

libopusenc
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Chapter 1

Main Page

1.1 Introduction

This is the documentation for the `libopusenc` C API.

The `libopusenc` package provides a convenient high-level API for encoding Ogg Opus files.

1.2 Organization

The main API is divided into several sections:

- [Encoding](#)
- [Comments Handling](#)
- [Encoding Options](#)
- [Callback Functions](#)
- [Error Codes](#)

1.3 Overview

The `libopusfile` API provides an easy way to encode Ogg Opus files using `libopus`.

Chapter 2

Module Index

2.1 Modules

Here is a list of all modules:

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Chapter 3

Data Structure Index

3.1 Data Structures

Here are the data structures with brief descriptions:

[OpusEncCallbacks](#)
 Callback functions for accessing the stream 23

Chapter 4

Module Documentation

4.1 Error Codes

List of possible error codes

Many of the functions in this library return a negative error code when a function fails.

This list provides a brief explanation of the common errors. See each individual function for more details on what a specific error code means in that context.

- `#define OPE_API_VERSION 0`
API version for this header.
- `#define OPE_OK 0`
- `#define OPE_BAD_ARG -11`
- `#define OPE_INTERNAL_ERROR -13`
- `#define OPE_UNIMPLEMENTED -15`
- `#define OPE_ALLOC_FAIL -17`
- `#define OPE_CANNOT_OPEN -30`
- `#define OPE_TOO_LATE -31`
- `#define OPE_INVALID_PICTURE -32`
- `#define OPE_INVALID_ICON -33`
- `#define OPE_WRITE_FAIL -34`
- `#define OPE_CLOSE_FAIL -35`

4.1.1 Detailed Description

4.1.2 Macro Definition Documentation

4.1.2.1 OPE_API_VERSION

```
#define OPE_API_VERSION 0
```

API version for this header.

Can be used to check for features at compile time.

4.2 Encoding Options

Control parameters

Macros for setting encoder options.

- #define **OPE_SET_DECISION_DELAY**(x) OPE_SET_DECISION_DELAY_REQUEST, __opus_check_int(x)
- #define **OPE_GET_DECISION_DELAY**(x) OPE_GET_DECISION_DELAY_REQUEST, __opus_check_int_ptr(x)
- #define **OPE_SET_MUXING_DELAY**(x) OPE_SET_MUXING_DELAY_REQUEST, __opus_check_int(x)
- #define **OPE_GET_MUXING_DELAY**(x) OPE_GET_MUXING_DELAY_REQUEST, __opus_check_int_ptr(x)
- #define **OPE_SET_COMMENT_PADDING**(x) OPE_SET_COMMENT_PADDING_REQUEST, __opus_check_int(x)
- #define **OPE_GET_COMMENT_PADDING**(x) OPE_GET_COMMENT_PADDING_REQUEST, __opus_check_int_ptr(x)
- #define **OPE_SET_SERIALNO**(x) OPE_SET_SERIALNO_REQUEST, __opus_check_int(x)
- #define **OPE_GET_SERIALNO**(x) OPE_GET_SERIALNO_REQUEST, __opus_check_int_ptr(x)
- #define **OPE_SET_PACKET_CALLBACK**(x, u) OPE_SET_PACKET_CALLBACK_REQUEST, (x), (u)
- #define **OPE_SET_HEADER_GAIN**(x) OPE_SET_HEADER_GAIN_REQUEST, __opus_check_int(x)
- #define **OPE_GET_HEADER_GAIN**(x) OPE_GET_HEADER_GAIN_REQUEST, __opus_check_int_ptr(x)
- #define **OPE_GET_NB_STREAMS**(x) OPE_GET_NB_STREAMS_REQUEST, __opus_check_int_ptr(x)
- #define **OPE_GET_NB_COUPLED_STREAMS**(x) OPE_GET_NB_COUPLED_STREAMS_REQUEST, __opus_check_int_ptr(x)

4.2.1 Detailed Description

4.3 Callback Functions

Data Structures

- struct [OpusEncCallbacks](#)
Callback functions for accessing the stream.

Callback functions

These are the callbacks that can be implemented for an encoder.

