named: %s has an invalid value: %d").
[in] ...	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

## Return Values

Value	Description
SCE_OK	The operation was completed successfully.

## Description

Outputs a message via the logging handler. Messages are limited to a total length of 512 characters. Messages greater than this length will be truncated and an error returned.



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## sceDbgSetBreakOnErrorState

---

Specifies whether the library should break execution when a client library outputs an error.

### Definition

```
#include <libdbg.h>
SceInt32 sceDbgSetBreakOnErrorState (
    SceDbgBreakOnErrorState state
);
```

### Arguments

[in] *state*      An enum value specifying whether or not the library should break after outputting an error.

### Return Values

Value	Description
SCE_OK	The operation completed successfully.

### Description

Specifies whether the library should break execution when a client library outputs an error. The default setting is [SCE\\_DBG\\_DISABLE\\_BREAK\\_ON\\_ERROR](#) (i.e. execution will not break on error).

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## sceDbgSetMinimumLogLevel

---

Specifies the minimum severity level for the output of logging information.

### Definition

```
#include <libdbg.h>
SceInt32 sceDbgSetMinimumLogLevel (
    SceInt32 minimumLogLevel
);
```

### Arguments

[in] *minimumLogLevel*     The minimum severity at which debugging messages should be output.

### Return Values

Value	Description
SCE_OK	The operation was completed successfully.

### Description

Specifies the minimum severity level for the output of logging information. The default level is [SCE\\_DBG\\_LOG\\_LEVEL\\_TRACE](#).

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**Macros**

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# SCE\_BREAK

---

Breaks program execution.

## Definition

---

```
#include <libdbg.h>
#define SCE_BREAK() _SCE_BREAK()
```

## Arguments

---

None

## Description

---

Breaks program execution. If a debugger is attached, the user can resume execution immediately.

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---

## SCE\_DBG\_ALWAYS\_ASSERT

---

An always assert macro.

### Definition

---

```
#include <libdbg.h>
#define SCE_DBG_ALWAYS_ASSERT(
    test
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_BREAK(), "Assertion
failed: %s\n", #test)
```

### Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
-------------	--

### Description

---

An always assert macro. This will always output a simple message and halt execution if the condition specified by *test* evaluates to false.

### Notes

---

If the condition evaluates to false, this assert will always fire regardless of the value of `SCE_DBG_ASSERTS_ENABLED`.

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---

# SCE\_DBG\_ALWAYS\_ASSERT\_EQUAL

---

An always assert equal macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_ALWAYS_ASSERT_EQUAL(
    value,
    expected
) SCE_DBG_ASSERT_PRIVATE((value == expected), true, SCE_BREAK(), "Assertion
failed, values not equal\n")
```

## Arguments

---

<i>value</i>	An identifier to evaluate for equality. This is assumed to be equal to the <i>expected</i> parameter under normal circumstances.
<i>expected</i>	An identifier to evaluate for equality. This denotes the expected value and is assumed to be equal to the <i>value</i> parameter under normal circumstances.

## Description

---

An always assert equal macro. This will always output a simple message and halt execution if the *value* and *expected* parameters are not equal.

## Notes

---

If the condition evaluates to false, this assert will always fire regardless of the value of `SCE_DBG_ASSERTS_ENABLED`. The *value* and *expected* parameters must be valid operands to the binary `==` operator.

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---

# SCE\_DBG\_ALWAYS\_ASSERT\_MSG

---

An always assert message macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_ALWAYS_ASSERT_MSG(
    test,
    msg,
    ...
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_BREAK(), msg, ##__VA_ARGS__)
```

## Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
<i>msg</i>	A message string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

## Description

---

An always assert message macro. A user-supplied message will be output and execution will always be halted if the condition specified by *test* evaluates to false.

## Notes

---

If the condition evaluates to false, this assert will always fire regardless of the value of `SCE_DBG_ASSERTS_ENABLED`.

