# BASS\_Encode\_OPUS\_GetVersion

Retrieves the version of BASSenc\_OPUS that is loaded.

DWORD BASS\_Encode\_OPUS\_GetVersion();

## **Return value**

The BASSenc\_OPUS version. For example, 0x02040103 (hex), would be version 2.4.1.3

# $BASS\_Encode\_OPUS\_Start$

Sets up an Opus encoder on a channel.

```
HENCODE BASS_Encode_OPUS_Start(
    DWORD handle,
    char *options,
    DWORD flags,
    ENCODEPROC *proc,
    void *user
);
```

#### **Parameters**

handle The channel handle... a HSTREAM, HMUSIC, or HRECORD.

Encoder options... NULL = use defaults. The following OPUSENC options

style options are supported: --bitrate, --vbr, --cvbr, --hard-cbr, --comp /

--complexity, --framesize, --expect-loss, --max-delay, --serial, --

comment, --artist, --title, --album, --date, --genre, --padding. Anything

else that is included will be ignored. See the OPUSENC

<u>documentation</u> for details on the aforementioned options and defaults.

flags A combination of these flags.

Queue data to feed the

encoder asynchronously. This prevents the data source (DSP

system or

BASS Encode Write call)

getting blocked by the

encoder, but if data is queud more quickly than the encoder can process it, that could result

in lost data.

BASS ENCODE LIMIT Limit the encoding rate to

real-time speed, by

introducing a delay when the rate is too high. With BASS 2.4.6 or above, this flag is

ignored when the encoder is fed in a playback buffer update cycle (including

**BASS** Update and

BASS ChannelUpdate calls),

to avoid possibly causing playback buffer underruns.

Except for in those instances,

this flag is applied

automatically when the

encoder is feeding a Shoutcast

BASS ENCODE QUEUE

or Icecast server.

BASS\_ENCODE\_CAST\_NOLIMIT Don't limit the encoding rate

to real-time speed when

feeding a Shoutcast or Icecast server. This flag overrides the BASS\_ENCODE\_LIMIT flag.

BASS\_ENCODE\_PAUSE Start the encoder in a paused

state.

BASS\_ENCODE\_AUTOFREE Automatically free the

encoder when the source

channel is freed. If queuing is

enabled, any remaining

queued data will be sent to the

encoder before it is freed.

BASS\_UNICODE options is in UTF-16 form.

Otherwise it should be UTF-8.

proc Optional callback function to receive the encoded data... NULL = no

callback.

user User instance data to pass to the callback function.

## Return value

The encoder handle is returned if the encoder is successfully started, else 0 is returned. Use <u>BASS\_ErrorGetCode</u> to get the error code.

### **Error codes**

BASS\_ERROR\_HANDLE handle is not valid.

BASS\_ERROR\_FORMAT The channel's sample format is not supported

by the encoder.

BASS\_ERROR\_UNKNOWN Some other mystery problem!

#### Remarks

<u>BASS\_Encode\_StartUser</u> is used internally to apply the encoder to the source channel, so the remarks in its documentation also apply to this function.

Tags/comments should be in UTF-8 form. This function will take care of that when the BASS\_UNICODE flag is used, but otherwise you will need to make sure that any tags included in *options* are UTF-8 (not ISO-8859-1/etc).

## **Platform-specific**

On Windows and Linux, an SSE supporting CPU is required for sample rates other than 48000/24000/16000/12000/8000 Hz.

#### See also

BASS Encode OPUS StartFile

BASS Encode CastInit, BASS Encode IsActive, BASS Encode ServerInit,

BASS Encode SetNotify, BASS Encode SetPaused, BASS Encode Stop,

BASS\_Encode\_Write, ENCODEPROC callback,

BASS CONFIG ENCODE PRIORITY

## BASS\_Encode\_OPUS\_StartFile

Sets up an Opus encoder on a channel, writing the output to a file.

```
HENCODE BASS_Encode_OPUS_StartFile(
    DWORD handle,
    char *options,
    DWORD flags,
    char *filename
);
```

#### **Parameters**

handle The channel handle... a HSTREAM, HMUSIC, or HRECORD.

options Encoder options... NULL = use defaults. The following OPUSENC

style options are supported: --bitrate, --vbr, --cvbr, --hard-cbr, --comp

/ --complexity, --framesize, --expect-loss, --max-delay, --serial, --

comment, --artist, --title, --album, --date, --genre, --padding.

Anything else that is included will be ignored. See the OPUSENC

documentation for details on the aforementioned options and

defaults.

flags A combination of these flags.

BASS\_ENCODE\_QUEUE Queue data to feed the

encoder asynchronously.

This prevents the data source

(DSP system or

BASS\_Encode\_Write call)

getting blocked by the

encoder, but if data is queud

more quickly than the

encoder can process it, that

could result in lost data.

BASS\_ENCODE\_LIMIT Limit the encoding rate to

real-time speed, by

introducing a delay when the rate is too high. With BASS 2.4.6 or above, this flag is ignored when the encoder is

fed in a playback buffer update cycle (including

BASS\_Update and

BASS\_ChannelUpdate

calls), to avoid possibly causing playback buffer underruns. Except for in those instances, this flag is

applied automatically when

the encoder is feeding a Shoutcast or Icecast server.

BASS\_ENCODE\_CAST\_NOLIMIT Don't limit the encoding rate

to real-time speed when feeding a Shoutcast or Icecast server. This flag

overrides the

BASS\_ENCODE\_LIMIT

flag.

BASS\_ENCODE\_PAUSE Start the encoder in a paused

state.

BASS\_ENCODE\_AUTOFREE Automatically free the

encoder when the source channel is freed. If queuing is enabled, any remaining queued data will be sent to the encoder before it is freed.

BASS\_UNICODE options and filename are in

UTF-16 form. Otherwise *options* should be UTF-8 on all platforms, and *filename* should be ANSI on Windows

and UTF-8 on other

platforms.

filename Output filename... NULL = no output file.

## Return value

The encoder handle is returned if the encoder is successfully started, else 0 is returned. Use <u>BASS\_ErrorGetCode</u> to get the error code.

## **Error codes**

BASS\_ERROR\_HANDLE handle is not valid.

BASS\_ERROR\_FORMAT The channel's sample format is not supported

by the encoder.

BASS\_ERROR\_CREATE The file could not be created.

BASS\_ERROR\_UNKNOWN Some other mystery problem!

#### Remarks

<u>BASS\_Encode\_StartUser</u> is used internally to apply the encoder to the source channel, so the remarks in its documentation also apply to this function.

Tags/comments should be in UTF-8 form. This function will take care of that when the BASS\_UNICODE flag is used, but otherwise you will need to make sure that any tags included in *options* are UTF-8 (not ISO-8859-1/etc).

## **Platform-specific**

On Windows and Linux, an SSE supporting CPU is required for sample rates other than 48000/24000/16000/12000/8000 Hz.

### See also

BASS Encode OPUS Start

BASS\_Encode\_IsActive, BASS\_Encode\_SetNotify, BASS\_Encode\_SetPaused,
BASS\_Encode\_Stop, BASS\_Encode\_Write,
BASS\_CONFIG\_ENCODE\_PRIORITY