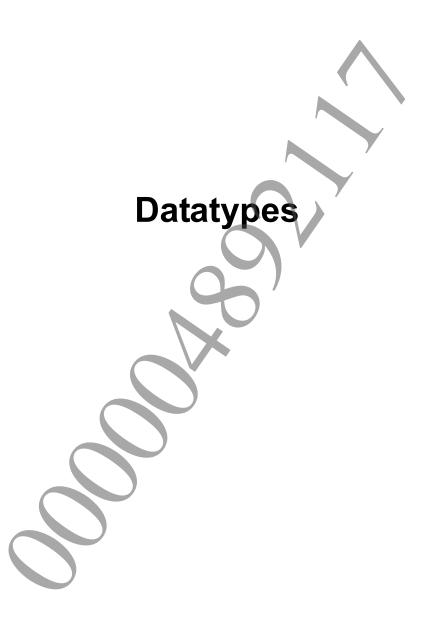


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# SceMp4RecCtrl

## Mp4Rec library control data

#### **Definition**

#### **Members**

size Size of the structure

pHeapBase Pointer allocated with sceKernelGetMemBlockBase()
heapSize Size allocated with sceKernelGetMemBlockBase()

handle Handle of the Mp4Rec library instance

### Description

This structure is for managing the handle and memory of the Mp4Rec library instance.

Specify sizeof (SceMp4RecCtrl) to size.

For pHeapBase and heapSize, set the address and size of the heap memory to use in this API.

For pHeapBase, specify the base address obtained with sceKernelGetMemBlockBase() after allocating memory with sceKernelAllocMemBlock().

A minimum of SCE\_MP4REC\_MIN\_HEAP\_SIZE (4 MiB) is required for heapSize.

The heap memory is used until sceMp4RecDeleteRecorder() is called to delete the Mp4Rec library instance.

For handle, the handle of the Mp4Rec library instance will be stored when sceMp4RecCreateRecorder() is successful.

### See Also

```
sceMp4RecCreateRecorder(), sceMp4RecDeleteRecorder(),
sceMp4RecQueryPhysicalMemSize(), sceMp4RecInit(), sceMp4RecAddVideoSample(),
sceMp4RecAddAudioSample(), sceMp4RecTerm()
```

# SceMp4RecInitParam

#### MP4 recorder feature initialization data

#### Definition

#### **Members**

size Size of the structure recMode MP4 recording mode pEncoderPhyContPtr Pointer allocated with sceKernelGetMemBlockBase() encoderPhyContSize AVC encoder work memory size obtained with sceMp4RecQueryPhysicalMemSize() (\*pEncodeWorkMemSize) *pAvRecPhyContPtr* Pointer allocated with sceKernelGetMemBlockBase() AV recorder memory size obtained with avRecPhyContSize sceMp4RecQuervPhysicalMemSize() (\*pAvRecMemSize) affinityForWriteThread CPU affinity mask for the write thread in the library

Priority for the write thread in the library

#### **Description**

This structure is used to set memory data to initialize the AVC encoder and MP4 recorder feature with <code>sceMp4RecInit()</code>. A thread to write to a file is generated in the library. The CPU affinity mask and priority of the thread can be specified in this structure.

For size, specify size of (SceMp4RecInitParam).

priorityForWriteThread

For *recMode*, specify the MP4 recording mode constant. In addition, MP4 recording mode option constants can be specified with a logical OR.

Call sceMp4RecQueryPhysicalMemSize() in advance to have the AVC encoder work memory size and AV recorder memory size of the specified recMode obtained.

For pEncoderPhyContPtr, after using <code>sceKernelAllocMemBlock()</code> to allocate an un-cached continuous physical address space (custom DRAM or physically continuous memory on main memory) with 256 KiB alignment in the AVC encoder work memory size, specify the base address that was obtained with <code>sceKernelGetMemBlockBase()</code>.

For <code>encoderPhyContSize</code>, specify the AVC encoder work memory size obtained with <code>sceMp4RecQueryPhysicalMemSize()</code>.

For pAvRecPhyContPtr, after using sceKernelAllocMemBlock() to allocate an un-cached continuous physical address space (custom DRAM or physically continuous memory on main memory) with 256 byte alignment in the AV recorder memory size, specify the base address that was obtained with sceKernelGetMemBlockBase().

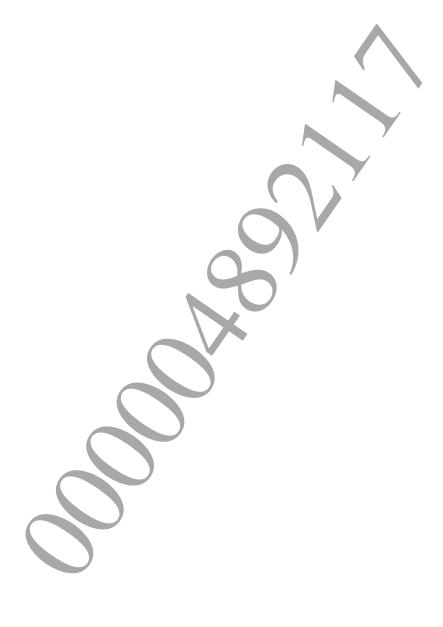
For avRecPhyContSize, specify the AV recorder memory size obtained with sceMp4RecQueryPhysicalMemSize().

For affinityForWriteThread, set the CPU affinity mask of the thread to write to a file in the library.

For priorityForWriteThread, set the priority of the thread to write to a file in the library. For values of CPU affinity mask and priority, refer to the "Kernel Reference" document.

### See Also

sceMp4RecQueryPhysicalMemSize(),sceMp4RecInit()



# SceMp4RecTermParam

#### MP4 recorder feature termination data

#### **Definition**

#### **Members**

sizeSize of the structureisCancelCancel flagreservedReserved area (512 bytes)pMetadataPointer to the SceMp4RecMetadata structure

### **Description**

When sceMp4RecTerm() is called, the data recorded up to that point will be output as an MP4 file. To cancel processing after starting recording, set true to isCancel and call sceMp4RecTerm(). The MP4 file being recorded will be deleted.

When ending recording to create a MP4 file, set false to isCancel.

To set metadata in an MP4 file, specify a pointer to the SceMp4RecMetadata structure in pMetadata. Clear with zeroes when not setting metadata.

