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## playing .mp4 files with hello\_video

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by **av2kk** » Tue Jul 17, 2012 11:13 am

I am trying to modify hello\_video example to play .mp4 files. I tried changing the following line in video.c

```
format.eCompressionFormat = OMX_VIDEO_CodingAVC;  
to  
format.eCompressionFormat = OMX_VIDEO_CodingMPEG4;
```

but the program hangs when trying to open .mp4 .  
On investigation I found it is failing the following test.  
ilclient\_enable\_port\_buffers(video\_decode, 130, NULL, NULL, NULL) == 0)

Thanks for any help.

Krish

by **dom** » Tue Jul 17, 2012 3:44 pm

OMX\_VIDEO\_CodingMPEG4 is the encoded video format of MPEG4. Nothing to do with a container format of mp4 (which most likely is still encoded as AVC/H264).

To play video inside a container like mp4 you will need another library that parses containers, like libavcodec.

Look at omxplayer

<https://github.com/huceke/omxplayer/>

**Posts:** 21**Joined:** Tue Jul 17, 2012

11:01 am

Raspberry Pi Engineer &  
Forum Moderator

**Posts:** 4641**Joined:** Wed Aug 17, 2011

7:41 pm

by **av2kk** » Wed Jul 18, 2012 10:36 am

Thanks Dom.

While I am trying to work on the OMXplayer code, can you suggest any link from where I can download the OMXPlayer.bin so that I can carry on with my main project which is to play audio video files based on GPS input. I intend to use the OMXPlayer.bin in my program using `system("./OMXPlayer <file name>");`

Thanks for any help.

Krish

by **dom** » Wed Jul 18, 2012 12:29 pm

If you update to new image:

<http://www.raspberrypi.org/archives/1605>

omxplayer is preinstalled.

by **marosg** » Wed Jul 18, 2012 2:32 pm

I would like to try to make some changes to omxplayer for myself, to see how these things work. It is long time since I did some programming. Fortunately omxplayer is written in C. Can you suggest some easy to follow steps how to get omxplayer source and compile it on Pi myself ? I have no idea how to do it properly, how to get all things that are needed.

Thank you

by **av2kk** » Thu Jul 19, 2012 12:29 pm

I got the latest Debian (15-7-2012) and tried omxplayer. but the display shows up the first

**Location:** Cambridge

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Raspberry Pi Engineer &

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**Posts:** 4641

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**Location:** Cambridge

**Posts:** 25

**Joined:** Sat Jul 07, 2012

2:41 pm

**Posts:** 21

frame for a second and the program quits with a have a nice day!

===== terminal response

\$omxplayer -ohdmi test.mp4

file : test.mp4 result 13 format mov,mp4,m4a,3gp,3g2,mj2 audio streams 1 video streams 1

chapters 0 subtitles 0

Video codec omx-h264 width 640 height 296 profile 578 fps 23.976025

Audio codec aac channels 2 samplerate 44100 bitspersample 16

have a nice day 😊

=====

the omxplayer.log file has a number of entries .The last lines are (for some unknown reason I am unable to attach the omxplayer.log file to the post)

=====

00:00:00 T:0 DEBUG: COMXAudio::Initialize Input bps 16 samplerate 44100 channels 2

device hdmi buffer size 352800 bytes per second 176400 passthrough 0 hwdecode 0

00:00:00 T:0 DEBUG: OMXThread::Create - Thread with id 1163154528 started

00:00:00 T:0 DEBUG: pcm->nPortIndex : 232

00:00:00 T:0 DEBUG: pcm->eNumData : 0

00:00:00 T:0 DEBUG: pcm->eEndian : 1

00:00:00 T:0 DEBUG: pcm->bInterleaved : 1

00:00:00 T:0 DEBUG: pcm->nBitPerSample : 16

00:00:00 T:0 DEBUG: pcm->ePCMMode : 0

00:00:00 T:0 DEBUG: pcm->nChannels : 2

00:00:00 T:0 DEBUG: pcm->nSamplingRate : 44100

00:00:00 T:0 DEBUG: OMX\_AUDIO\_ChannelLF

00:00:00 T:0 DEBUG: OMX\_AUDIO\_ChannelRF

00:00:00 T:0 DEBUG: pcm->nPortIndex : 100

00:00:00 T:0 DEBUG: pcm->eNumData : 0

00:00:00 T:0 DEBUG: pcm->eEndian : 1

00:00:00 T:0 DEBUG: pcm->bInterleaved : 1

00:00:00 T:0 DEBUG: pcm->nBitPerSample : 16

00:00:00 T:0 DEBUG: pcm->ePCMMode : 0

00:00:00 T:0 DEBUG: pcm->nChannels : 2

00:00:00 T:0 DEBUG: pcm->nSamplingRate : 44100

**Joined:** Tue Jul 17, 2012

11:01 am

```

00:00:00 T:0 DEBUG: OMX_AUDIO_ChannelLF
00:00:00 T:0 DEBUG: OMX_AUDIO_ChannelRF
00:00:00 T:0 ERROR: OMXPlayerAudio::WaitCompletion - wait for eos timed out
00:00:00 T:0 DEBUG: OMXThread::Run - Exited thread with id 1153860704
00:00:00 T:0 DEBUG: OMXThread::StopThread - Thread stopped
00:00:00 T:0 DEBUG: OMXThread::Run - Exited thread with id 1163154528
00:00:00 T:0 DEBUG: OMXThread::StopThread - Thread stopped
00:00:00 T:0 ERROR: COMXCoreComponent::DecoderEventHandler
OMX.broadcom.audio_mixer - OMX_ErrorPortUnpopulated (0), cannot parse input stream
=====

```

Does it mean something is wrong with the test.mp4 file. I down loaded this movie trailer from the web and renamed it.

by **KenT** » Thu Jul 19, 2012 4:21 pm

av2kk wrote:I got the latest Debian (15-7-2012) and tried omxplayer. but the display shows up the first frame for a second and the program quits with a have a nice day!

[snip]

Does it mean something is wrong with the test.mp4 file. I down loaded this movie trailer from the web and renamed it.

**Posts:** 745

**Joined:** Tue Jan 24, 2012

9:30 am

**Location:** Hertfordshire, UK



It looks like there is a bug introduced into the version of omxplayer that is in wheezy raspbian in that it prematurely terminates the playing of short videos. If you have a previous version of omxplayer you will probably find that your file plays OK but cannot be paused as its a short file.

Pi Presents - A toolkit to produce multi-media interactive display applications for museums, visitor centres, and more

Download from <http://pipresents.wordpress.com>

by **av2kk** » Fri Jul 20, 2012 1:28 am

KenT wrote:

It looks like there is a bug introduced into the version of omxplayer that is in wheezy raspbian in that it prematurely terminates the playing of short videos. If you have a previous version of omxplayer you will probably find that your file plays OK but cannot be paused as its a short file.

**Posts:** 21

**Joined:** Tue Jul 17, 2012

11:01 am

I tried a longer file (5 mins) with the same result. Is this also considered short?

1.How can this bug be brought to the notice of the author?

2. How can I get the earlier version and replace the present . I am new to linux and will appreciate step by step instructions.

My goal is to play .mp4 files and have full control on pausing ,replaying etc. programatically. Thanks for any help.

by **Ocean20** » Wed Jul 25, 2012 5:28 am

I can play mp3 sound files using the analogue output and omxplayer. I can't play AVI videos with omxplayer which only plays the sound of the video. I can play an AVI video with mplayer but don't get sound. Hmmm what should I do?

**Posts:** 38

**Joined:** Wed Jul 18, 2012

2:36 am

**Location:** Australia



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