

Tvheadend - Bug #2708

v3.9.2524 doesn't compile under Debian Jessie

2015-03-09 18:36 - Alfred Zastrow

Status:	Fixed	Start date:	2015-03-09
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Affected Versions:	
Found in version:	v3.9.2524		
Description			
<pre>CC src/avahi.o CC src/libav.o CC src/muxer/muxer_libav.o CC src/plumbing/transcoding.o src/plumbing/transcoding.c: In function 'transcoder_stream_video': src/plumbing/transcoding.c:1035:13: error: 'AVCodecContext' has no member named 'framerate' if (ictx->framerate.num != 0 && ictx->framerate.den != 0) { ^ src/plumbing/transcoding.c:1035:41: error: 'AVCodecContext' has no member named 'framerate' if (ictx->framerate.num != 0 && ictx->framerate.den != 0) { ^ src/plumbing/transcoding.c:1036:51: error: 'AVCodecContext' has no member named 'framerate' octx->time_base = av_inv_q(av_mul_q(ictx->framerate, av_make_q(ictx->ticks_per_frame, 1))); ^ src/plumbing/transcoding.c:1036:7: error: implicit declaration of function 'av_make_q' [-Werror=implicit-function-declaration] octx->time_base = av_inv_q(av_mul_q(ictx->framerate, av_make_q(ictx->ticks_per_frame, 1))); ^ src/plumbing/transcoding.c:1036:38: error: incompatible type for argument 2 of 'av_mul_q' octx->time_base = av_inv_q(av_mul_q(ictx->framerate, av_make_q(ictx->ticks_per_frame, 1))); ^ In file included from /usr/include/libavutil/avutil.h:276:0, from /usr/include/libavutil/samplefmt.h:24, from /usr/include/libavcodec/avcodec.h:31, from /usr/include/libavformat/avformat.h:255, from src/plumbing/transcoding.c:20: /usr/include/libavutil/rational.h:91:12: note: expected 'AVRational' but argument is of type 'int' AVRational av_mul_q(AVRational b, AVRational c) av_const; ^ cc1: all warnings being treated as errors Makefile:414: recipe for target '/root/tvheadend/build.linux/src/plumbing/transcoding.o' failed make²: * [/root/tvheadend/build.linux/src/plumbing/transcoding.o] Error 1 make²: Leaving directory '/root/tvheadend' debian/rules:11: recipe for target 'override_dh_auto_build' failed make¹: [override_dh_auto_build] Error 2 make¹: Leaving directory '/root/tvheadend' debian/rules:5: recipe for target 'build' failed make: ** [build] Error 2 dpkg-buildpackage: Fehler: Fehler-Exitstatus von debian/rules build war 2</pre>			

Associated revisions

Revision 96898a66 - 2015-03-11 20:40 - S. Benz

transcoding: fix compile error when using libav, fixes #2708

AVCodecContext.framerate and av_make_q() are only available since ffmpeg 2.5 and not available in libav

History

#1 - 2015-03-09 18:40 - Alfred Zastrow

Maybe it's broken by this change:

Revision a69ee153 src/plumbing/transcoding.c

#2 - 2015-03-09 20:43 - Piotr Kuchciak

I also have a problem with compile:

```
CC      src/libav.o
CC      src/muxer/muxer_libav.o
CC      src/plumbing/transcoding.o
src/plumbing/transcoding.c: In function 'transcoder_stream_video':
src/plumbing/transcoding.c:1035:13: error: 'AVCodecContext' has no member named 'framerate'
src/plumbing/transcoding.c:1035:41: error: 'AVCodecContext' has no member named 'framerate'
src/plumbing/transcoding.c:1036:47: error: 'AVCodecContext' has no member named 'framerate'
src/plumbing/transcoding.c:1036:7: error: implicit declaration of function 'av_make_q' [-Werror=implicit-function-declaration]
src/plumbing/transcoding.c:1036:7: error: incompatible type for argument 2 of 'av_mul_q'
In file included from /usr/include/libavutil/frame.h:34:0,
from /usr/include/libavcodec/avcodec.h:37,
from /usr/include/libavformat/avformat.h:255,
from src/plumbing/transcoding.c:20:
/usr/include/libavutil/rational.h:91:12: note: expected 'AVRational' but argument is of type 'int'
cc1: all warnings being treated as errors
make: *** [/home/hts/tvheadend/build.linux/src/plumbing/transcoding.o] Błąd 1
```

#3 - 2015-03-10 08:07 - S. Benz

Yeah, that was my fault. Will provide a fix later today.