## See Also

sceMp4RecTerm(),SceMp4RecMetadata



# SceMp4RecMetadata

#### Metadata

#### **Definition**

```
#include <mp4rec.h>
typedef struct SceMp4RecMetadata{
        SceUInt32 size;
        SceUInt32 lang;
        SceUInt32 titleSize;
        void* pTitle;
        SceUInt32 descriptionSize;
        void* pDescription;
        SceUInt32 copyrightNoticeSize;
        void* pCopyrightNotice;
        SceUInt32 parentalLevel;
        SceUInt32 numOfChapter;
        SceUInt32* pTopOfChapterTbl;
        SceUInt32 numOfThumbnail;
        SceMp4RecThumbnailInfo thumbnailInfo[SCE MP4REC THUMBNAIL NUM MAX];
} SceMp4RecMetadata;
```

#### **Members**

size Size of the structure Language of the metadata lang titleSize Size of the title (bytes) Pointer to buffer storing the title pTitle descriptionSize Size of description (bytes) pDescription Pointer to buffer storing description copyrightNoticeSize Size of copyright notice (bytes) pCopyrightNotice Pointer to buffer storing copyright notice parentalLevel Parental control level numOfChapter Number of chapters pTopOfChapterTbl Pointer to the top of the chapter table numOfThumbnail Number of thumbnails (maximum: 2) Thumbnail information thumbnailInfo

#### Description

This structure is for setting metadata to store in an MP4 file.

When setting metadata, *lang* is a required item. Specify the applicable language with the metadata language constant.

Create text metadata for the title, description, and copyright notice in the UTF16-BE format. NULL termination is required at the end of each text. For each metadata size, specify the valid text size including NULL termination. A linefeed character cannot be included in a title.

When not specifying text metadata, make sure sizes and buffer pointers are cleared with zeroes.

The maximum value for titleSize is 256 bytes.

The maximum values for descriptionSize and copyrightNoticeSize are 2000 bytes.

The parental control level specified in <code>parentalLevel</code> will be applied to the saved MP4 file; note that it differs from the parental control level of the application. Specify 0 when not setting a parental control level. Regarding the relationship between PlayStation®Vita and the parental control level of contents, refer to "PlayStation®Vita User's Guide".

http://manuals.playstation.net/document/en/psvita/index.html

To set chapters, allocate a continuous area - worth the number of chapters - of the SceUInt32 type with pTopOfChapterTb1 as the beginning address and set chapter data to the area in millisecond units. Set the number of chapters in numOfChapter. The maximum value for the number of chapters is 999.

When not specifying chapters, clear numOfChapter and pTopOfChapterTbl with zeroes.

Up to two thumbnails can be set.

The image format that can be used is PNG only.

When specifying a thumbnail, an image of  $160 \times 120$  is required. It is possible to set an image larger than  $160 \times 120$  for the second thumbnail. However, the maximum size for a displayable thumbnail image is  $432 \times 240$ . Upon playback, thumbnail of a size larger than  $160 \times 120$  will be prioritized for use.

The maximum size for thumbnail data is 1 MiB.

When not setting thumbnails, specify 0 to numOfThumbnail

#### See Also

sceMp4RecTerm(), SceMp4RecTermParam, SceMp4RecThumbnailInfo

# SceMp4RecThumbnailInfo

## Thumbnail information

#### **Definition**

#### **Members**

pngSize Data size of thumbnail informationpPng Pointer to buffer storing thumbnail information

### **Description**

This structure is for setting information of thumbnails in the PNG format. For pngSize, specify the data size of the thumbnail information. For ppng, set the pointer to the buffer storing the thumbnail information.

#### See Also

sceMp4RecTerm(),SceMp4RecTermParam,SceMp4RecMetadata



# SceMp4RecFrameOptionRGBA

## Frame option RGBA data

#### **Definition**

#### **Members**

alpha Specify 0xff

cscCoefficient Specify the color space conversion coefficient type when converting from RGBA

to YCbCr

reserved Used within library (reserved area)

### **Description**

This structure stores data handled as option data within the picture data.

#### See Also

sceMp4RecCsc(), Color Space Conversion Coefficient Type

# SceMp4RecFrameOption

## Frame option data

#### **Definition**

#### **Members**

reserved Used within library (reserved area)
rgba Frame option RGBA data

## **Description**

This union stores data handled as option data within the picture data.

Specify rgba when using option parameters of RGBA format data with sceMp4RecCsc().

### See Also

sceMp4RecCsc(), SceMp4RecFrameOptionRGBA



# SceMp4RecFrame

#### Frame data

#### **Definition**

#### Members

pixelType Pixel type

framePitch Horizontal frame pitch (in pixels)

frameWidth Frame width (in pixels)
frameHeight Frame height (in pixels)
opt Frame option data

pPicture[0] Pointer to destination to store frame

pPicture[1] Reserved area

### Description

This structure stores picture data input/output upon encoding with sceMp4RecCsc().

To pixelType, specify the constant of the pixel type. However, the input to sceMp4RecAddVideoSample() must always be SCE\_MP4REC\_PIXEL\_YUV420\_PACKED\_RASTER. When enabling opt, add SCE MP4REC\_OPTION\_ENABLE as an OR.

To framePitch, set the horizontal frame pitch of the area storing the frame data in pixels. Set this in multiples of 16, from 64 to 640 (however, when pixelType is SCE MP4REC PIXEL YUV420 RASTER, in multiples of 32).

To frameWidth, set the frame width of the area storing the frame data in pixels. Set this in multiples of 16, from 64 to 640.

To frameHeight, set the frame height of the area storing the frame data in pixels. Set this in multiples of 16, from 64 to 480.

The framePitch x frameHeight area must be no greater than 640 x 480. Moreover, frameWidth must be framePitch or less.

Sample input to sceMp4RecAddVideoSample() must be of the SCE\_MP4REC\_PIXEL\_YUV420\_PACKED\_RASTER pixel type and frameWidth and frameHeight must be the same value as the frame size set to the MP4 recording mode of the SceMp4RecInitParam structure with sceMp4RecInit(). Make sure framePitch and frameWidth have the same value.

To <code>pPicture[0]</code>, set the starting address of the area for storing the frame data. Allocate the area for storing the frame data with a 256-byte alignment on un-cached continuous physical address space (custom DRAM or physical continuous memory on main memory).

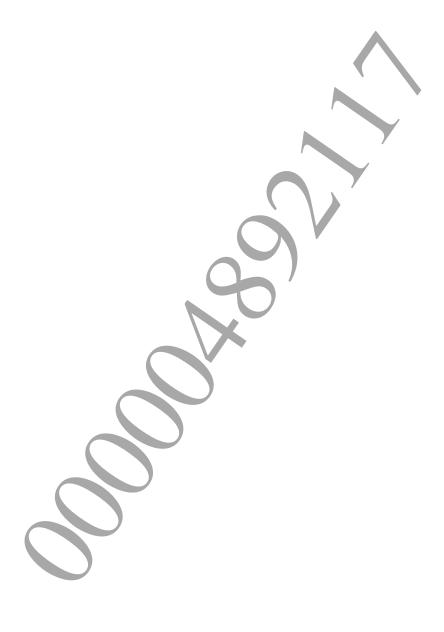
Because pPicture[1] is a reserved area, always assign NULL.

