Package 'openmpt'

January 11, 2025

```
Title Open 'ModPlug' Tracker Port
Version 0.1.4
Description Tracker music uses audio samples and
      pattern tables to organise musical compositions.
      Such music is stored in module files. This package
      reads, renders and plays module files using
      the 'libopenmpt' library <a href="https://lib.openmpt.org/">https://lib.openmpt.org/>.
License GPL (>= 3)
Encoding UTF-8
RoxygenNote 7.2.3
Imports av
Suggests httr2, kableExtra, knitr, rmarkdown, testthat (>= 3.0.0),
      xml2
LinkingTo cpp11
SystemRequirements openmpt: libopenmpt-devel (rpm) or libopenmpt-dev
      (deb), portaudio-devel (rpm) or portaudio19-dev (deb).
URL https://pepijn-devries.github.io/openmpt/,
      https://github.com/pepijn-devries/openmpt,
      https://lib.openmpt.org/
BugReports https://github.com/pepijn-devries/openmpt/issues
Config/testthat/edition 3
VignetteBuilder knitr
NeedsCompilation yes
Author Pepijn de Vries [aut, cre] (<a href="https://orcid.org/0000-0002-7961-6646">https://orcid.org/0000-0002-7961-6646</a>),
      Jeroen Ooms [ctb] (<a href="https://orcid.org/0000-0002-4035-0289">https://orcid.org/0000-0002-4035-0289</a>),
      Jester [cph, dtc] (Copyright holder of cyberrid.mod),
      OpenMPT Project Developers and Contributors [cph]
Maintainer Pepijn de Vries <pepijn.devries@outlook.com>
Repository CRAN
Date/Publication 2025-01-11 16:00:02 UTC
```

2 control_keys

Contents

	control_keys	2
	convert_mod	3
	demo_mod	4
	get_current_channel_vu_left	5
	get_duration_seconds	6
	get_instrument_names	7
	get_metadata	
	get_num_instruments	8
	get_order_pattern	9
	has_audio_device	
	modarchive_info	
	modland_search	
	openmpt_info	
	pattern	
	pitch-tempo	
	play	
	position_seconds	
	print.openmpt	
	read_mod	
	render_param	
	repeat_count	
	subsong	
	volume-control	
	volume control	20
Index		25

control_keys

Get or set OpenMPT module controls

Description

Each individual module has its own set of control parameters. Use these functions to obtain or set the state of these parameters.

```
control_keys(mod, ...)
control(mod, key, ...)
control(mod, key, ...) <- value</pre>
```

convert_mod 3

Arguments

mod A tracker module object of class openmpt.

Ignored

key A character string representing a specific control you whish to get or set. Use control_keys() to list all available keys.

value A replacement value for the specified control key. Check the libopenmpt documentation for the appropriate replacement types and values for each of the key values.

Value

control_keys() returns a vector of strings containing all available control keys for mod. control() returns the value for the specified key'. In case of an assign operator (<-) an updated version of mod' is returned, where the control key has been set if successful.

Examples

```
mod <- demo_mod()
control_keys(mod)

## get a specific control value
control(mod, "play.at_end")

## set a number of control values
control(mod, "play.at_end") <- "stop"
control(mod, "play.pitch_factor") <- 2
control(mod, "load.skip_plugins") <- TRUE
control(mod, "dither") <- 2L

## Show all control settings
all_keys <- control_keys(mod)
structure(
  lapply(all_keys, control, mod = mod),
  names = all_keys
)</pre>
```

convert_mod

Convert a ModPlug Tracker module to an audio file

Description

Renders ModPlug Tracker music to an audio file and encodes it to a desired output format (e.g. .mp3, .ogg, etc) using av::av_audio_convert().

demo_mod

Usage

```
convert_mod(
  mod,
  file,
  start_order = 0L,
  start_row = 0L,
  sample_rate = 44100L,
  duration = NA_real_,
  verbose = FALSE,
  ...
)
```

Arguments

A tracker module object of class openmpt mod file Output audio file where the rendered audio is stored. The file name extension is used to determine the type of encoding to be applied. Starting position (integer index starting at 0) in the pattern sequence table. start_order start_row Starting row (integer index starting at 0) of the pattern table. sample_rate Output sample rate in Hz (samples per seconds). duration Duration in seconds. Rendered sample will not be longer than this duration. if set to NA_real_ it is ignored and the module keeps rendering conform the specified control(). verbose Passed on to av::av_audio_convert(). Ignored . . .