#4 - 2015-03-10 09:44 - S. Benz

- File 0001-transcoding-fix-compile-error-when-using-libav-fixes.patch added

The problem is that AVCodecContext.framerate and av_make_q() are only available since ffmpeg 2.5 (which is used with --enable-libffmpeg_static).

Can you test with this patch? libav is too old on my distribution, so I'd have to build libav myself before I could test this...

#5 - 2015-03-10 12:55 - Prof Yaffle

FWIW, I just applied this patch to 3.9.2524~gbd06d3c and successfully compiled against ffmpeg-2.4.2. Build only, I haven't tested runtime.

Similarly, simply removing the existing version of ffmpeg I had downloaded and using --enable-libffmpeg_static triggered a new download/build of ffmpeg 2.5.2. I can build successfully against that with or without this patch.

#6 - 2015-03-10 12:58 - Prof Yaffle

Probably worth noting that this was on Ubuntu 14.04, kernel 3.13.0-45-generic, using this build instruction:

```
AUTOBUILD_CONFIGURE_EXTRA="--enable-trace --enable-libffmpeg_static" ./Autobuild.sh -t precise-amd64
```

#7 - 2015-03-10 18:04 - Rafal Kupiec

```
Source configured.
Compiling source in /var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999 ...
```

```
make j20 -s CC=x86_64-pc-linux-gnu-gcc
Receiving data/dvb-scan/dvb-t from http://linuxtv.org/git/dtv-scan-tables.git
src/plumbing/transcoding.c: In function 'transcoder_stream_video':
src/plumbing/transcoding.c:1035:13: error: 'AVCodecContext' has no member named 'framerate'
if (ictx->framerate.num != 0 && ictx->framerate.den != 0) {
^
src/plumbing/transcoding.c:1035:41: error: 'AVCodecContext' has no member named 'framerate'
if (ictx->framerate.num != 0 && ictx->framerate.den != 0) {
^
src/plumbing/transcoding.c:1036:51: error: 'AVCodecContext' has no member named 'framerate'
octx->time_base = av_inv_q(av_mul_q(ictx->framerate, av_make_q(ictx->ticks_per_frame, 1)));
^
src/plumbing/transcoding.c:1036:7: warning: implicit declaration of function 'av_make_q' [-Wimplicit-function-declaration]
octx->time_base = av_inv_q(av_mul_q(ictx->framerate, av_make_q(ictx->ticks_per_frame, 1)));
^
```

```
src/plumbing/transcoding.c:1036:38: error: incompatible type for argument 2 of 'av_mul_q'
octx->time_base = av_inv_q(av_mul_q(ictx->framerate, av_make_q(ictx->ticks_per_frame, 1)));
^
```

```
In file included from /usr/include/libavutil/avutil.h:276:0,
from /usr/include/libavutil/samplefmt.h:24,
from /usr/include/libavcodec/avcodec.h:31,
from /usr/include/libavformat/avformat.h:255,
from src/plumbing/transcoding.c:20:
/usr/include/libavutil/rational.h:91:12: note: expected 'AVRational' but argument is of type 'int'
AVRational av_mul_q(AVRational b, AVRational c) av_const;
^
```

```
Makefile:414: recipe for target '/var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999/build.linux/src/plumbing/transcoding.o' failed
make: * [/var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999/build.linux/src/plumbing/transcoding.o] Error 1
make: * Waiting for unfinished jobs.... * ERROR: media-tv/tvheadend-9999::eris-overlay failed (compile phase): * emake failed * * If you need
support, post the output of `emerge --info '=media-tv/tvheadend-9999::eris-overlay'`, * the complete build log and the output of `emerge -pqv
'=media-tv/tvheadend-9999::eris-overlay'`. * The complete build log is located at '/var/log/portage/media-tv:tvheadend-9999:20150310-170202.log'. *
For convenience, a symlink to the build log is located at '/var/tmp/portage/media-tv/tvheadend-9999/temp/build.log'. * The ebuild environment file is
located at '/var/tmp/portage/media-tv/tvheadend-9999/temp/environment'. * Working directory:
'/var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999' * S: '/var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999'
```