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When a change in frame size or pixel type is required, carry out conversion in advance with sceMp4RecCsc().

### See Also

 $\verb|sceMp4RecAddVideoSample()|, \verb|sceMp4RecCsc()|, Pixel Type|, \verb|SceMp4RecPicture|, SceMp4RecFrameOption|$ 



# SceMp4RecPicture

## Picture data

#### **Definition**

#### **Members**

size Size of the structureframe Frame data

## **Description**

This structure stores the picture data used when converting the pixel format with sceMp4RecCsc(). Specify sizeof(SceMp4RecPicture) to size.

### See Also

sceMp4RecAddVideoSample(),SceMp4RecFrame,SceMp4RecFrameOption





# sceMp4RecCreateRecorder

## Create Mp4Rec library instance

#### **Definition**

#### **Arguments**

pCtrl Mp4Rec library control data

#### **Return Values**

Value	Description
0	Success
Negative number	Error (for details, see "Return Codes")

## **Description**

This function creates an Mp4Rec library instance and sets the heap memory used by the Mp4Rec library.

For heapSize of pCtrl, set a value larger than  $SCE\_MP4REC\_MIN\_HEAP\_SIZE$ .

For heap memory allocation, refer to the "SceMp4RecCtrl" section.

Multiple Mp4Rec instances cannot be created. To create multiple MP4 files, repeat the procedure from creating an Mp4Rec library instance until it is deleted. For basic processing, refer to the "Mp4Rec Library Overview" document.

#### **Examples**

```
SceMp4RecCtrl ctrl;
int res = sceMp4RecCreateRecorder (&ctrl);
```

#### See Also

sceMp4RecDeleteRecorder()

# sceMp4RecDeleteRecorder

Delete the Mp4Rec library instance

#### **Definition**

## **Arguments**

pCtrl Mp4Rec library control data

### **Return Values**

Value	Description
0	Success
Negative number	Error (for details, see "Return Codes")

#### **Description**

This function deletes the instance of the Mp4Rec library for MP4 recording.

For pCtrl, specify a pointer to the SceMp4RecCtrl structure obtained with sceMp4RecCreateRecorder().

### **Examples**

```
SceMp4RecCtrl ctrl;
int res = sceMp4RecDeleteRecorder (&ctrl);
```

## See Also

sceMp4RecCreateRecorder()

# sceMp4RecQueryPhysicalMemSize

Query physical continuous memory sizes to be used by the AVC encoder and AV recorder

#### **Definition**

## **Arguments**

pCtr1Mp4Rec library control datarecModeMP4 recording modepEncodeWorkMemSizePointer to destination to store AVC encoder work memory sizepAvRecMemSizePointer to destination to store AV recorder memory size

#### **Return Values**

Value	Description
0	Initialization succeeded
Negative number	Error (for details, see "Return Codes")

### **Description**

This function obtains the AVC encoder work memory size and AV recorder memory size required for sceMp4RecInit().

For pCtrl, specify the Mp4Rec library control data created with sceMp4RecCreateRecorder().

For recMode, specify one of the MP4 recording modes (SCE MP4REC MODE XXX).

 $For \ p{\tt EncodeWorkMemSize}, the \ AVC \ encoder \ work \ memory \ size \ required \ for \ recording \ will \ be \ set.$ 

For pavRecMemSize, the AV recorder memory size required for recording will be set.

#### **Examples**

### See Also

sceMp4RecInit()

# sceMp4RecInit

Initialize the MP4 recorder feature

#### **Definition**

### **Arguments**

pCtrl Mp4Rec library control datapParam MP4 recorder feature initialization data

#### **Return Values**

Value	Description
0	Initialization succeeded
Negative number	Error (for details, see "Return Codes")

### **Description**

This function initializes the MP4 recorder feature.

For pCtrl, specify the Mp4Rec library control data created with sceMp4RecCreateRecorder(). For pParam, specify the data for initializing the MP4 recorder feature. For details on the AVC encoder memory and AV recorder memory to set with pParam, refer to the "SceMp4RecInitParam" section.

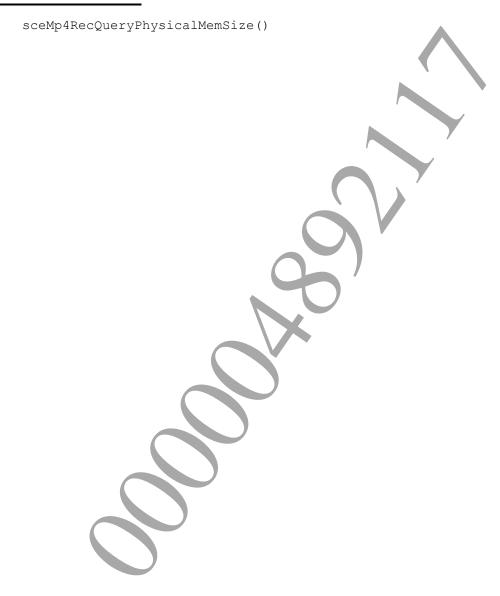
#### **Examples**

```
SceMp4RecCtrl ctrl;
SceUInt32 encodeWorkMemSize;
SceUInt32 avRecMemSize;
int res = sceMp4RecQueryPhysicalMemSize(
        &ctrl, SCE MP4REC MODE XXX, &encodeWorkMemSize, &avRecMemSize);
SceUID encwork = sceKernelAllocMemBlock(
        "encwork",
SCE_KERNEL_MEMBLOCK_TYPE_USER_MAIN_PHYCONT_NC_RW
        encodeWorkMemSize,0);
if (encwork
            >= 0) {
         res =
              sceKernelGetMemBlockBase(
                      encwork, &encPtr);
SceUID avRecMem = sceKernelAllocMemBlock(
        "avRecMem",
        SCE KERNEL MEMBLOCK TYPE USER MAIN PHYCONT NC RW
        avRecMemSize, 0);
if (avRecMem >= 0) {
        res = sceKernelGetMemBlockBase(
                      avRecMem, &avRecPtr);
SceMp4RecInitParam param;
```