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---

# SCE\_DBG\_ASSERT

---

An assert macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_ASSERT(
    test
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_BREAK(), "Assertion failed: %s\n",
    #test)
```

## Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
-------------	--

## Description

---

An assert macro. A simple message will be output and execution halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

## Notes

---

This assert will be removed at compile-time if the value of `SCE_DBG_ASSERTS_ENABLED` is zero. The eventual intention is for the user to be able to resume immediately in the event of this assert firing.



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---

# SCE\_DBG\_ASSERT\_EQUAL

---

An assert equal macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_ASSERT_EQUAL(
    value,
    expected
) SCE_DBG_ASSERT_PRIVATE(((value) == (expected)), true, SCE_BREAK(), "Assertion
failed, values not equal\n")
```

## Arguments

---

<i>value</i>	An identifier to evaluate for equality. This is assumed to be equal to the <i>expected</i> parameter under normal circumstances.
<i>expected</i>	An identifier to evaluate for equality. This denotes the expected value and is assumed to be equal to the <i>value</i> parameter under normal circumstances.

## Description

---

An assert equal macro. A simple message will be output and execution halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the *value* and *expected* parameters are not equal.

## Notes

---

This assert will be removed at compile-time if the value of `SCE_DBG_ASSERTS_ENABLED` is zero. The eventual intention is for the user to be able to resume immediately in the event of this assert firing. The *value* and *expected* parameters must be valid operands to the binary `==` operator.

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---

## SCE\_DBG\_ASSERT\_MSG

---

An assert message macro.

### Definition

---

```
#include <libdbg.h>
#define SCE_DBG_ASSERT_MSG(
    test,
    msg,
    ...
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_BREAK(), msg, ##__VA_ARGS__)
```

### Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
<i>msg</i>	A message string in the “printf-style” for the output message. (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

### Description

---

An assert message macro. A user-supplied message will be output and execution halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

### Notes

---

This assert will be removed at compile-time if the value of `SCE_DBG_ASSERTS_ENABLED` is zero.

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## SCE\_DBG\_LOG\_DEBUG

---

Outputs a debug message via the logging handler.

### Definition

```
#include <libdbg.h>
#define SCE_DBG_LOG_DEBUG(
    format,
    ...
) SCE_DBG_LOG_BASE(SCE_DBG_LOG_LEVEL_DEBUG, SCE_DBG_LOG_COMPONENT, format,
    ##__VA_ARGS__)
```

### Arguments

<i>format</i>	A format string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

### Description

Outputs a debug message via the logging handler.

### Notes

The message is only output to TTY if both the compile time minimum log-level [SCE\\_DBG\\_MINIMUM\\_LOG\\_LEVEL](#) and the runtime minimum log-level (set using [sceDbgSetMinimumLogLevel\(\)](#)) are less than or equal to [SCE\\_DBG\\_LOG\\_LEVEL\\_DEBUG](#).

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# SCE\_DBG\_LOG\_ERROR

Outputs an error message via the logging handler.

## Definition

```
#include <libdbg.h>
#define SCE_DBG_LOG_ERROR(
    format,
    ...
) SCE_DBG_LOG_BASE(SCE_DBG_LOG_LEVEL_ERROR, SCE_DBG_LOG_COMPONENT, format,
    ##__VA_ARGS__)
```

## Arguments

<i>format</i>	A format string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

## Description

Outputs an error message via the logging handler.

## Notes

The message is only output to TTY if both the compile time minimum log-level [SCE\\_DBG\\_MINIMUM\\_LOG\\_LEVEL](#) and the runtime minimum log-level (set using [sceDbgSetMinimumLogLevel\(\)](#)) are less than or equal to [SCE\\_DBG\\_LOG\\_LEVEL\\_ERROR](#). An optional component identifier can be specified prior to usage with: [SCE\\_DBG\\_LOG\\_COMPONENT](#).

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## SCE\_DBG\_LOG\_INFO

---

Outputs an info message via the logging handler.