Value

Returns NULL invisibly

Examples

```
mod <- demo_mod()

destination <- tempfile(fileext = ".mp3")

convert_mod(mod, destination, duration = 2)</pre>
```

demo_mod

Loads demo module included with the package

Description

Reads the file cyberrid.mod. It is a ProTracker file create by Jester. It is redistributed under the Attribution Non-commercial Share Alike license. The music was part of an Amiga computer demo named 'Extension' and was originally released in 1993.

```
get_current_channel_vu_left
```

Usage

```
demo_mod()
```

Value

Returns the demo module tracker object of class openmpt

Examples

```
mod <- demo_mod()
```

```
get_current_channel_vu_left
```

Get the state of specific aspects of an openmpt class object

Description

While playing with play() or rendering with convert_mod(), the state of the module can change continuously (volume, speed, order index, etc.). These functions return the current state of an openmpt class object.

```
get_current_channel_vu_left(mod, channel, ...)
get_current_channel_vu_mono(mod, channel, ...)
get_current_channel_vu_rear_left(mod, channel, ...)
get_current_channel_vu_rear_right(mod, channel, ...)
get_current_channel_vu_right(mod, channel, ...)
get_current_estimated_bpm(mod, ...)
get_current_order(mod, ...)
get_current_pattern(mod, ...)
get_current_playing_channels(mod, ...)
get_current_row(mod, ...)
get_current_speed(mod, ...)
get_current_speed(mod, ...)
get_current_tempo(mod, ...)
```

6 get_duration_seconds

Arguments

mod A tracker module object of class openmpt.

channel An integer channel index (starting at 0), for which to get the current state.

... Ignored

Value

Return numeric or integer values of the requested state. Function names are pretty self-explanatory. Note that tempo and speed values are tracker dependent, their meaning depend on the originating tracker.

Examples

```
mod <- demo_mod()

get_current_channel_vu_left(mod, 0L)
get_current_channel_vu_mono(mod, 0L)
get_current_channel_vu_rear_left(mod, 0L)
get_current_channel_vu_rear_right(mod, 0L)
get_current_channel_vu_right(mod, 0L)
get_current_estimated_bpm(mod)
get_current_order(mod)
get_current_pattern(mod)
get_current_playing_channels(mod)
get_current_row(mod)
get_current_speed(mod)
get_current_tempo(mod)</pre>
```

get_duration_seconds Get ModPlug Tracker module duration

Description

Get the duration of the song from a openmpt class module object in seconds.

Usage

```
get_duration_seconds(mod, ...)
```

Arguments

mod A tracker module object of class openmpt.
... Ignored

Value

Returns a numeric value indicating the song duration in seconds.

get_instrument_names 7

Examples

```
mod <- demo_mod()
get_duration_seconds(mod)</pre>
```

get_instrument_names Get openmpt module element names

Description

Get names of elements in an openmpt class object. Use get_metadata() to get a module's name.

Usage

```
get_instrument_names(mod, ...)
get_sample_names(mod, ...)
get_channel_names(mod, ...)
get_pattern_names(mod, ...)
get_order_names(mod, ...)
get_subsong_names(mod, ...)
```

Arguments

mod A tracker module object of class openmpt.
... Ignored

Value

A vector of strings with names

Examples

```
mod <- demo_mod()
get_subsong_names(mod)
get_channel_names(mod)
get_pattern_names(mod)
get_order_names(mod)
get_instrument_names(mod)
get_sample_names(mod)[1:8]</pre>
```

8 get_num_instruments

get_metadata

Get ModPlug Tracker module meta data

Description

Get meta data of a tracker module such as its "type", "title" and "tracker". Use get_metadata_keys() to get the available keys for a module object.

Usage

```
get_metadata(mod, key = "title", ...)
get_metadata_keys(mod, ...)
```

Arguments

mod A tracker module object of class openmpt.

key A key as listed by get_metadata_keys().

... Ignored

Value

A list of available keys in case of get_metadata_keys(), the requested information in case of get_metadata().