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```
param.size = sizeof(SceMp4RecInitParam);
param.recMode = SCE_MP4REC_MODE_XXX;
param.pEncoderPhyContPtr = encPtr;
param.encoderPhyContSize = encodeWorkMemSize;
param.pAvRecPhyContPtr = avRecPtr;
param.avRecPhyContSize = avRecMemSize;
param.affinityForWriteThread = SCE_KERNEL_CPU_MASK_USER_ALL;
param.priorityForWriteThread = SCE_KERNEL_DEFAULT_PRIORITY_USER;
res = sceMp4RecInit(&ctrl, &param);
```

#### See Also



# sceMp4RecTerm

Terminate the MP4 recorder feature

#### **Definition**

### **Arguments**

pCtrl Mp4Rec library control data
pParam MP4 recorder feature termination data

#### **Return Values**

Value	Description
0	Initialization succeeded
Negative number	Error (for details, see "Return Codes")

### **Description**

This function carries out termination processing of the MP4 recorder feature and makes the created MP4 file usable

When this function is not called after the end of a recording, the MP4 file is still incomplete and an abnormal file will be created. Make sure to call this function upon ending recording.

For pCtrl, specify the Mp4Rec library control data created with sceMp4RecCreateRecorder().

To cancel after starting recording, call this function with true specified to <code>isCancel</code> of <code>pParam</code>. The file being recorded will be deleted.

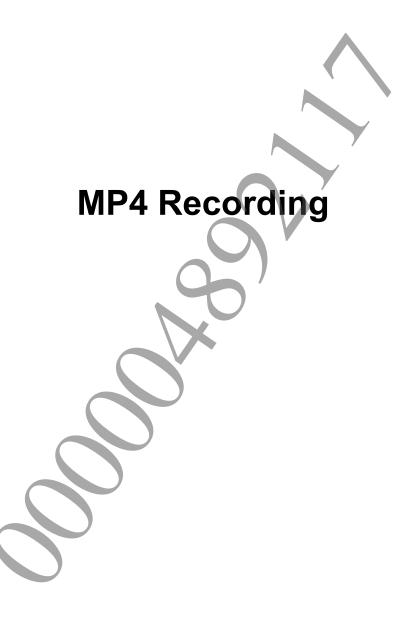
When setting metadata to an MP4 file, set the pointer to the SceMp4RecMetadata structure in pMetadata of SceMp4RecTermParam. For details on metadata setting, refer to the "SceMp4RecMetadata" section.

## **Examples**

```
SceMp4RecCtrl ctrl;
SceMp4RecTermParam param;
param.size = sizeof(SceMp4RecTermParam);
int res = sceMp4RecTerm(&ctrl, &param);
```

#### See Also

sceMp4RecInit()



# sceMp4RecAddVideoSample

#### Add video sample

#### **Definition**

### **Arguments**

pCtrl Mp4Rec library control datapBuffer Pointer to the buffer storing the video samplebufSize Size of pBuffer

#### **Return Values**

Value	Description	
0	Success	
Negative number	Error (for details, see "Return Codes")	

#### **Description**

This function adds a video sample (one picture) to the MP4 file.

For pCtrl, specify the Mp4Rec library control data created with sceMp4RecCreateRecorder().

For pBuffer, specify the video buffer storing the video sample, on which color space conversion was carried out and the pixel type was converted to SCE MP4REC PIXEL YUV420 PACKED RASTER.

For bufSize, specify the size of pBuffer.

MP4 recording APIs only support encoding of same-size frames. When the original frame buffer size differs with the recording size, size must be aligned. For example, when the frame buffer is 960 x 544 and the MP4 recording mode is SCE\_MP4REC\_MODE\_640X368\_2MBPS, use sceMp4RecCsc() to reduce the frame size to 640 x 368. In this case, the buffer size of one video sample will be 640 x 368 x 1.5 as it is converted to the SCE\_MP4REC\_PIXEL\_YUV420\_PACKED\_RASTER format.

Note that the frame rate is fixed at 29.97 Hz.

#### **Examples**

```
SceMp4RecCtrl ctrl;
int res = sceMp4RecAddVideoSample(&ctrl, pBuf, size);
```

#### See Also

sceMp4RecAddAudioSample(),sceMp4RecCsc()

# sceMp4RecAddAudioSample

## Add audio sample

#### **Definition**

### **Arguments**

pCtrl Mp4Rec library control datapBuffer Pointer to the buffer storing the audio samplebufSize Size of pBuffer

#### **Return Values**

Value	Description	
0	Success	
Negative number	Error (for details, see "Return Codes")	

#### **Description**

This function adds an audio sample (1024 samples) to an MP4 file.

For pCtrl, specify the Mp4Rec library control data created with sceMp4RecCreateRecorder(). For pBuffer, set RAW data of 1024 samples (one frame).

For <code>bufSize</code>, specify the size of <code>pBuffer</code>. Because encoding specification only allows AAC 16 bit stereo, the size will be 4096 bytes per one frame.

### **Examples**

```
SceMp4RecCtrl ctrl;
int res = sceMp4RecAddAudioSample(&ctrl, pBuf, size);
```

#### See Also

sceMp4RecAddVideoSample()

# sceMp4RecCsc

Perform CSC for one picture and expand/reduce frame size

#### **Definition**

### **Arguments**

pDst Output picture data pSrc Input picture data

#### **Return Values**

Value	Description
0	Success
Negative number	Error (for details, see "Return Codes")

### **Description**

This function performs color space conversion for one picture and expands/reduces the frame size so that input can be made to sceMp4RecAddVideoSample().

For pDst, specify the buffer storing the parameters to receive after conversion for one picture.

For pSrc, input data for one picture before conversion.

Only SCE\_MP4REC\_PIXEL\_YUV420\_PACKED\_RASTER is supported as the pixel type of a picture that can be specified to sceMp4RecAddVideoSample(). For pixelType of pDst, specify SCE MP4REC PIXEL YUV420 PACKED PASTER.

Moreover, the frame size of the picture that can be specified to <code>sceMp4RecAddVideoSample()</code> must be the same value as the frame size of the MP4 recording mode set with <code>sceMp4RecInit()</code>. For <code>frameWidth</code> and <code>frameHeight</code> of the <code>SceMp4RecFrame</code> structure within the <code>SceMp4RecPicture</code> structure specified to <code>pDst</code>, match the frame size with the MP4 recording mode. Make sure <code>framePitch</code> and <code>frameWidth</code> have the same value.

If the frame size of the input picture of pSrc and the output picture of pDst differs, the frame size will be expanded/reduced by bilinear interpolation to align to the size of pDst. However, note that the expansion/reduction of frameWidth and frameHeight is limited to 25% - 400%.

When the pixel type of the input picture specified to pSrc (pixelType of the SceMp4RecFrame structure in the SceMp4RecPicture structure) is SCE\_MP4REC\_PIXEL\_RGBA8888 or SCE\_MP4REC\_PIXEL\_BGRA8888, specify SCE\_MP4REC\_OPTION\_ENABLE in combination to pixelType to specify the cscCoefficient in the SceMp4RecFrameOptionRGBA structure. This will enable you to specify the coefficient upon color converting from RGBA to YCbCr at the time of picture input.

When specifying <code>cscCoefficient</code>, also refer to the "Color Gamut Coefficients (Color Conversion Coefficients)" section in the "Mp4Rec Library Overview" document.

For both *pDst* and *pSrc*, parameters must be set in advance to the picture storing buffer and structures.

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For details on the areas of the picture buffers each storing one picture (input/output), refer to the sections of "SceMp4RecPicture" and "SceMp4RecFrame" as well as the "Frame Data of Pictures" and "Restriction on the Buffer for Placing Video Samples" sections of the "Mp4Rec Library Overview" document.

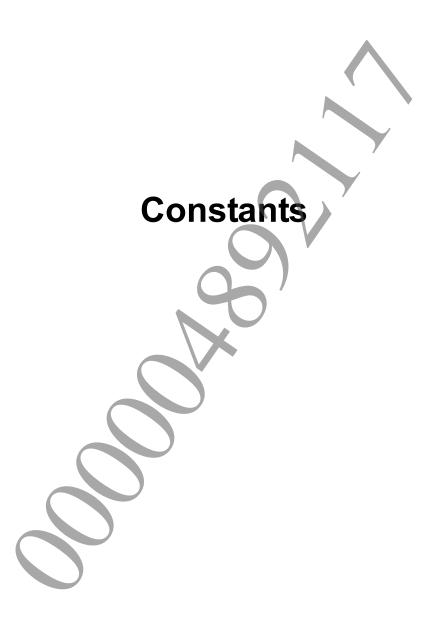
This function can be used even if an Mp4Rec library instance is not created with sceMp4RecCreateRecorder() and sceMp4RecInit().

#### **Examples**

