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Convert an AVCHD / MTS file to MP4 using ffmpeg

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Convert an .MTS file to a .MP4 file

We want to convert it to .MP4, for instance to show it on a mobile device Android, or to play it on xbmc, or to import into kdenlive.

For a whole directory, type:

```
IFS=$(echo -en "\n\b"); for i in *.MTS; do ffmpeg -i "$i" -vcodec mpeg4 -b:v 15M -acodec libmp3lame -b:a 192k "$i.mp4"; done
```

or offtopic:

```
find . -print0 | while read -d $'\0' file
do
    echo -v "$file"
done
```

Now, if you want to resize it for some reason (show on mobile phone):

```
#ffmpeg -i 00031.MTS -s 480x320 -b:v 4000k 00031.MP4
```

-i = input file

-s = size <=== PUT THE SIZE PARAMETER JUST AFTER THE INPUTFILENAME, OTHERWISE YOU GET AN ERROR

-b:v = videobitrate, 8000k gives a slightly better image, but doubles the filesize -b:a = audiobitrate

Using these parameters you shrink a 25MB movie to a 6 MB movie.

Convert an .DV file to a .MP4 file

```
ffmpeg -i tape.dv -vcodec mpeg4 -b:v 15M -acodec libmp3lame -ab 192k -threads 2 -ilme tape.mp4
```

-ilme = Force interlacing support in encoder (MPEG-2 and MPEG-4 only). Use this option if your input file is interlaced and you want to keep the interlaced format for minimum losses. The alternative is to deinterlace the input stream with **-deinterlace**, but deinterlacing introduces losses.

Convert an .MTS file to a .DV file for video editing

We want to convert it to .DV, because then our video editing program (kdenlive) will process the clips much much faster!!!

```
#ffmpeg -i 00005.MTS -f avi -b:v 16000k -ab 192k 00005.DV
```

-i = input file

-f = format, appeared neccessary

-b:v = videobitrate, this value of 16000k is exactly the same as the source file, because we don't want any loss!!

-b:a = audio bitrate, this value of 192k is exactly the same as the source file, because we don't want any loss!!

ALTERNATIVE

I also found this commandline, worked very well:

```
ffmpeg-kino -threads 2 -i 00120.MTS -s 720x576 -r pal -aspect 16:9 -ac 2 -ar 48000 -pix_fmt yuv420p -y 00120.MTS.dv
```

Another commandline:

```
ffmpeg -y -i 00141.MTS -vcodec mpeg4 -b:v 8000000 -ab 128000 -s 1280x720 new2.mp4
ffmpeg -y -i 00101.MTS -vcodec mpeg4 -b:v 14M -acodec ac3 -ab 192k new.mp4 <-- deze gebruikt om .MTS in kdenlive te importeren
```

dus:

```
for i in *; do ffmpeg -y -i "$i" -vcodec mpeg4 -b:v 14M -acodec ac3 -ab 192k "$i".mp4; done
```

Convert to WebM (VP8)

A valid WebM file can only contain VP8 video and Vorbis audio in a .webm container.

```
ffmpeg -i bla.mp4 -vcodec libvpx -b:v 15M -acodec libvorbis -b:a 192k out.webm
```

For web page (reduced size):

```
# ffmpeg -i 44.mp4 -s 568x320 -vcodec libvpx -b:v 300k -acodec libvorbis -b:a 64k 44.webm
```

Convert an .MTS file to Flash (FLV)

```
ffmpeg -i bla.mts -s 640x360 -ar 22050 -b:v 1M blaat.flv
```

of pas de bitrate aan voor hogere kwaliteit:

```
ffmpeg -i bla.mts -s 640x360 -ar 22050 -b:v 3M blaat.flv
```

Convert an old analogue letterbox recording to SD digital format

The input file was

```
Input #0, mpeg, from '1106_20091226203000.mpg':
  Duration: 04:24:55.20, start: 0.276144, bitrate: 6934 kb/s
    Stream #0.0[0x1e0]: Video: mpeg2video (Main), yuv420p, 720x576 [PAR 64:45 DAR 16:9], 8000 kb/s, 25 fps, 25 tbr, 90k tbn, 50 tbc
    Stream #0.1[0x1c0]: Audio: mp2, 48000 Hz, stereo, sl6, 384 kb/s
```

and the picture has big black borders on the top and bottom and looks squashed. It was supposed to be stretched to fill up the screen (Our old analogue TV did that automatically).