Examples

```
mod <- demo_mod()
get_metadata_keys(mod)
get_metadata(mod, "tracker")</pre>
```

get_num_instruments

Get element counts from an openmpt module

Description

Functions that count specific elements in openmpt class objects and returns the resulting number.

get_order_pattern 9

Usage

```
get_num_instruments(mod, ...)
get_num_samples(mod, ...)
get_num_channels(mod, ...)
get_num_orders(mod, ...)
get_num_patterns(mod, ...)
get_num_subsongs(mod, ...)
get_pattern_num_rows(mod, pattern)
```

Arguments

mod A tracker module object of class openmpt.

... Ignored

pattern An integer pattern index (starting at 0) for which to get count details.

Value

Returns an integer count of the requested information.

Examples

```
mod <- demo_mod()
get_num_instruments(mod)
get_num_samples(mod)
get_num_channels(mod)
get_num_orders(mod)
get_num_patterns(mod)
get_num_subsongs(mod)
get_pattern_num_rows(mod, 0L)</pre>
```

get_order_pattern

Get the pattern index of an openmpt module at a specific order index

Description

A module contains a sequence table describing the order in which to play patterns. This function returns the index of the patter at specific position in the sequence table.

```
get_order_pattern(mod, order, ...)
```

10 modarchive_info

Arguments

mod A tracker module object of class openmpt.

order Index of the position in the pattern sequence table (starts at \emptyset).

... Ignored

Value

Returns the integer index (starting at 0) of the pattern at the indicated order position.

Examples

```
mod <- demo_mod()
get_order_pattern(mod, 3L)</pre>
```

has_audio_device

Test if there is an audio device

Description

Tests if an audio device is present on the system.

Usage

```
has_audio_device()
```

Value

Returns a logical value.

modarchive_info

Functions to interact with modArchive

Description

ModArchive is one of the largest online archives of module files. These functions will assist in accessing this archive. For mor information see vignette("modarchive").

modarchive_info 11

```
modarchive_info(mod_id, api = modarchive_api())
modarchive_search_mod(
  text,
 where = c("filename_or_songtitle", "filename_and_songtitle", "filename", "songtitle",
    "module_instruments", "module_comments"),
 format = c("unset", "669", "AHX", "DMF", "HVL", "IT", "MED", "MO3", "MOD", "MTM",
    "OCT", "OKT", "S3M", "STM", "XM"),
  size,
  channels,
  page,
  api = modarchive_api()
)
modarchive_search_genre(
  genre = c("unset", modarchive_genres()),
 format = c("unset", "669", "AHX", "DMF", "HVL", "IT", "MED", "MO3", "MOD", "MTM",
    "OCT", "OKT", "S3M", "STM", "XM"),
  size,
  channels,
 page,
  api = modarchive_api()
)
modarchive_search_hash(text, api = modarchive_api())
modarchive_random(
  genre = modarchive_genres(),
 format = c("unset", "669", "AHX", "DMF", "HVL", "IT", "MED", "MO3", "MOD", "MTM",
    "OCT", "OKT", "S3M", "STM", "XM"),
  size.
  page,
  api = modarchive_api()
)
modarchive_search_artist(text, page, api = modarchive_api())
modarchive_view_by(
  text,
  by = c("view_by_list", "view_by_rating_comments", "view_by_rating_reviews",
    "view_modules_by_artistid", "view_modules_by_guessed_artist"),
 format = c("unset", "669", "AHX", "DMF", "HVL", "IT", "MED", "MO3", "MOD", "MTM",
    "OCT", "OKT", "S3M", "STM", "XM"),
  size,
 page,
  api = modarchive_api()
)
```

12 modarchive_info

```
modarchive_download(mod_id, read_fun = read_mod, ...)
modarchive_api()
modarchive_requests(api = modarchive_api())
modarchive_genres()
```