```
SceMp4RecPicture dst;
SceMp4RecPicture src;
memset(&src,0,sizeof(SceMp4RecPicture));
memset(&dst,0,sizeof(SceMp4RecPicture));
dst.size = src.size = sizeof(SceMp4RecPicture);
src.frame.pixelType = SCE MP4REC PIXEL RGBA8888|SCE MP4REC OPTION ENABLE;
src.frame.framePitch = framebuf.pitch;
src.frame.frameWidth = framebuf.width;
src.frame.frameHeight = framebuf.height;
src.frame.pPicture[0] = framebuf.ptr;
src.frame.opt.rqba.cscCoefficient = SCF_MP4REC_CSC_COEFFICIENT_ITU709;
dst.frame.pixelType = (SceUInt32)SCE MP4REC
                                             PIXEL YUV420 PACKED RASTER;
dst.frame.framePitch = 640;
dst.frame.frameWidth = 640;
dst.frame.frameHeight = 368;
dst.frame.pPicture[0] = ptr;
int res = sceMp4RecCsc(&dst ,
                              &src
```

#### See Also

sceMp4RecAddVideoSample(), SceMp4RecPicture, SceMp4RecFrame, Pixel Type, Color Space Conversion Coefficient Type



# **MP4 Recording Mode**

## Constant indicating MP4 recording modes

#### **Definition**