This must be done in 2 steps: first the cropping, then rescaling back to 16:9

The first command is

```
ffmpeg -i input.mpg -vf crop=720:430 -vcodec mpeg2video -b:v 8M -acodec mp2 -b:a 384k 25ycrop.mpg
```

Note that we try to keep the audio/video exactly the same as the sourcefile. The commandline options -sameq and -vcodec copy don't seem to work here.

Next we must scale the video back to full screen, again the same settings for vcodec and acodec:

```
ffmpeg -i 25ycrop.mpg -s 720x576 -aspect 16:9 -vcodec mpeg2video -b:v 8M -acodec mp2 -b:a 384k bla.mpg
```

Other examples

```
# ffmpeg -i 00039.MTS -f avi -vcodec mpeg4 -b:v 16000 bla.wmv
# ffmpeg -i 00039.MTS -f avi -vcodec msmpeg4v2 -b:v 16000 bla.wmv
# ffmpeg -y -i VIDEO0005.3gp -vcodec wm2 -f avi -ar 44100 kerst2009.avi
```

```
# ffmpeg -formats          -> lists formats
# ffmpeg -f avi           -> force avi format
# ffmpeg -codecs          -> lists codecs
# ffmpeg -vcodec mpeg4     -> use codec
# ffmpeg -acodec libmp3lame -> use mp3 audio codec
# ffmpeg -i <inputfile>    -> show info about movie file
# ffmpeg -y               -> overwrite outputfiles
# ffmpeg -vcodec copy -ss 00:01:00 -t 00:03:00 -i infile.mpg outfile.mpg -> this cut the file from 1 minute to 4 minutes (t=duration)
or
# ffmpeg -i inputfilename.mpg -sameq -ss 00:01:00 -t 00:03:00 outfile.mpg
The above will extract 3 minutes of mpg file from the 1 minute mark using same quality as the source file. This is useful for Variable Bit Rate (VBR) encoded files.
# ffmpeg -target dvd|vcd|svcd|dv|dv50 -> all options are set automagically, but you can overrule as long as they don't conflict w/ the standard
-r --> set framerate, default = 25. also 'pal' is accepted
-threads --> set thread count
# ffmpeg -i 00090.MTS -f avi -b 6000k -ab 192k -vcodec mpeg2video 00090.mpg
convert MTS to XBOX readable format
```

Sharpening

Using the -vf option.

```
# Strong luma sharpen effect parameters
unsharp=7:7:2.5

PvdM: dit betekent [unsharp @ 0x64f7c0] effect:sharpen type:luma msize_x:7 msize_y:7 amount:2.50

# Strong blur of both luma and chroma parameters
unsharp=7:7:-2:7:7:-2

# Use the default values with ffmpeg
./ffmpeg -i in.avi -vf "unsharp" out.mp4

PvdM: dit betekent [unsharp @ 0x64f7a0] effect:sharpen type:luma msize_x:5 msize_y:5 amount:1.00
```

Example:

```
ffmpeg -i part1.dv -vf "unsharp" -target dvd test2.mpg
```

Timestamps

To **set** the timestamp of the **file** to the video's internal **creation date/time**, you can use:

```
exiftool '-CreateDate>FileModifyDate' FILE
```

To force a date/time when converting:

```
ffmpeg -i 00041.MTS -vcodec mpeg4 -acodec copy -timestamp 2000012312:21:34 bla.mp4
```

Split video files

```
ffmpeg -i input.mpg -ss 00:00:10 -t 00:00:30 out1.mpg
```

-ss is the start point in hh:mm:ss from the beginning of your video file

-t is the length of time in hh:mm:ss of your new segment.

So, in the above example, you're starting 10 seconds in from the beginning of the original file and ending 30 seconds later.

If you want to create multiple parts in one pass then the following should work:

```
ffmpeg -i input.mpg -ss 00:00:10 -t 00:00:30 out1.mpg -ss 00:00:35 -t 00:00:30 out2.mpg
```

In this example, the first segment is the same as the first example, but you're also creating a second file starting at 35 seconds in and being 30 seconds long.