### Definition

```
#include <libdbg.h>
#define SCE_DBG_LOG_INFO(
    format,
    ...
) SCE_DBG_LOG_BASE(SCE_DBG_LOG_LEVEL_INFO, SCE_DBG_LOG_COMPONENT, format,
    ##__VA_ARGS__)
```

### Arguments

<i>format</i>	A format string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

### Description

Outputs an info message via the logging handler.

### Notes

The message is only output to TTY if both the compile time minimum log-level [SCE\\_DBG\\_MINIMUM\\_LOG\\_LEVEL](#) and the runtime minimum log-level (set using [sceDbgSetMinimumLogLevel\(\)](#)) are less than or equal to [SCE\\_DBG\\_LOG\\_LEVEL\\_INFO](#).

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# SCE\_DBG\_LOG\_TRACE

---

Outputs a trace message via the logging handler.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_LOG_TRACE (
    format,
    ...
) SCE_DBG_LOG_BASE(SCE_DBG_LOG_LEVEL_TRACE, SCE_DBG_LOG_COMPONENT, format,
    ##__VA_ARGS__)
```

## Arguments

---

<i>format</i>	A format string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

## Description

---

Outputs a trace message via the logging handler.

## Notes

---

The message is only output to TTY if both the compile time minimum log-level [SCE\\_DBG\\_MINIMUM\\_LOG\\_LEVEL](#) and the runtime minimum log-level (set using [sceDbgSetMinimumLogLevel\(\)](#)) are less than or equal to [SCE\\_DBG\\_LOG\\_LEVEL\\_TRACE](#).

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# SCE\_DBG\_LOG\_WARNING

---

Outputs a warning message via the logging handler.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_LOG_WARNING(
    format,
    ...
) SCE_DBG_LOG_BASE(SCE_DBG_LOG_LEVEL_WARNING, SCE_DBG_LOG_COMPONENT, format,
    ##__VA_ARGS__)
```

## Arguments

---

<i>format</i>	A format string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
<i>...</i>	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

## Description

---

Outputs a warning message via the logging handler.

## Notes

---

The message is only output to TTY if both the compile time minimum log-level [SCE\\_DBG\\_MINIMUM\\_LOG\\_LEVEL](#) and the runtime minimum log-level (set using [sceDbgSetMinimumLogLevel\(\)](#)) are less than or equal to [SCE\\_DBG\\_LOG\\_LEVEL\\_WARNING](#).

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# SCE\_DBG\_SIMPLE\_ASSERT

---

An assert macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_SIMPLE_ASSERT(
    test
) _SCE_MACRO_BEGIN \
    if (SCE_UNLIKELY(!(test))) { \
        SCE_BREAK(); \
    } \
    _SCE_MACRO_END
```

## Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
-------------	--

## Description

---

An assert macro. Execution will be halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

## Notes

---

This assert will be removed at compile-time if the value of `SCE_DBG_ASSERTS_ENABLED` is zero. The eventual intention is for the user to be able to resume immediately in the event of this assert firing.



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---

# SCE\_DBG\_STATIC\_ASSERT

---

A static (compile-time) assertion macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_STATIC_ASSERT(
    condition
) enum { \
    SCE_DBG_CONCATENATE(SCE_DBG_STATIC_ASSERT_ENUM_, __LINE_) \
    = sizeof(SCE_DBG_STATIC_ASSERT_FAILED< (bool) (condition) >) \
}
```

## Arguments

---

<i>condition</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
------------------	--

## Description

---

A static (compile-time) assertion macro. This will produce a compile-compilation error if the condition specified by *condition* evaluates to false.

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---

# SCE\_DBG\_STOP\_ASSERT

---

An assert macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_STOP_ASSERT(
    test
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_STOP(), "Assertion failed: %s\n",
    #test)
```

## Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
-------------	--

## Description

---

An assert macro. A simple message will be output and execution halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

## Notes

---

This assert will be removed at compile-time if the value of `SCE_DBG_ASSERTS_ENABLED` is zero. The eventual intention is that the user must manually move the program counter to be able to resume execution in the event of this assert firing.

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---

# SCE\_DBG\_VERIFY

---

A verify macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_VERIFY(
    test
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_BREAK(), "Assertion
failed: %s\n", #test)
```

## Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
-------------	--

## Description

---

A verify macro. A simple message will be output and execution halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

## Notes

---

The test condition will still be evaluated at compile-time even if `SCE_DBG_ASSERTS_ENABLED` is zero. However, in that case the assert will not fire. The eventual intention is for the user to be able to resume immediately in the event of this assert firing.

