Audacious - OLD, PLEASE USE GITHUB DISCUSSIONS/ISSUES - Bug #1159

ffaudio fails to compile with FFmpeg 5.0

February 27, 2022 20:33 - Thomas Lange

Status:	Closed		**Start date:**	February 27, 2022
Priority:	Minor		**Due date:**	
Assignee:			**% Done:**	100%
Category:	plugins/ffaudio		**Estimated time:**	0.00 hour
Target version:	4.2			
Affects version:	4.1, 4.2			

Description

With FFmpeg 5.0 (shipped meanwhile by Arch Linux), some APIs return const pointers now.
This causes build failures when using "-fpermissive".

```
ffaudio-core.cc: In function 'AVInputFormat*
get_format_by_content(const char*, VFSFile&)':
ffaudio-core.cc:291:36: error: invalid conversion from 'const
AVInputFormat*' to 'AVInputFormat*' [-fpermissive]
  291 |         f = av_probe_input_format2 (& d, true, & score);
      |             ~~~~~~~~~~~~~~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~
      |                                     |
      |                                     const AVInputFormat*
ffaudio-core.cc: In function 'bool find_codec(AVFormatContext*,
CodecInfo*)':
ffaudio-core.cc:364:52: error: invalid conversion from 'const
AVCodec*' to 'AVCodec*' [-fpermissive]
  364 |         AVCodec * codec = avcodec_find_decoder
(stream->codecpar->codec_id);
      |
~~~~~~~~~~~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~
      |                     |
      |                     const
AVCodec*
```

Workaround by Arch Linux: https://github.com/archlinux/svntogit-packages/commit/40cc5f012245a25c182afe3cd6ec27056381bbe4

History

#1 - February 27, 2022 20:38 - Thomas Lange

> This causes build failures when using "-fpermissive".

Obviously missing a "not"...

#2 - February 28, 2022 16:08 - John Lindgren

Is it enough just to add "const" in our code? Or does that break things with older ffmpeg versions?

#3 - March 01, 2022 01:40 - Thomas Lange

- File ffaudio.diff added

It does not work directly, but we can cast away the "const" for "avformat_open_input()".
The attached patch compiles with FFmpeg 4.4 and 5.0, tested with/without "export PKG_CONFIG_PATH='/usr/lib/ffmpeg4.4/pkgconfig'".

Could you try it on an older distribution and/or Windows as well please?

#4 - March 01, 2022 21:39 - Artem S. Tashkinov

Thomas Lange wrote:

> Could you try it on an older distribution and/or Windows as well please?

Thanks for the patch, works fine with ffmpeg 5.0. Cannot test with ffmpeg 4.4 at the moment.

#5 - March 05, 2022 19:24 - John Lindgren

- % Done changed from 0 to 100

- Target version set to 4.2

- Status changed from New to Closed

This should be fixed in master now.

Files

ffaudio.diff	2.21 KB	March 01, 2022	Thomas Lange