Arguments

mod_id	An integer code used as module identifier in the ModArchive database. A mod_id can be obtained by performing a search with for instance modarchive_search_mod().
api	Most ModArchive functions require a personal secret API key. This key can be obtained from the ModArchive forum. See vignette("modarchive") for more details.
text	Text (character) used for searching. In some functions the asterisk symbol * can be used as a wildcard in the search.
where	A character string specifying where to search. See the 'usage' section for allowed values.
format	A character string specifying to which file format the search should be limited. See 'usage' section for allowed values.
size	A vector of two integer values, specifying a filter to apply to the search results. It filters the results to the file size range specified here in kB. When omitted, all file sizes are returned.
channels	A vector of two integer values, specifying a filter to apply to the search results. It filters the results to the specified range of number of channels in the module. When omitted, modules with any number of channels are returned.
page	Many of the ModArchive functions return paginated tables. When this argument is omitted, the first page is returned. Use an integer value to return a specific page. The total number of pages of a search or view is returned as an attribute to the returned data.frame.
genre	A genre of music to limit your search to. See modarchive_genres() for a list of available values.
by	A character string specifying which aspect to view the results by. See the 'usage' section for allowed values.
read_fun	Function that accepts an URL first argument. By default it is read_mod() and is used to read the file. You can replace it with other functions such as ProTrackR2::pt2_read_mod().
	Arguments passed on to read_fun

Value

Most functions documented here return a data. frame with information about one or more modules, or an artist. NULL is returned in case a search has no results.

modland_search 13

modarchive_download() returns the result of calling read_fun on the requested module.

modarchive_requests() returns the number of requests that you made this month using the API key, and how many are available.

modarchive_api() returns your API key, when you have set it as environmental variable ("MODARCHIVE_API") or session option ("modarchive_api"). When it is not set it will return "".

modarchive_genres() returns a vector of character strings, listing the music genres specified by ModArchive.

See Also

```
modland_search()
```

Examples

```
elekfunk <- modarchive_download(41529)</pre>
## Check how many API requests are left this month
reqs <- modarchive_requests()</pre>
if (length(reqs) > 0) {
  regs <- 1 - regs$current / regs$maximum</pre>
} else {
  reqs <- 0
## The examples below will only work with a valid
## API key for modArchive and if more than 25%
## of the monthly requests are left:
if (modarchive_api() != "" && regs > 0.25) {
  mod_info <- modarchive_info(41529)</pre>
  if (nrow(mod_info) > 0) mod_info$url[[1]]
  info_search <- modarchive_search_mod("*intro.mod",</pre>
                                          size = c(8L, 10L),
                                          channels = c(1L, 4L))
  info_genre <- modarchive_search_genre("Chiptune", "IT")</pre>
  info_hash <- modarchive_search_hash("8f80bcab909f700619025bd7f2975749")</pre>
  info_artist <- modarchive_search_artist("89200")</pre>
  info_list <- modarchive_view_by("A", "view_by_list", "XM",</pre>
                                      page = 2)
  info_random <- modarchive_random("Comedy")</pre>
}
```

modland_search

Functions to interact with modLand

Description

ModLand is an online archive containing over 400,000 module files. These functions allow you to search in and download from this archive.

14 modland_search

Usage

Arguments

text	Search text, to look for on modland.
	Arguments passed on to read_fun
format	A single length character vector, indicating the tracker file format. Can be obtained from a $modland_search()$.
author	A single length character vector, indicating the module author name. Can be obtained from a $modland_search()$.
title	A single length character vector, indicating the module title. Can be obtained from a $modland_search()$.
mirror	A single length character vector. Should contain one of the mirrors listed in the 'usage' section. Select a mirror site from which the module file needs to be downloaded.
read_fun	Function that accepts an URL first argument. By default it is <pre>read_mod()</pre> and is used to read the file. You can replace it with other functions such as <pre>ProTrackR2::pt2_read_mod()</pre> .

Value

In case of modland_search() a data.frame with search results are returned (or NULL if there are no results).

modland_download() will return the result of the function specified by read_fun. By default it will return an openmpt class object.

See Also

```
modarchive_search_mod()
```

Examples

```
search_result <- modland_search("elekfunk mod")
## The URL in the search results will download a rendered
## ogg file. If you want to download te original mod file,</pre>
```

openmpt_info 15

 $openmpt_info$

Retrieve information about the OpenMPT library

Description

A wrapper for the get function in libopenmpt (see API documentation)

Usage

```
openmpt_info(key = "library_version", ...)
```

Arguments

key A key character string indicating which information to retrieve. can be "library_version",
"library_features" and many others. See API documentation) for all possible values.

... Ignored

Value

Returns a character string with the requested information.