Remember to use the correct encoding:

```
ffmpeg -i input.mpg -ss 00:00:10 -vcodec copy -acodec copy output.mpg
```

Cut an avi file from second 1 to 12.9.

```
mencoder -ss 00:01 -endpos 00:12.900 -ovc copy -oac copy -o out.avi in.avi
```

Merge video files

To merge 2 or more files, use the 'cat' command and pipe it through ffmpeg, like this:

```
cat 1.mpg 2.mpg | ffmpeg (-f mpeg) -i - -vcodec copy -acodec copy outfile.mpg
```

Unfortunately, this does not work. Again, mencoder to the rescue:

```
mencoder -oac copy -ovc copy -o output.mp4 1.mp4 2.mp4
```

Flip video files

hflip and vflip

```
ffmpeg -i input.mp4 -vf hflip,vflip,format=yuv420p -codec:v libx264 -preset medium -crf 23 -codec:a copy output.mkv
```

The above did not work, but this did:

```
ffmpeg -i VID_20130915_110755.mp4 -vf transpose=2,transpose=2 output.mp4
```

rotate video files 90 degrees counterclockwise

```
ffmpeg -i 20160416_152451.mp4 -vf transpose=2 -c:a copy output.mp4
```

create timelapse movie

To create a timelapse movie from images in a directory, use:

```
mencoder "mf://*.jpg" -mf fps=5 -o test.avi -ovc lavc -lavcopts vcodec=msmpeg4v2:vbitrate=1000
```

I know, this is mencoder, but it works.

FFmpeg uses the following format:

```
ffmpeg -f image2 -r 10 -b:v 1M -i %03d.jpg test2.mp4
```

but this doesn't work. Also it requires the imagefilenames to be of name 001.jpg - 999.jpg, which is not always the case.

Rename files sequentially

```
cnt=1;for i in `ls *.jpg`; do mv ${i} ${cnt}.jpg;cnt=$((cnt+1)); done
```

To list available formats (supported pixel formats, video formats, and frame sizes) for a particular input device:

```
$ ffmpeg -f v4l2 -list_formats all -i /dev/video0
```

Alternatively you could use

```
v4l2-ctl --list-formats-ext
```

to list available formats.

To take a picture with a webcam

```
ffmpeg -f video4linux2 -i /dev/video0 -vframes 1 test.jpeg
```

record the screen, capture the desktop

Use the x11grab device:

```
ffmpeg -video_size 1024x768 -framerate 25 -f x11grab -i :0.0+100,200 output.mp4
```

This will grab the image from desktop, starting with the upper-left corner at (x=100, y=200) with the width and height of 1024x768.

If you need audio too you can use ALSA (see [Capture/ALSA](#) for more info):

```
ffmpeg -video_size 1024x768 -framerate 25 -f x11grab -i :0.0+100,200 -f alsa -ac 2 -i hw:0 output.mkv
```

Or the pulse input device:

```
ffmpeg -video_size 1024x768 -framerate 25 -f x11grab -i :0.0+100,200 -f pulse -ac 2 -i default output.mkv
```

Merging video and audio, with audio re-encoding

See this example, taken from this [blog entry](#) but updated for newer syntax. It should be something to the effect of:

```
ffmpeg -i video.mp4 -i audio.wav -c:v copy -c:a aac -strict experimental output.mp4
```

Here, we assume that the video file does not contain any audio stream yet, and that you want to have the same output format (here, MP4) as the input format.

The above command transcodes the audio, since MP4s cannot carry PCM audio streams. You can use any other desired audio codec if you want. See the AAC Encoding Guide for more info.

If your audio or video stream is longer, you can add the -shortest option so that ffmpeg will stop encoding once one file ends.

Copying the audio without re-encoding

If your output container can handle (almost) any codec – like MKV – then you can simply copy both audio and video streams:

```
ffmpeg -i video.mp4 -i audio.wav -c copy output.mkv
```

Replacing audio stream

If your input video already contains audio, and you want to replace it, you need to tell ffmpeg which audio stream to take:

```
ffmpeg -i video.mp4 -i audio.wav -c:v copy -c:a aac -strict experimental -map 0:v:0 -map 1:a:0 output.mp4
```

The map option makes ffmpeg only use the first video stream from the first input and the first audio stream from the second input for the output file.

extract images from a video

```
ffmpeg -i giveafuck.mp4 image-%3d.jpeg
```

-r This is used to set the frame rate of video. i.e. no. of frames to be extracted into images per second. The default value is 25, using which, would have yielded a large number of images.

Create a thumbnail image every X seconds of the video

Output a single frame from the video into an image file:

```
ffmpeg -i input.flv -ss 00:00:14.435 -vframes 1 out.png
```

This example will seek to the position of 0h:0m:14sec:435msec and output one frame (-vframes 1) from that position into a PNG file.