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---

## SCE\_DBG\_VERIFY\_MSG

---

A verify message macro.

### Definition

---

```
#include <libdbg.h>
#define SCE_DBG_VERIFY_MSG(
    test,
    msg,
    ...
) SCE_DBG_ASSERT_PRIVATE(test, true, SCE_BREAK(), msg, ##__VA_ARGS__)
```

### Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
<i>msg</i>	A message string in the “printf-style” for the output message (e.g. “The binding named: %s has an invalid value: %d”).
...	A variable number of parameters, which will be inserted into the format string. The number and types of these parameters should match those specified in the format string.

### Description

---

A verify message macro. A user-supplied message will be output and execution halted if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

### Notes

---

The test condition will still be evaluated at compile-time even if `SCE_DBG_ASSERTS_ENABLED` is zero. However, in that case the assert will not fire. The eventual intention is for the user to be able to resume immediately in the event of this assert firing.

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# SCE\_DBG\_WARN\_ASSERT

---

An assert macro.

## Definition

---

```
#include <libdbg.h>
#define SCE_DBG_WARN_ASSERT(
    test
) SCE_DBG_ASSERT_PRIVATE(test, false, (void)0, "Warning - Assertion
failed: %s\n", #test)
```

## Arguments

---

<i>test</i>	A test condition to evaluate. This is assumed to be true under normal circumstances.
-------------	--

## Description

---

An assert macro. A warning message will be output if `SCE_DBG_ASSERTS_ENABLED` evaluates to true and the condition specified by *test* evaluates to false.

## Notes

---

This assert will be removed at compile-time if the value of `SCE_DBG_ASSERTS_ENABLED` is zero. This assert will not result in a break in execution.

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---

# **SCE\_NORETURN\_STOP**

---

Stops program execution.

## **Definition**

---

```
#include <libdbg.h>
#define SCE_NORETURN_STOP() _SCE_NORETURN_STOP()
```

## **Arguments**

---

None

## **Description**

---

Stops program execution. If a debugger is attached, the user must move the Program Counter (PC) before resuming execution.

## **Notes**

---

Currently this macro behaves the same as `SCE_STOP` but in a future release the compiler may generate code on the assumption that execution will not resume after reaching the resultant breakpoint.

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---

## SCE\_STOP

---

Stops program execution.

### Definition

---

```
#include <libdbg.h>
#define SCE_STOP() _SCE_STOP()
```

### Arguments

---

None

### Description

---

Stops program execution. If a debugger is attached, the user must move the Program Counter (PC) before resuming execution.

## Defines

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## Define Summary

Define	Value	Description
SCE_DBG_ASSERT_COMPONENT	""	Optional component specifier for the SCE_DBG_XXX assertion macros.
SCE_DBG_ASSERTS_ENABLED	0	Optional compile-time flag to control whether or not the assert functionality provided using the SCE_DBG_ASSERT_XXX macros is enabled.
SCE_DBG_LOG_COMPONENT	""	Optional component specifier for the SCE_DBG_LOG_XXX macros.
SCE_DBG_LOG_PREFIX	""	Optional message prefix for the SCE_DBG_LOG_XXX macros.
SCE_DBG_LOGGING_ENABLED	1	Optional compile-time flag to control whether or not the logging functionality provided using the SCE_DBG_LOG_XXX macros is enabled. This will not affect prebuilt libraries or PRX.
SCE_DBG_MINIMUM_LOG_LEVEL	SCE_DBG_LOG_LEVEL_TRACE	Compile-time switch to control minimum log level output from the SCE_DBG_LOG_XXX macros. This can be used to remove logging entirely.