Examples

```
openmpt_info("library_version")
openmpt_info("library_features")
openmpt_info("url")
```

pattern

Get a specific openmpt pattern table or its cells

Description

Collects a specific pattern table from a tracker module and presents it as a matrix of formatted character strings in case of pattern(). The other functions return a single string for a specific cell inside the pattern table.

16 pitch-tempo

Usage

```
pattern(mod, pattern = 0L, width = 0L, pad = TRUE, ...)
format_pattern_row_channel(mod, pattern, row, channel, width, pad, ...)
format_pattern_row_channel_command(mod, pattern, row, channel, command, ...)
highlight_pattern_row_channel(mod, pattern, row, channel, width, pad, ...)
highlight_pattern_row_channel_command(mod, pattern, row, channel, command, ...)
```

Arguments

mod	A tracker module object of class openmpt.
pattern	The pattern index (starting at 0) of the pattern to get.
width	The maximum number of characters the string should contain. 0 means no limit.
pad	If TRUE, the string will be resized to the exact length provided in the width parameter.
	Ignored
row	A row index (starting at 0) for the row inside the pattern table.
channel	a channel (i.e., column) index (starting at 0) inside the pattern table.
command	One of "note", "instrument", "volumeffect", "effect", "volume", or "parameter".

Value

A matrix of pattern cells formatted as character strings in case of pattern(). Each column represents. All other methods return a single string for a specific cell. an audio channel.

Examples

```
mod <- demo_mod()
pattern(mod)
format_pattern_row_channel(mod, 0L, 1L, 2L, 0L, TRUE)
format_pattern_row_channel_command(mod, 0L, 1L, 2L, "parameter")
highlight_pattern_row_channel(mod, 0L, 1L, 2L, 0L, TRUE)
highlight_pattern_row_channel_command(mod, 0L, 1L, 2L, "note")</pre>
```

pitch-tempo

Control the pitch and tempo of a module

Description

Functions to control the pitch and tempo of a module.

play 17

Usage

```
pitch_factor(mod, ...)
pitch_factor(mod, ...) <- value
tempo_factor(mod, ...)
tempo_factor(mod, ...) <- value</pre>
```

Arguments

mod A tracker module object of class openmpt.

... Ignored

value Replacement value. A numeric factor with which to adjust the tempo or pitch

of a module

Value

Returns current factor, or the updated object in case of an assign operation (<-).

Examples

```
mod <- demo_mod()
## Increase the module pitch with a factor 2
pitch_factor(mod) <- 2
pitch_factor(mod)
## Increase the module tempo with a factor 2
tempo_factor(mod) <- 2
tempo_factor(mod)</pre>
```

play

Play a ModPlug Tracker module

Description

Renders a module tracker object of class openmpt and plays it instantaneously.

```
play(mod, sample_rate = 44100L, progress = "vu", duration = NA_real_, ...)
```

position_seconds

Arguments

mod A tracker module object of class openmpt.

sample_rate Output sample rate when playing the module.

progress Progress printed to console while playing. Should be one of "vu" (indicative volume meter), "time" (shows timer) or "none" (don't show progress). If your audio is stuttering you might want to set this to "none" to save processing speed.

duration Duration in seconds. Play routine will not last longer than this duration. if set to NA_real_ it is ignored and the module keeps rendering conform the specified control().

... Ignored

Value

Returns NULL invisibly.

Examples

```
if (interactive() && has_audio_device()) {
  mod <- demo_mod()
  play(mod)
}</pre>
```

position_seconds

Get and set ModPlug Tracker module position

Description

Get or set the position of the music player. rewind() moves the position to the start of the song.

Usage

```
position_seconds(mod, ...)
position_seconds(mod, ...) <- value
rewind(mod, ...)
set_position_order_row(mod, order, row, ...)</pre>
```

Arguments

mod	A tracker module object of class openmpt.
	Ignored
value	Position in seconds to move the player to. The value is rounded to its nearest order and row position.
order	Index of the position in the pattern sequence table (starts at \emptyset).
row	Index of the row in the current pattern table (starts at 0).

print.openmpt 19

Value

Returns NULL invisibly, or the updated object in case of the assign operator (<-).