- typedef int(* [ope_write_func](#)) (void *user_data, const unsigned char *ptr, opus_int32 len)
Called for writing a page.
- typedef int(* [ope_close_func](#)) (void *user_data)
Called for closing a stream.
- typedef void(* [ope_packet_func](#)) (void *user_data, const unsigned char *packet_ptr, opus_int32 packet_len, opus_uint32 flags)
Called on every packet encoded (including header).

4.3.1 Detailed Description

4.3.2 Typedef Documentation

4.3.2.1 ope_write_func

```
typedef int(* ope_write_func) (void *user_data, const unsigned char *ptr, opus_int32 len)
```

Called for writing a page.

Parameters

<i>user_data</i>	user-defined data passed to the callback
<i>ptr</i>	buffer to be written
<i>len</i>	number of bytes to be written

Returns

error code

Return values

0	success
1	failure

4.3.2.2 ope_close_func

```
typedef int(* ope_close_func) (void *user_data)
```

Called for closing a stream.

Parameters

<i>user_data</i>	user-defined data passed to the callback
------------------	--

Returns

error code

Return values

0	success
1	failure

4.3.2.3 ope_packet_func

```
typedef void(* ope_packet_func) (void *user_data, const unsigned char *packet_ptr, opus_int32
packet_len, opus_uint32 flags)
```

Called on every packet encoded (including header).

Parameters

<i>user_data</i>	user-defined data passed to the callback
<i>packet_ptr</i>	packet data
<i>packet_len</i>	number of bytes in the packet
<i>flags</i>	optional flags (none defined for now so zero)

4.4 Comments Handling

Functions for handling comments

These functions make it possible to add comments and pictures to Ogg Opus files.

- OPE_EXPORT OggOpusComments * [ope_comments_create](#) (void)
Create a new comments object.
- OPE_EXPORT OggOpusComments * [ope_comments_copy](#) (OggOpusComments *comments)
Create a deep copy of a comments object.
- OPE_EXPORT void [ope_comments_destroy](#) (OggOpusComments *comments)
Destroys a comments object.
- OPE_EXPORT int [ope_comments_add](#) (OggOpusComments *comments, const char *tag, const char *val)
Add a comment.
- OPE_EXPORT int [ope_comments_add_string](#) (OggOpusComments *comments, const char *tag_and_val)
Add a comment as a single tag=value string.
- OPE_EXPORT int [ope_comments_add_picture](#) (OggOpusComments *comments, const char *filename, int picture_type, const char *description)
Add a picture from a file.
- OPE_EXPORT int [ope_comments_add_picture_from_memory](#) (OggOpusComments *comments, const char *ptr, size_t size, int picture_type, const char *description)
Add a picture already in memory.

4.4.1 Detailed Description

4.4.2 Function Documentation

4.4.2.1 ope_comments_create()

```
OPE_EXPORT OggOpusComments* ope_comments_create (
    void )
```

Create a new comments object.

Returns

Newly-created comments object.

4.4.2.2 ope_comments_copy()

```
OPE_EXPORT OggOpusComments* ope_comments_copy (
    OggOpusComments * comments )
```

Create a deep copy of a comments object.

Parameters

<i>comments</i>	Comments object to copy
-----------------	-------------------------

Returns

Deep copy of input.

4.4.2.3 ope_comments_destroy()

```
OPE_EXPORT void ope_comments_destroy (
    OggOpusComments * comments )
```

Destroys a comments object.

Parameters

<i>comments</i>	Comments object to destroy
-----------------	----------------------------

4.4.2.4 ope_comments_add()

```
OPE_EXPORT int ope_comments_add (
    OggOpusComments * comments,
```

```

    const char * tag,
    const char * val )

```

Add a comment.

Parameters

<i>in, out</i>	<i>comments</i>	Where to add the comments
	<i>tag</i>	Tag for the comment (must not contain = char)
	<i>val</i>	Value for the tag

Returns

Error code

4.4.2.5 ope_comments_add_string()

```

OPE_EXPORT int ope_comments_add_string (
    OggOpusComments * comments,
    const char * tag_and_val )

```

Add a comment as a single tag=value string.

Parameters

<i>in, out</i>	<i>comments</i>	Where to add the comments
	<i>tag_and_val</i>	string of the form tag=value (must contain = char)

Returns

Error code

4.4.2.6 ope_comments_add_picture()

```

OPE_EXPORT int ope_comments_add_picture (
    OggOpusComments * comments,
    const char * filename,
    int picture_type,
    const char * description )

```

Add a picture from a file.