```
#define SCE_MP4REC_MODE_640X368_2MBPS (0U)
#define SCE_MP4REC_MODE_640X368_1MBPS (1U)
#define SCE_MP4REC_MODE_480X272_2MBPS (2U)
#define SCE_MP4REC_MODE_480X272_1MBPS (3U)
#define SCE_MP4REC_MODE_368X208_2MBPS (4U)
#define SCE_MP4REC_MODE_368X208_1MBPS (5U)
```

## **Description**

This constant indicates MP4 recording modes.

Value	Frame Size	Bit Rate	AVC Level
SCE_MP4REC_MODE_640X368_2MBPS	640 x 368 pixel	2 Mbps	3.0
SCE_MP4REC_MODE_640X368_1MBPS	640 x 368 pixel	1 Mbps	3.0
SCE_MP4REC_MODE_480X272_2MBPS	480 x 272 pixel	2 Mbps	2,1
SCE_MP4REC_MODE_480X272_1MBPS	480 x 272 pixel	1 Mbps	2.1
SCE_MP4REC_MODE_368X208_2MBPS	368 x 208 pixel	2 Mbps	2.1
SCE_MP4REC_MODE_368X208_1MBPS	368 x 208 pixel	1 Mbps	2.1

The following are items common to all modes.

## [AVC Video]

Frame Rate	Recording Time Scale	Sample Duration	Profile
29.97 Hz	30000	1001	Baseline

## [AAC Audio]

<b>Bit Rate</b>	<b>Recording Time Scale</b>	Sample Duration	Sample Rate
128 Kbps	48000	1024	48 KHz

#### See Also

sceMp4RecQueryPhysicalMemSize(),sceMp4RecInit()

# **MP4 Recording Mode Options**

MP4 recording mode options

#### **Definition**

Value	(Number)	Description
SCE_MP4REC_MODE_OPTION_ITU601	0x00010000	ITU-R BT.601 standard
SCE_MP4REC_MODE_OPTION_ITU709	0x00020000	ITU-R BT.709 standard

## **Description**

These are the MP4 recording mode option constants. They can be additionally specified for the MP4 recording mode with a logical OR.

When setting a color gamut coefficient, specify SCE\_MP4REC\_MODE\_OPTION ITU601 or SCE MP4REC MODE OPTION ITU709.

### See Also

sceMp4RecQueryPhysicalMemSize(),sceMp4RecInit()



# **Recording Time Scale**

Time scale of the MP4 file

#### **Definition**

#define SCE\_MP4REC\_VIDEO\_TIMESCALE (30000)
#define SCE\_MP4REC\_AUDIO\_TIMESCALE (48000)

## **Description**

This is the time scale per one second for recording to an MP4 file.



# **Sample Duration**

Play duration for one frame of the MP4 file

#### **Definition**

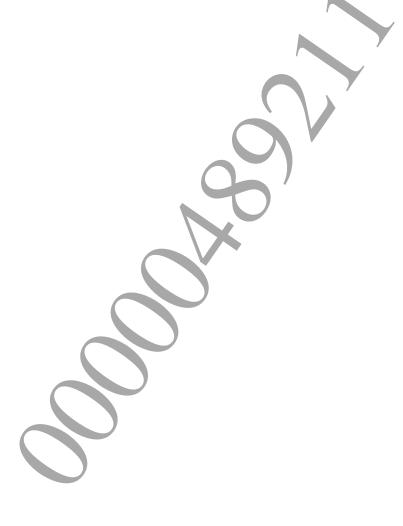
```
#define SCE_MP4REC_VIDEO_SAMPLE_DURATION (1001)
#define SCE_MP4REC_AUDIO_SAMPLE_DURATION (1024)
```

### **Description**

This is the display duration for one frame when recording to an MP4 file.

The denominator will be the time scale per one second.

Thus, the play duration of one video frame will be 1001/30000 seconds, and the play duration of one audio frame will be 1024/48000 seconds.



# **Minimum MP4 Recording Time**

Minimum time of MP4 recording

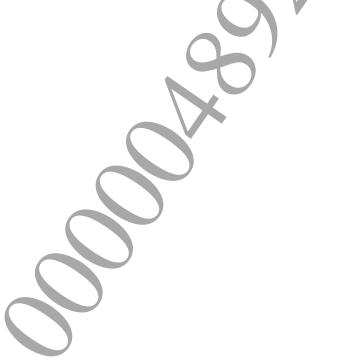
#### **Definition**

#define SCE MP4REC DURATION MIN (1000 \* 5) /\* msec \*/

## **Description**

This is the minimum time of MP4 recording supported by this library.

A file of less than five seconds cannot be created. When <code>sceMp4RecTerm()</code> is called for a file of less than five seconds, dummy data will be inserted within the API to create a five-second MP4 file.



# **Maximum MP4 Recording Time**

## Maximum time of MP4 recording

#### **Definition**

#define SCE MP4REC DURATION MAX (1000 \* 60 \* 30) /\* msec \*/

### **Description**

This is the maximum time of MP4 recording supported by this library.

A file of 30 minutes or longer cannot be created. When samples are added exceeded 30 minutes and sceMp4RecAddVideoSample() or sceMp4RecAddAudioSample() is called, SCE\_MP4REC\_ERROR\_DURATION\_LIMIT will return. Terminate recording with sceMp4RecTerm().



# **Minimum Heap Memory Size**

Minimum size of heap memory

### **Definition**

#define SCE MP4REC MIN HEAP SIZE (1024\*1024\*4)

### Description

This is the minimum value for heapSize of the SceMp4RecCtrl structure that is specified to sceMp4RecCreateRecorder().

This library requires a heap size of at least 4 MiB.



# **Pixel Type**

# Constant indicating the pixel type

#### **Definition**

#define SCE MP4REC PI	XEL RGBA8888	(0x0U)
#define SCE MP4REC PI	XEL BGRA8888	(0x8U)
#define SCE MP4REC PI	XEL YUV420 RASTER	(0x10U)
#define SCE MP4REC PI	XEL YUV420 PACKED RASTER	(0x20U)
#define SCE MP4REC OP	rion enable	(1<<31)

## Description

This constant indicates the pixel type.

Set this to the pixelType member of the SceMp4RecFrame structure.

When specifying the opt member of the SceMp4RecFrame structure, also specify SCE\_MP4REC\_OPTION\_ENABLE.

When used in sceMp4RecAddVideoSample(), the pixel type must be SCE\_MP4REC\_PIXEL\_YUV420\_PACKED\_RASTER.

#### See Also

SceMp4RecFrame, sceMp4RecAddVideoSample(), sceMp4RecCsc()

# **Color Space Conversion Coefficient Type**

Constant indicating the color conversion coefficient for picture input in color space conversion

#### **Definition**

Value	(Number)	Description
SCE_MP4REC_CSC_COEFFICIENT_DEFAULT	0	Default color gamut coefficient
		(ITU-R BT.601 standard)
SCE_MP4REC_CSC_COEFFICIENT_ITU601	1	ITU-R BT.601 standard
SCE_MP4REC_CSC_COEFFICIENT_ITU709	2	ITU-R BT.709 standard

## **Description**

This constant indicates the coefficient when color converting from RGBA to YCbCr upon picture input with sceMp4RecCsc().

Specify this to <code>cscCoefficient</code> of the <code>SceMp4RecFrameOptionRGBA</code> structure, which is the <code>rgba</code> member in the <code>SceMp4RecFrameOption</code> union, which in turn is the <code>opt</code> member of the <code>SceMp4RecFrame</code> structure.