Examples

```
mod <- demo_mod()
position_seconds(mod)
position_seconds(mod) <- 10.2
set_position_order_row(mod, 1, 4)
rewind(mod)</pre>
```

print.openmpt

Implementation of basic S3 generics

Description

Implementation of basic S3 generics such as print().

Usage

```
## S3 method for class 'openmpt'
print(x, ...)
## S3 method for class 'openmpt'
format(x, ...)
```

Arguments

x Object to apply the method to.... Ignored.

Value

In case of print and format a formatted string with basic information about the module is returned.

read_mod

Read Open ModPlug module

Description

Read any of the music tracker module file formats supported by libopenmpt: https://wiki.openmpt.org/Manual:_Module_formats.

```
read_mod(file, ...)
```

20 render_param

Arguments

file File path or URL to read the file from. Binary connections are also supported.
... Ignored

Value

A modplug class object. It is an external pointer, pointing to the module object in memory. It can be used for rendering audio.

Examples

```
## You can read from files
mod1 <- read_mod(system.file("cyberrid", "cyberrid.mod", package = "openmpt"))
## but also URLs
mod2 <- read_mod("https://api.modarchive.org/downloads.php?moduleid=41529#elektric_funk.mod")</pre>
```

render_param

Get or set render parameters for a specific module

Description

Each individual module has its own set of render parameters. Use these functions to obtain or set the state of these parameters.

Usage

```
render_param(mod, key, ...)
render_param(mod, key, ...) <- value</pre>
```

Arguments

mod

A tracker module object of class openmpt.

key

One of "MASTERGAIN", "STEREOSEPARATION", "INTERPOLATION", or "VOLUMERAMPING". details copied from libopenmpt documentation

Master Gain The related value represents a relative gain in milliBel. The default value is 0. The supported value range is unlimited.

Stereo Separation The related value represents the stereo separation generated by the libopenmpt mixer in percent. The default value is 100. The supported value range is from 0 up to 200.

Interpolation Filter The related value represents the interpolation filter length used by the libopenmpt mixer. The default value is 0, which indicates a recommended default value. The supported value range is from 0 up to infinity. Values greater than the implementation limit are clamped to the maximum supported value. Currently supported values:

repeat_count 21

- 0: internal default
- 1: no interpolation (zero order hold)
- 2: linear interpolation
- 4: cubic interpolation
- 8: windowed sinc with 8 taps

Volume Ramping Strength The related value represents the amount of volume ramping done by the libopenmpt mixer. The default value is -1, which indicates a recommended default value. The meaningful value range is from -1 up to 10. A value of 0 completely disables volume ramping. This might cause clicks in sound output. Higher values imply slower/softer volume ramps.

... Ignored.

value An integer replacement value for the render parameter selected with key

Value

Returns the current integer render parameter for the specified key and mod. In case of an assign operator (<-) mod with an updated set of render parameters is returned.

Examples

```
mod <- demo_mod()

render_param(mod, "STEREOSEPARATION") <- 50
render_param(mod, "STEREOSEPARATION")
render_param(mod, "MASTERGAIN")
render_param(mod, "INTERPOLATION")
render_param(mod, "VOLUMERAMPING")</pre>
```

repeat_count

Get or set the repeat count for an openmpt module

Description

Tracker music can be composed such that it is intended to play in a continuous loop. With the repeat count you can affect the number of times a module is repeated when playing with play() or rendered with convert_mod().

```
repeat_count(mod, ...)
repeat_count(mod, ...) <- value</pre>
```

22 subsong

Arguments

. . .

 $\mbox{mod} \qquad \qquad \mbox{A tracker module object of class openmpt.}$

Ignored

value An integer value to assign to the repeat count.

Value

Returns the integer repeat count of an openmpt object. In case of an assign operator (<-) an updated mod is returned with the new repeat count.

Examples

```
mod <- demo_mod()
repeat_count(mod) <- 2
repeat_count(mod)</pre>
```

subsong

Get or set the current subsong in an openmpt module

Description

Some openmpt modules may contain multiple subsongs. Use these functions to get the current subsong index, or select a different one.

Usage

```
subsong(mod, ...)
subsong(mod, ...) <- value</pre>
```

Arguments

mod A tracker module object of class openmpt.

... Ignored

value An integer index of the subsong to select.