Parameters

<i>in, out</i>	<i>comments</i>	Where to add the comments
	<i>filename</i>	File name for the picture
	<i>picture_type</i>	Type of picture (-1 for default)
	<i>description</i>	Description (NULL means no comment)

Returns

Error code

4.4.2.7 ope_comments_add_picture_from_memory()

```
OPE_EXPORT int ope_comments_add_picture_from_memory (
    OggOpusComments * comments,
    const char * ptr,
    size_t size,
    int picture_type,
    const char * description )
```

Add a picture already in memory.

Parameters

<code>in, out</code>	<code>comments</code>	Where to add the comments
	<code>ptr</code>	Pointer to picture in memory
	<code>size</code>	Size of picture pointed to by ptr
	<code>picture_type</code>	Type of picture (-1 for default)
	<code>description</code>	Description (NULL means no comment)

Returns

Error code

4.5 Encoding

Functions for encoding Ogg Opus files

These functions make it possible to encode Ogg Opus files.

- OPE_EXPORT OggOpusEnc * [ope_encoder_create_file](#) (const char *path, OggOpusComments *comments, opus_int32 rate, int channels, int family, int *error)
Create a new OggOpus file.
- OPE_EXPORT OggOpusEnc * [ope_encoder_create_callbacks](#) (const OpusEncCallbacks *callbacks, void *user_data, OggOpusComments *comments, opus_int32 rate, int channels, int family, int *error)
Create a new OggOpus stream to be handled using callbacks.
- OPE_EXPORT OggOpusEnc * [ope_encoder_create_pull](#) (OggOpusComments *comments, opus_int32 rate, int channels, int family, int *error)
Create a new OggOpus stream to be used along with [ope_encoder_get_page\(\)](#).
- OPE_EXPORT int [ope_encoder_deferred_init_with_mapping](#) (OggOpusEnc *enc, int family, int streams, int coupled_streams, const unsigned char *mapping)
Deferred initialization of the encoder to force an explicit channel mapping.
- OPE_EXPORT int [ope_encoder_write_float](#) (OggOpusEnc *enc, const float *pcm, int samples_per_channel)
Add/encode any number of float samples to the stream.

- OPE_EXPORT int [ope_encoder_write](#) (OggOpusEnc *enc, const opus_int16 *pcm, int samples_per_↵ channel)

Add/encode any number of 16-bit linear samples to the stream.
- OPE_EXPORT int [ope_encoder_get_page](#) (OggOpusEnc *enc, unsigned char **page, opus_int32 *len, int flush)

Get the next page from the stream (only if using [ope_encoder_create_pull\(\)](#)).
- OPE_EXPORT int [ope_encoder_drain](#) (OggOpusEnc *enc)

Finalizes the stream, but does not deallocate the object.
- OPE_EXPORT void [ope_encoder_destroy](#) (OggOpusEnc *enc)

Deallocates the object.
- OPE_EXPORT int [ope_encoder_chain_current](#) (OggOpusEnc *enc, OggOpusComments *comments)

Ends the stream and create a new stream within the same file.
- OPE_EXPORT int [ope_encoder_continue_new_file](#) (OggOpusEnc *enc, const char *path, OggOpus↵ Comments *comments)

Ends the stream and create a new file.
- OPE_EXPORT int [ope_encoder_continue_new_callbacks](#) (OggOpusEnc *enc, void *user_data, OggOpus↵ Comments *comments)

Ends the stream and create a new file (callback-based).
- OPE_EXPORT int [ope_encoder_flush_header](#) (OggOpusEnc *enc)

Write out the header now rather than wait for audio to begin.
- OPE_EXPORT int [ope_encoder_ctl](#) (OggOpusEnc *enc, int request,...)

Sets encoder options.
- OPE_EXPORT const char * [ope_strerror](#) (int error)

Converts a libopusenc error code into a human readable string.
- OPE_EXPORT const char * [ope_get_version_string](#) (void)

Returns a string representing the version of libopusenc being used at run time.
- OPE_EXPORT int [ope_get_abi_version](#) (void)

ABI version for this header.