When using this constant, also specify SCE\_MP4REC\_OPTION\_ENABLE to the pixelType member of the SceMp4RecFrame structure.

#### See Also

SceMp4RecFrameOptionRGBA, SceMp4RecFrame, sceMp4RecCsc()



# **Metadata Language**

## Constants for representing metadata language

## **Definition**

#define	SCE	MP4REC	LANG	JAPANESE	(0x2a0e)
#define	SCE	MP4REC	LANG	ENGLISH	(0x15c7)
#define	SCE	MP4REC	_ LANG	FRENCH	(0x1a41)
#define	SCE	MP4REC	LANG	SPANISH	(0x4e01)
#define	SCE	MP4REC	LANG	GERMAN	(0x10b5)
#define	SCE	MP4REC	LANG	ITALIAN	(0x2681)
#define	SCE	MP4REC	LANG	DUTCH	(0x3984)
#define	SCE	MP4REC	LANG	PORTUGUESE	(0x41f2)
#define	SCE	MP4REC	LANG	RUSSIAN	(0x4ab3)
#define	SCE	MP4REC	LANG	KOREAN	(0x2df2)
#define	SCE	MP4REC	LANG	CHINESE	(0x690f)
#define	SCE	MP4REC	LANG	FINNISH	(0x192e)
#define	SCE	MP4REC_	LANG	SWEDISH	(0x4ee5)
#define	SCE	MP4REC	LANG	DANISH	(0x102e)
#define	SCE	MP4REC_	_LANG_	NORWEGIAN_	(0x39f2)
#define	SCE	MP4REC	_LANG	_POLISH	(0x41ec)
#define	SCE	MP4REC_	_LANG_	_TURKISH	(0x52b2)

## **Description**

These constants represent languages in which the metadata is written. The specification of the metadata language using this constant is required when setting metadata.

#### See Also

sceMp4RecTerm(),SceMp4RecMetadata



# **Thumbnail Frame Size**

Frame sizes of a thumbnail to specify in metadata

#### **Definition**

#define	SCE MP4REC	THUMBNAIL WIDTH REQUIRED	(160)
#define	SCE_MP4REC	THUMBNAIL_HEIGHT_REQUIRED	(120)
#define	SCE_MP4REC	THUMBNAIL_WIDTH_MAX	(432)
#define	SCE MP4REC	THUMBNAIL HEIGHT MAX	(240)

## **Description**

These are frame size constants for thumbnails of metadata.

When specifying a thumbnail in metadata, an image of  $160 \times 120$  is required. An image of size larger than  $160 \times 120$  can be specified as an option.

### See Also

sceMp4RecTerm(), SceMp4RecMetadata, SceMp4RecThumbnailInfo

# **Return Codes**

List of return codes returned by the Mp4Rec library

## Definition

Value	(Number)	Description
	0x80108301	Invalid argument
SCE_MP4REC_ERROR_INVALID_ARG		0
SCE_MP4REC_ERROR_OUT_OF_MEMORY	0x80108302	Not enough memory
SCE_MP4REC_ERROR_INVALID_RECMODE	0x80108303	Invalid MP4 recording mode
SCE_MP4REC_ERROR_INVALID_BUFSIZE	0x80108304	Invalid buffer size
SCE_MP4REC_ERROR_NOT_INITIALIZED	0x80108305	Not initialized
SCE_MP4REC_ERROR_DURATION_LIMIT	0x80108306	Exceeded recording limit
SCE_MP4REC_ERROR_INTERNAL	0x80108307	Internal error
SCE_MP4REC_ERROR_NOSPACE	0x80108308	Not enough storage space
SCE_MP4REC_ERROR_STATE	0x80108309	Invalid status
SCE_MP4REC_ERROR_VIDEOENC_INVALID_PARAM	0x80108342	Invalid video encoder argument
SCE_MP4REC_ERROR_VIDEOENC_OUT_OF_MEMORY	0x80108343	Not enough memory in the
		video encoder
SCE_MP4REC_ERROR_VIDEOENC_INVALID_STATE	0x80108344	Invalid video encoder state
SCE_MP4REC_ERROR_ VIDEOENC_UNSUPPORT_IMAGE_SIZE	0x80108345	Image size not supported by the video encoder
SCE_MP4REC_ERROR_	0x80108346	Invalid color format
VIDEOENC_INVALID_COLOR_FORMAT		
SCE_MP4REC_ERROR_ VIDEOENC_NOT_PHY_CONTINUOUS_MEMORY	0x80108347	Not physical continuous
SCE MP4REC ERROR VIDEOENC ALREADY USED	0.00100240	memory area
SCE_MP4REC_ERROR_VIDEOENC_ALREADY_USED	0x80108348	Video encoder is already being used
SCE MP4REC ERROR VIDEOENC INVALID POINTER	0x80108349	Invalid pointer
SCE MP4REC ERROR VIDEOENC INITIALIZE	0x8010834B	Error occurred during video
		encoder initialization
SCE_MP4REC_ERROR_VIDEOENC_NOT_INITIALIZE	0x8010834C	Video encoder is not
		initialized
SCE_MP4REC_ERROR_	0x8010834E	Value of sizeof (structure)
VIDEOENC_INVALID_ARGUMENT_SIZE		is not specified in size
COL MDADES EDDON MACING THURSE DADAM	0.00100250	member of structure
SCE_MP4REC_ERROR_AVCENC_INVALID_PARAM	0x80108352	Invalid AVC encoder argument
SCE MP4REC ERROR AVCENC OUT OF MEMORY	0x80108353	Not enough memory in the
SCH_MI 4MBC_HIMONI	0.00100333	AVC encoder
SCE MP4REC ERROR AVCENC INVALID STATE	0x80108354	Invalid AVC encoder state
SCE MP4REC ERROR	0x80108355	Image size not supported by
AVCENC_UNSUPPORT_IMAGE_SIZE		the AVC encoder
SCE_MP4REC_ERROR_ AVCENC INVALID COLOR FORMAT	0x80108356	Invalid color format
SCE_MP4REC_ERROR_	0x80108357	Not physical continuous
AVCENC_NOT_PHY_CONTINUOUS_MEMORY		memory area
SCE_MP4REC_ERROR_AVCENC_ALREADY_USED	0x80108358	AVC encoder is already
		being used
SCE_MP4REC_ERROR_AVCENC_INVALID_POINTER	0x80108359	Invalid pointer

V-1	(NT 1)	Description
Value	(Number)	Description
SCE_MP4REC_ERROR_	0x8010835A	Picture buffer of the AVC
AVCENC_PICTURE_BUFFER_FULL		encoder overflowed
SCE_MP4REC_ERROR_AVCENC_INITIALIZE	0x8010835B	Error occurred during AVC
		encoder initialization
SCE_MP4REC_ERROR_AVCENC_NOT_INITIALIZE	0x8010835C	AVC encoder is not
		initialized
SCE MP4REC ERROR	0x8010835D	Invalid AVC encoder
AVCENC_INVALID_ENCODE_PARAM		argument
SCE MP4REC ERROR	0x8010835E	Value of sizeof (structure)
AVCENC_INVALID_ARGUMENT_SIZE		is not specified in size
		member of structure
SCE_MP4REC_ERROR_AVCENC_MAXAUSIZE	0x80108361	Exceeded maximum AU
	0,00100001	size
SCE MP4REC ERROR AACENC INVALIDARG	0x80108381	Invalid AAC encoder
	0,00100501	argument
SCE MP4REC ERROR AACENC INVALIDHANDLE	0x80108382	Invalid AAC encoder
Sed_HI 4106_BRIOR_INCORE_INVISIBILINIVIBLE	0x60100362	handle