Value

Returns the integer index of the currently selected subsong. In case of the assign operator (<-) it returns a version of mod with an update selection for the subsong

Examples

```
mod <- demo_mod()
subsong(mod)
## a value of -1 plays all subsongs consecutively
subsong(mod) <- -1</pre>
```

volume-control 23

volume-control

Control the volume of a module

Description

Functions to control the global volume of a module, or that of specific channels in the module.

Usage

```
channel_mute_status(mod, channel, ...)
channel_mute_status(mod, channel, ...) <- value
channel_volume(mod, channel, ...)
channel_volume(mod, channel, ...) <- value
global_volume(mod, ...)
global_volume(mod, ...) <- value</pre>
```

Arguments

mod	A tracker module object of class openmpt.	
channel	Channel index (integer starting at \emptyset) for which to request or control the volume.	
	Ignored	
value	Replacement value. In case of 'status' functions a logical value, in case of 'volume' functions a numeric value.	

Value

Returns the volume (status), or the updated object in case of an assign operation (<-).

Examples

```
mod <- demo_mod()
channel_mute_status(mod, 0L)
## Mute the first channel in the module
channel_mute_status(mod, 0L) <- TRUE
## Second channel volume at 50%
channel_volume(mod, 1L) <- 0.5
channel_volume(mod, 1L)
## global volume at 90%</pre>
```

volume-control

global_volume(mod) <- 0.9
global_volume(mod)</pre>

Index

```
av::av_audio_convert(), 3, 4
                                               get_current_order
                                                        (get_current_channel_vu_left),
channel_mute_status (volume-control), 23
                                                get_current_pattern
channel_mute_status<- (volume-control),</pre>
                                                        (get_current_channel_vu_left),
channel_volume (volume-control), 23
                                               get_current_playing_channels
channel_volume<- (volume-control), 23</pre>
                                                        (get_current_channel_vu_left),
control (control_keys), 2
control(), 4, 18
                                               get_current_row
control<- (control_keys), 2</pre>
                                                        (get_current_channel_vu_left),
control_keys, 2
convert_mod, 3
                                               get_current_speed
convert_mod(), 5, 21
                                                        (get_current_channel_vu_left),
demo_mod, 4
                                               get_current_tempo
                                                        (get_current_channel_vu_left),
format.openmpt (print.openmpt), 19
format_pattern_row_channel (pattern), 15
                                               get_duration_seconds, 6
format_pattern_row_channel_command
                                               get_instrument_names, 7
        (pattern), 15
                                               get_metadata, 8
                                               get_metadata(), 7, 8
get_channel_names
                                               get_metadata_keys (get_metadata), 8
        (get_instrument_names), 7
                                               get_metadata_keys(), 8
get_current_channel_vu_left,5
                                               get_num_channels(get_num_instruments),
get_current_channel_vu_mono
        (get_current_channel_vu_left),
                                               get_num_instruments, 8
                                               get_num_orders (get_num_instruments), 8
get_current_channel_vu_rear_left
                                               get_num_patterns (get_num_instruments),
        (get_current_channel_vu_left),
                                               get_num_samples (get_num_instruments), 8
get_current_channel_vu_rear_right
                                               get_num_subsongs (get_num_instruments),
        (get_current_channel_vu_left),
                                               get_order_names (get_instrument_names),
get_current_channel_vu_right
        (get_current_channel_vu_left),
                                               get_order_pattern, 9
                                               get_pattern_names
get_current_estimated_bpm
        (get_current_channel_vu_left),
                                                        (get_instrument_names), 7
                                               get_pattern_num_rows
```

26 INDEX

<pre>(get_num_instruments), 8 get_sample_names</pre>	<pre>read_mod, 19 read_mod(), 12, 14 render_param, 20 render_param<- (render_param), 20 repeat_count, 21 repeat_count<- (repeat_count), 21 rewind (position_seconds), 18</pre>
has_audio_device, 10 highlight_pattern_row_channel	<pre>set_position_order_row</pre>
openmpt_info, 15 pattern, 15 pitch-tempo, 16 pitch_factor (pitch-tempo), 16 pitch_factor<- (pitch-tempo), 16 polay, 17 polay(), 5, 21 position_seconds, 18 position_seconds<- (position_seconds),	