Output one image every second, named out1.png, out2.png, out3.png, etc.:

```
ffmpeg -i input.flv -vf fps=1 out%d.png
```

Output one image every minute, named img001.jpg, img002.jpg, img003.jpg, etc. The %03d dictates that the ordinal number of each output image will be formatted using 3 digits:

```
ffmpeg -i myvideo.avi -vf fps=1/60 img%03d.jpg
```

Output one image every ten minutes:

```
ffmpeg -i test.flv -vf fps=1/600 thumb%04d.bmp
```

Merge pictures into an Animated GIF

```
convert -delay <ticks>x<ticks-per-second> -loop 0 out*gif <output-gif-file>
```

In the command, "-delay" is an option that controls the animation speed. This option indicates that [ticks/ticks-per-second] seconds must elapse before the display of the next frame. The "-loop 0" option indicates infinite loops of

animation. If you want, you can specify "-loop N", in which case the animation will repeat itself N times.

For example, to create an animated GIF image with 20 frames-per-second and infinite loop, use the following command.

```
$ convert -delay 1x20 -loop 0 out*.gif animation.gif
```

The last (optional) step is to reduce the size of the created GIF file, by using ImageMagick's GIF optimizer.

Use the following command to reduce the GIF size.

```
$ convert -layers Optimize animation.gif animation_small.gif
```

DVD

Re-encode for DVD use

```
# mythreplex --demux --fix_sync -o /data/stream -v 224 -c 128 "/data/newfile2.mpg"
# tcrequant /data/stream.mv2 /data/video.small.m2v 1.17052143685
```

Pull Chapters from VOB

You can pull chapters from VOB files using mplayer. Here's a command line to pull chapter 3 from the DVD drive and dump it to a VOB.

```
mplayer dvd:// -chapter 3-3 -dumpstream -dumpfile 3.vob
```

Rip VOB to mpeg4

and **deinterlace** as well.

```
ffmpeg -i VTS_01_1.VOB -vcodec mpeg4 -b:v 10M -acodec copy -deinterlace lanldeinterlaced.mp4
```

Rip VOB to DV

The following command will rip a VOB file straight from an unencrypted DVD and convert it to a straight DV file.

```
ffmpeg -i /cdrom/VIDEO_TS/VTS_01_1.VOB -target dv /home/joel/Videos/game_vi.dv
```

Rip VOB to DVD

The following command will rip a VOB file to an MPEG2 video with AC3 audio for a DVD. It also uses the '-sameq' option which uses the same quality factor in the encoder as in the decoder, allowing almost lossless encoding.

```
ffmpeg -i myfile.vob -target dvd -sameq myfile.mpg
```

Rip VOB to VCD

The following command will rip a VOB file to a MPEG1 video with MP1 audio.

```
ffmpeg -i myfile.vob -target vcd myfile.mpg
```

Rip VOB to Flash (FLV)

The following command will rip a VOB file to 352×240 (the same size as VCD) and will save it as a flash file.

```
ffmpeg -i myfile.vob -s 352x240 myfile.flv
```

Audio

combine multiple sources to one destination

```
# ffmpeg -f concat -i /tmp/list.txt output3.flac
```

where list.txt contains:

```
file '/tmp/file1'  
file '/tmp/file2'
```

or try:

```
ffmpeg -i "concat:input1.mpg|input2.mpg|input3.mpg" -c copy output.mpg
```

better still:

```
ffmpeg -f concat -i <( for f in *.wav; do echo "file '$(pwd)/$f'"; done ) output.wav
```

Convert .dsf files (SACD) to standard .wav files (PCM - CD quality)

```
ffmpeg -i 04.dsf -acodec pcm_s16le -ar 44100 -ac 2 output.wav
```

This however, does not give enough audio quality.

The Golden Line:

```
ffmpeg -i input.dsf -acodec pcm_s24le -ar 44100 -ac 2 44100_24.wav
```

I have tried it with 32 bits and with 88200 and higher, could not hear it.

copy/convert from multistream sources

Given the following input file:

```
# ffmpeg -i input.mkv  
  
ffmpeg version ... Copyright (c) 2000-2012 the FFmpeg developers  
...  
Input #0, matroska,webm, from 'input.mkv':  
  Duration: 01:39:44.02, start: 0.000000, bitrate: 5793 kb/s  
    Stream #0:0(eng): Video: h264 (High), yuv420p, 1920x800, 23.98 fps, 23.98 tbr, 1k tbn, 47.95 tbc (default)  
    Stream #0:1(ger): Audio: dts (DTS), 48000 Hz, 5.1(side), s16, 1536 kb/s (default)  
    Stream #0:2(eng): Audio: dts (DTS), 48000 Hz, 5.1(side), s16, 1536 kb/s  
    Stream #0:3(ger): Subtitle: text (default)
```