4.5.1 Detailed Description

4.5.2 Function Documentation

4.5.2.1 ope_encoder_create_file()

```
OPE_EXPORT OggOpusEnc* ope_encoder_create_file (
    const char * path,
    OggOpusComments * comments,
    opus_int32 rate,
    int channels,
    int family,
    int * error )
```

Create a new OggOpus file.

Parameters

	<i>path</i>	Path where to create the file
	<i>comments</i>	Comments associated with the stream
	<i>rate</i>	Input sampling rate (48 kHz is faster)
	<i>channels</i>	Number of channels
	<i>family</i>	Mapping family (0 for mono/stereo, 1 for surround)
out	<i>error</i>	Error code (NULL if no error is to be returned)

Returns

Newly-created encoder.

4.5.2.2 ope_encoder_create_callbacks()

```
OPE_EXPORT OggOpusEnc* ope_encoder_create_callbacks (
    const OpusEncCallbacks * callbacks,
    void * user_data,
    OggOpusComments * comments,
    opus_int32 rate,
    int channels,
    int family,
    int * error )
```

Create a new OggOpus stream to be handled using callbacks.

Parameters

	<i>callbacks</i>	Callback functions
	<i>user_data</i>	Pointer to be associated with the stream and passed to the callbacks
	<i>comments</i>	Comments associated with the stream
	<i>rate</i>	Input sampling rate (48 kHz is faster)
	<i>channels</i>	Number of channels
	<i>family</i>	Mapping family (0 for mono/stereo, 1 for surround)
out	<i>error</i>	Error code (NULL if no error is to be returned)

Returns

Newly-created encoder.

4.5.2.3 ope_encoder_create_pull()

```
OPE_EXPORT OggOpusEnc* ope_encoder_create_pull (
    OggOpusComments * comments,
    opus_int32 rate,
    int channels,
    int family,
    int * error )
```

Create a new OggOpus stream to be used along with `ope_encoder_get_page()`.

This is mostly useful for muxing with other streams.

Parameters

	<i>comments</i>	Comments associated with the stream
	<i>rate</i>	Input sampling rate (48 kHz is faster)
	<i>channels</i>	Number of channels
	<i>family</i>	Mapping family (0 for mono/stereo, 1 for surround)
out	<i>error</i>	Error code (NULL if no error is to be returned)

Returns

Newly-created encoder.

4.5.2.4 ope_encoder_deferred_init_with_mapping()

```
OPE_EXPORT int ope_encoder_deferred_init_with_mapping (
    OggOpusEnc * enc,
    int family,
    int streams,
    int coupled_streams,
    const unsigned char * mapping )
```

Deferred initialization of the encoder to force an explicit channel mapping.

This can be used to override the default channel coupling, but using it for regular surround will almost certainly lead to worse quality.

Parameters

<i>in, out</i>	<i>enc</i>	Encoder
	<i>family</i>	Mapping family (0 for mono/stereo, 1 for surround)
	<i>streams</i>	Total number of streams
	<i>coupled_streams</i>	Number of coupled streams
	<i>mapping</i>	Channel mapping

Returns

Error code

4.5.2.5 ope_encoder_write_float()

```
OPE_EXPORT int ope_encoder_write_float (
    OggOpusEnc * enc,
    const float * pcm,
    int samples_per_channel )
```

Add/encode any number of float samples to the stream.

Parameters

<i>in, out</i>	<i>enc</i>	Encoder
	<i>pcm</i>	Floating-point PCM values in the +/-1 range (interleaved if multiple channels)
	<i>samples_per_channel</i>	Number of samples for each channel

Returns

Error code

4.5.2.6 ope_encoder_write()

```
OPE_EXPORT int ope_encoder_write (
    OggOpusEnc * enc,
    const opus_int16 * pcm,
    int samples_per_channel )
```

Add/encode any number of 16-bit linear samples to the stream.

Parameters

<i>in, out</i>	<i>enc</i>	Encoder
	<i>pcm</i>	Linear 16-bit PCM values in the [-32768,32767] range (interleaved if multiple channels)
	<i>samples_per_channel</i>	Number of samples for each channel

Returns

Error code

4.5.2.7 ope_encoder_get_page()

```
OPE_EXPORT int ope_encoder_get_page (
    OggOpusEnc * enc,
    unsigned char ** page,
    opus_int32 * len,
    int flush )
```

Get the next page from the stream (only if using [ope_encoder_create_pull\(\)](#)).

