

Coredump Library Reference

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Datatypes

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SceCoredumpHandler

Core dump handler type

Definition

```
#include <coredump.h>
typedef SceInt32 (*SceCoredumpHandler) (
    void *pCommon
);
```

Arguments

pCommon The *pCommon* specified with `sceCoredumpRegisterCoredumpHandler()` is passed as-is

Return Values

Value	Description
SCE_OK	Success
Negative value	Failure

Description

This is the core handler type.

See Also

`sceCoredumpRegisterCoredumpHandler()`

Core Dump Handler Registration

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sceCoredumpRegisterCoredumpHandler

Register core dump handler

Definition

```
#include <coredump.h>
SceInt32 sceCoredumpRegisterCoredumpHandler (
    SceCoredumpHandler handler,
    SceSize stackSize,
    void *pCommon
)
```

Arguments

handler Entry address of the core dump handler to be registered
stackSize Stack size of the thread that will execute the core dump handler
pCommon Value to be passed to the *pCommon* argument of the core dump handler

Return Values

Returns SCE_OK for normal termination.

Returns one of the following error codes (negative value) for errors.

Value	Description
SCE_OK	Success
SCE_COREDUMP_ERROR_PARAM	Error in the parameters
SCE_COREDUMP_ERROR_ALREADY_REGISTERED	A core dump handler is already registered

Description

This function registers a core dump handler.

When a core dump is output due to an exception in a process, etc., a core dump handler is called in order to output user data. Memory at the size specified for *stackSize* at the time of the core dump handler registration will be reserved from the application's memory budget to the system. If specified *stackSize* is less than 4 KiB, the SCE_COREDUMP_ERROR_PARAM error will return.

Only one core dump handler can be registered per process at the same time. If this function is called for a process with a core dump handler already registered, the SCE_COREDUMP_ERROR_ALREADY_REGISTERED error will return.

See Also

SceCoredumpHandler

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sceCoredumpUnregisterCoredumpHandler

Unregister core dump handler

Definition

```
#include <coredump.h>
SceInt32 sceCoredumpUnregisterCoredumpHandler (
    void
)
```

Arguments

None

Return Values

Returns SCE_OK for normal termination.

Returns one of the following error codes (negative value) for errors.

Value	Description
SCE_OK	Success
SCE_COREDUMP_ERROR_NOT_REGISTERED	A core dump handler is not registered

Description

This function unregisters a core dump handler.

If this function is called for a process that does not have a core dump handler registered, the SCE_COREDUMP_ERROR_NOT_REGISTERED error will return.

User Data Writes

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sceCoredumpWriteUserData

Write user data to the core file

Definition

```
#include <coredump.h>
SceSSize sceCoredumpWriteUserData (
    const void *data,
    SceSize size
)
```

Arguments

data Address of the user data to be written
size Size of the user data

Return Values

Returns the written size for normal termination.

Returns one of the following error codes (negative value) for errors.

Value	Description
bytes(bytes>=0)	Number of bytes actually written
SCE_COREDUMP_ERROR_PARAM	Error in the parameters
SCE_COREDUMP_ERROR_NOT_IN_COREDUMP_HANDLER	Function was not called from a registered core dump handler

Description

This function writes user data to the core file.

This function can only be called in a core dump handler. If it is not called from a registered core dump handler the SCE_COREDUMP_ERROR_NOT_IN_COREDUMP_HANDLER error will return. This function can be called multiple times, with data written to the core file in the order of execution. The maximum total size for user data is 16384 bytes. If data with a size greater than this is attempted to be written, the number of bytes actually written that will be returned by the return value will be smaller than the user data size specified with the argument *size*. If no data whatsoever is written due to size restrictions, 0 will return.

Constants

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Return Codes

List of return codes returned by Coredump library

Definition

Value	(Number)	Description
SCE_COREDUMP_ERROR_PARAM	0x800A0000	Error in the parameters
SCE_COREDUMP_ERROR_NOT_REGISTERED	0x800A0001	A core dump handler is not registered
SCE_COREDUMP_ERROR_ALREADY_REGISTERED	0x800A0002	A core dump handler is already registered
SCE_COREDUMP_ERROR_NOT_IN_COREDUMP_HANDLER	0x800A0003	Function was not called from registered core dump handler