Failed to emerge media-tv/tvheadend-9999, Log file:

'/var/log/portage/media-tv:tvheadend-9999:20150310-170202.log'

- Messages for package media-tv/tvheadend-9999:

- ERROR: media-tv/tvheadend-9999::eris-overlay failed (compile phase): * emake failed * * If you need support, post the output of `emerge --info '=media-tv/tvheadend-9999::eris-overlay'`, * the complete build log and the output of `emerge -pqv '=media-tv/tvheadend-9999::eris-overlay'`. * The complete build log is located at '/var/log/portage/media-tv:tvheadend-9999:20150310-170202.log'. * For convenience, a symlink to the build log is located at '/var/tmp/portage/media-tv/tvheadend-9999/temp/build.log'. * The ebuild environment file is located at '/var/tmp/portage/media-tv/tvheadend-9999/temp/environment'. * Working directory: '/var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999' * S: '/var/tmp/portage/media-tv/tvheadend-9999/work/tvheadend-9999'

#8 - 2015-03-10 18:07 - Alfred Zastrow

Hi,

with this patch it is comiling fine just by using Autobuild.sh without any arguments. Thanks.
This is the environment of my pretty clean Debian Jessie:

```
Checking support/features
checking for cc execinfo.h ...      ok
checking for cc -mmm ...           ok
checking for cc -msse2 ...         ok
checking for cc getloadavg ...     ok
checking for cc atomic64 ...       ok
checking for cc lockowner ...      ok
checking for cc qsort_r ...        ok
checking for cc recvmmsg ...       ok
checking for cc libiconv ...       fail
checking for py module gzip ...    ok
checking for bzip2 ...             ok
checking for pkg openssl ...       ok (detected 1.0.1k)
checking for cc linux/dvb/version.h ... ok
checking for cc libhdhomerun/hdhomerun.h ... fail
checking for pkg zlib ...          ok (detected 1.2.8)
checking for pkg liburiparser ...  ok (detected 0.8.0.1)
checking for pkg avahi-client ...  ok (detected 0.6.31)
checking for ffmpeg libraries ...  fail
checking for pkg libavcodec >=55.34.1 ... ok (detected 56.1.0)
checking for pkg libavutil >=53.3.0 ... ok (detected 54.3.0)
checking for pkg libavformat >=55.12.0 ... ok (detected 56.1.0)
checking for pkg libswscale >=2.1.2 ... ok (detected 3.0.0)
checking for pkg libavresample >=1.1.0 ... ok (detected 2.1.0)
checking for cc sys/inotify.h ...  ok
fetching dvb-scan files ...       ok
checking for pkg dbus-1 ...        ok (detected 1.8.16)
```

#9 - 2015-03-10 18:30 - S. Benz

Thank you for testing, Prof Yaffle and Alfred.

I created a pull request with the patch here: <https://github.com/tvheadend/tvheadend/pull/605>

#10 - 2015-03-11 21:40 - S. Benz

- *Status changed from New to Fixed*

- *% Done changed from 0 to 100*

Applied in changeset [tvheadend|96898a66e96927e4ace9a637ea923fd9f514dd1d](#).

Files

0001-transcoding-fix-compile-error-when-using-libav-fixes.patch	1.48 KB	2015-03-10	S. Benz
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