Parameters

<i>in, out</i>	<i>enc</i>	Encoder
<i>out</i>	<i>page</i>	Next available encoded page
<i>out</i>	<i>len</i>	Size (in bytes) of the page returned
	<i>flush</i>	If non-zero, forces a flush of the page (if any data available)

Returns

1 if there is a page available, 0 if not.

4.5.2.8 ope_encoder_drain()

```
OPE_EXPORT int ope_encoder_drain (
    OggOpusEnc * enc )
```

Finalizes the stream, but does not deallocate the object.

Parameters

<code>in, out</code>	<code>enc</code>	Encoder
----------------------	------------------	---------

Returns

Error code

4.5.2.9 ope_encoder_destroy()

```
OPE_EXPORT void ope_encoder_destroy (
    OggOpusEnc * enc )
```

Deallocates the object.

Make sure to `ope_drain()` first.

Parameters

<code>in, out</code>	<code>enc</code>	Encoder
----------------------	------------------	---------

4.5.2.10 ope_encoder_chain_current()

```
OPE_EXPORT int ope_encoder_chain_current (
    OggOpusEnc * enc,
    OggOpusComments * comments )
```

Ends the stream and create a new stream within the same file.

Parameters

<code>in, out</code>	<code>enc</code>	Encoder
	<code>comments</code>	Comments associated with the stream

Returns

Error code

4.5.2.11 ope_encoder_continue_new_file()

```
OPE_EXPORT int ope_encoder_continue_new_file (
    OggOpusEnc * enc,
    const char * path,
    OggOpusComments * comments )
```

Ends the stream and create a new file.

Parameters

<code>in, out</code>	<code>enc</code>	Encoder
	<code>path</code>	Path where to write the new file
	<code>comments</code>	Comments associated with the stream

Returns

Error code

4.5.2.12 ope_encoder_continue_new_callbacks()

```
OPE_EXPORT int ope_encoder_continue_new_callbacks (
    OggOpusEnc * enc,
    void * user_data,
    OggOpusComments * comments )
```

Ends the stream and create a new file (callback-based).

Parameters

<code>in, out</code>	<code>enc</code>	Encoder
	<code>user_data</code>	Pointer to be associated with the new stream and passed to the callbacks
	<code>comments</code>	Comments associated with the stream

Returns

Error code

4.5.2.13 ope_encoder_flush_header()

```
OPE_EXPORT int ope_encoder_flush_header (
    OggOpusEnc * enc )
```

Write out the header now rather than wait for audio to begin.

Parameters

<i>in, out</i>	<i>enc</i>	Encoder
----------------	------------	---------

Returns

Error code

4.5.2.14 ope_encoder_ctl()

```
OPE_EXPORT int ope_encoder_ctl (
    OggOpusEnc * enc,
    int request,
    ... )
```

Sets encoder options.

Parameters

<i>in, out</i>	<i>enc</i>	Encoder
	<i>request</i>	Use a request macro

Returns

Error code

4.5.2.15 ope_strerror()

```
OPE_EXPORT const char* ope_strerror (
    int error )
```

Converts a libopusenc error code into a human readable string.

Parameters

<i>error</i>	Error number
--------------	--------------

Returns

Error string

4.5.2.16 ope_get_version_string()

```
OPE_EXPORT const char* ope_get_version_string (  
    void )
```

Returns a string representing the version of libopusenc being used at run time.

Returns

A string describing the version of this library

4.5.2.17 ope_get_abi_version()

```
OPE_EXPORT int ope_get_abi_version (  
    void )
```

ABI version for this header.

Can be used to check for features at run time.

Returns

An integer representing the ABI version

Chapter 5

Data Structure Documentation

5.1 OpusEncCallbacks Struct Reference

Callback functions for accessing the stream.

```
#include <opusenc.h>
```

Data Fields

- [ope_write_func](#) write
Callback for writing to the stream.
- [ope_close_func](#) close
Callback for closing the stream.

5.1.1 Detailed Description

Callback functions for accessing the stream.

The documentation for this struct was generated from the following file:

- opusenc.h

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