CCE MD/DEC EDDOD AACENC OUROEMEMODY	0x80108383	Not enough memory in the
SCE_MP4REC_ERROR_AACENC_OUTOFMEMORY	0x80108383	
COE MDADEC EDDOD AACENC INEEDNAI	0.0010000/1	AAC encoder
SCE_MP4REC_ERROR_AACENC_INTERNAL	0x80108384	AAC encoder internal error
SCE_MP4REC_ERROR_AACENC_FRAME_LIMIT	0x80108385	Exceeded maximum frame
		size of the AAC encoder
SCE_MP4REC_ERROR_AACENC_NOTIMPL	0x80108386	Unimplemented feature was
	V	called
SCE_MP4REC_ERROR_AVREC_OUT_OF_MEMORY	0x801083A1	Not enough memory in the
		AV recorder
SCE_MP4REC_ERROR_AVREC_FATAL	0x801083A2	Fatal error in AV recorder
SCE MP4REC ERROR AVREC INVALID VALUE	0x801083A3	Invalid AV recorder
		argument
SCE MP4REC ERROR AVREC VENC BUFFER FULL	0x801083A4	Encode buffer of the AV
	0,001000111	recorder overflowed
SCE MP4REC ERROR AVREC FILE ACCESS	0x801083A5	AV recorder cannot access
	0.001003713	file
SCE MP4REC ERROR AVREC FILE OPERATION	0x801083A6	AV recorder cannot operate
Sel HI 4KBC BIGGI ANTIBC I HIB OT BIGITION	0x001003A0	file
SCE MP4REC ERROR AVREC NOT IMPLEMENT	0.001000 47	
SCE_MF4REC_ERROR_AVREC_NOT_IMPLEMENT	0x801083A7	Unimplemented feature was
CCE MD/DEC EDDOD AVDEC DIFERED FILLI	0.001000 4.0	called
SCE_MP4REC_ERROR_AVREC_BUFFER_FULL	0x801083A8	Buffer overflowed in the AV
COL MD (DEC 1200)	0.00100210	recorder
SCE_MP4REC_ERROR_	0x801083A9	Exceeded maximum
AVREC_SAMPLE_NUM_BUFFER_FULL		multiplex buffering samples
		of the AV recorder
SCE_MP4REC_ERROR_AVREC_VIDEO_BUFFER_FULL	0x801083AA	Multiplex buffer of the AV
		recorder overflowed
SCE_MP4REC_ERROR_	0x801083AB	Exceeded maximum video
AVREC_VIDEO_SAMPLE_NUM_BUFFER_FULL		multiplex buffering samples
		of the AV recorder
SCE_MP4REC_ERROR_AVREC_AUDIO_BUFFER_FULL	0x801083AC	Audio multiplex buffer of
		the AV recorder overflowed
SCE_MP4REC_ERROR_	0x801083AD	Exceeded maximum audio
AVREC_AUDIO_SAMPLE_NUM_BUFFER_FULL		multiplex buffering samples
		of the AV recorder
SCE MP4REC ERROR	0x801083AE	Invalid pointer
AVREC VENC RET INVALID POINTER		F
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Value	(Number)	Description
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SCE_MP4REC_ERROR_AVREC_NAACENC_INVALIDARG	0x801083B1	Invalid AAC encoder
CCE MDADEC EDDOD	0.00100000	argument
SCE_MP4REC_ERROR_	0x801083B2	Invalid AAC encoder
AVREC_NAACENC_INVALIDHANDLE	0.00400000	handle
SCE_MP4REC_ERROR_	0x801083B3	Not enough memory in the
AVREC_NAACENC_OUTOFMEMORY	0.004.00204	AAC encoder
SCE_MP4REC_ERROR_AVREC_NAACENC_INTERNAL	0x801083B4	Internal error
SCE_MP4REC_ERROR_	0x801083B5	Exceeded maximum frame
AVREC_NAACENC_FRAME_LIMIT	0.0040000	size of the AAC encoder
SCE_MP4REC_ERROR_AVREC_NAACENC_NOTIMPL	0x801083B6	Unimplemented feature was
COE MDADEO EDDOD AVDEO MAAGENO EAGAI	0.00100000	called
SCE_MP4REC_ERROR_AVREC_NAACENC_FATAL	0x801083B7	Fatal error in AAC encoder
SCE_MP4REC_ERROR_AVREC_FF4_ARGS	0x801083C1	Invalid MP4 multiplexer
		argument
SCE_MP4REC_ERROR_AVREC_FF4_STATE	0x801083C2	Invalid MP4 multiplexer
	2 221222	state
SCE_MP4REC_ERROR_AVREC_FF4_NOMEM	0x801083C3	Not enough memory in the
OCE MD/DEC EDDOD AVDEC DE/ DITE	0.00100004	MP4 multiplexer
SCE_MP4REC_ERROR_AVREC_FF4_FILE	0x801083C4	Invalid file access in MP4
COE MDADEC EDDOD AVDEC HEA NOMEOUND	0.00100005	multiplexer
SCE_MP4REC_ERROR_AVREC_FF4_NOTFOUND	0x801083C5	File cannot be found in MP4
CCE MD/DEC EDDOD AUDEC EE/ OVEDELOW	0.00100266	multiplexer Buffer overflow in MP4
SCE_MP4REC_ERROR_AVREC_FF4_OVERFLOW	0x801083C6	
SCE MP4REC ERROR AVREC FF4 FORMAT	0x801083C7	multiplexer Invalid format in MP4
SCE_MITALEC_ENTON_AVILEC_FFT_FORMAT	0x601063C7	multiplexer
SCE_MP4REC_ERROR_AVREC_FF4_INTERNAL	0x801083C8	Internal error in the MP4
	0,00100000	multiplexer
SCE_MP4REC_ERROR_AVREC_FF4_FATAL	0x801083C9	Fata l error in MP4
		multiplexer
SCE_MP4REC_ERROR_EXPORT_PARAM	0x801083E1	Invalid export argument
SCE MP4REC ERROR EXPORT FILE NOT FOUND	0x801083E2	Export file cannot be found
SCE MP4REC ERROR EXPORT CONTENT FULL	0x801083E3	Exceeded maximum
		number of contents that can
		be registered
SCE_MP4REC_ERROR_EXPORT_NO_MEMORY	0x801083E4	Ran out of memory during
		export
SCE_MP4REC_ERROR_EXPORT_SERVER_DOWN	0x801083E5	Server is not running
SCE_MP4REC_ERROR_EXPORT_TOO_MANY_CLIENT	0x801083E6	Exceeded maximum server
		connections
SCE_MP4REC_ERROR_EXPORT_MEDIA_FULL	0x801083E7	Not enough storage space
SCE_MP4REC_ERROR_EXPORT_CREATE_FILE	0x801083E8	Temporary file creation
		error
SCE_MP4REC_ERROR_	0x801083E9	Invalid file format
EXPORT_NOT_SUPPORTED_FORMAT		
SCE_MP4REC_ERROR_EXPORT_CANCELED	0x801083EA	Export was canceled
SCE_MP4REC_ERROR_EXPORT_MEDIA_NOT_EXIST	0x801083EB	No memory card
SCE_MP4REC_ERROR_EXPORT_DB_CORRUPTED	0x801083EC	Database is corrupted
SCE_MP4REC_ERROR_EXPORT_FILE_EXIST	0x801083ED	Export target file already
		exists
SCE_MP4REC_ERROR_EXPORT_INTERNAL	0x801083EE	Internal export error
SCE_MP4REC_ERROR_EXPORT_NOT_INITIALIZED	0x801083EF	Export is not initialized

Value	(Number)	Description
SCE_MP4REC_ERROR_EXPORT_OPEN_FAILED	0x801083F0	Export destination target
		device does not exist
SCE_MP4REC_ERROR_EXPORT_NOT_ENOUGH_AREA	0x801083F1	Not enough area to export
SCE_MP4REC_ERROR_EXPORT_NOT_VALID_STR	0x801083F2	String of export argument is
		not valid
SCE_MP4REC_ERROR_	0x801083F3	Export filename is not valid
EXPORT_NOT_VALID_FILENAME		_