If we want to extract only audio streams, from input file, then we can do it like this:

```
ffmpeg -i input.mkv -map 0:1 -map 0:2 -c copy output.mkv
```

or use the appropriate codecs

Create multichannel WAVs or FLACs

This command will 'rip' the first 5 minutes (which is the first song actually) of a quadraphonic (4.0) .WAV file that is 45 minutes long:

```
ffmpeg -i The\ Doobie\ Bothers-\ Toulouse\ Street.wav -acodec pcm_s16le -b:a 1400k -ss 0:0:0 -t 0:5:0 \
-ac 4 -map_channel 0.0.0 -map_channel 0.0.1 -map_channel 0.0.4 -map_channel 0.0.5 output.wav -y
```

The resulting file 'output.wav' will be a multichannel wav with the following channel order:

- 1. front left
- 2. front right
- 3. rear left
- 4. rear right

When loaded into audacity, and then when exported into either .WAV or .FLAC move the channel slider to 6 channels and the following channel mix must be done:

- output 1 -> channel: 1
- output 2 -> channel: 2
- output 3 -> channel: 5
- output 4 -> channel: 6

Channel identification

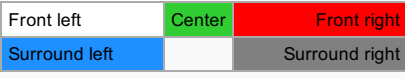
I found this:

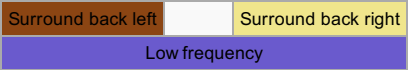
```
The track order of all 5.1 surround files follows the standard
as defined by SMPTE/EBU and implemented by SourceForge in FLAC (v. 1.2.1b):
L - R - C - Lfe - Ls - Rs flac.sourceforge.net
```

Also:

In accordance with ANSI/CEA-863-A<ref>Consumer Electronics Association standards: Setup and Connection</ref>

Zero-based order within multi-channel mp3/wav/flac datastream	Order within DTS/AAC	Channel name	Color-coding on commercial receiver and cabling
0	1	Front left	White
1	2	Front right	Red
2	0	Center	Green
3	5	Low frequency	Purple
4	3	Surround left	Blue
5	4	Surround right	Grey
6	6	Surround back left	Brown
7	7	Surround back right	Khaki





Standard speaker channels

This table shows the various speaker configurations that are commonly used for end-user equipment. The order and identifiers are those specified for the channel mask in the standard uncompressed WAV file format (which contains a raw multichannel PCM stream) and are used according to the same specification for most PC connectible digital sound hardware and PC operating systems capable of handling multiple channels. While it is certainly possible to build any speaker configuration, there isn't a lot of commercially available movie or music content for alternative speaker configurations. Such cases, however, can be worked around by remixing the source content channels to the speaker channels using a matrix table specifying how much of each content channel is played through each speaker channel.

Standard speaker channels

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Downmix of multichannel 5.1 audio to real quad 4 channel four speaker

A lot of music is supplied in a 5.1 channel format. That means front left, front right, center, rear left, rear right and subwoofer channel. But if you have a quadraphonic setup like me, you only have 4 speakers, which are real speakers, so no subwoofer is present nor needed. Center speaker is also absent. So you have left front, right front, left rear and right rear.

But then you have a problem with the voices in the surround mix, which are usually mixed on the center channel. The vocals will sound thin, if present at all. So what is needed is a downmix of the center channel to the two front channels. Or in other words:

```
destination:      source:
left front        <- left front + center channel
right front       <- right front + center channel
left rear         <- left rear
right rear        <- right rear
```

This can be achieved by the following ffmpeg command:

```
ffmpeg -i "$i" -af "pan=quad|c0<c0+c2|c1<c1+c2|c2=c4|c3=c5" "$i.flac"
```

Or, for a complete directory:

```
IFS=$(echo -en "\n\b"); for i in *.wav; do ffmpeg -i "$i" -af "pan=quad|c0<c0+c2|c1<c1+c2|c2=c4|c3=c5" "$i.flac"; done
```

HTC Hero

For the HTC Hero (Android) the default movie properties are:

```
Input #0, mov,mp4,m4a,3gp,3g2,mj2, from '26112009004.mp4':
  Duration: 00:00:39.06, start: 0.000000, bitrate: 424 kb/s
    Stream #0.0(und): Video: mpeg4, yuv420p, 320x240 [PAR 1:1 DAR 4:3], 372 kb/s, 15 tbr, 30k tbn, 30k tbc
    Stream #0.1(und): Audio: aac, 48000 Hz, mono, s16, 48 kb/s
  Metadata:
    major_brand      : mp42
    minor_version    : 0
    compatible_brands: mp423gp4isom
```

HTC Desire

Screen size: 800x480 For the Desire, the default movie properties are:

- Convert .MTS files for Desire:

```
for i in * ; do ffmpeg -i $i -s 800x480 -b 8000k /media/disk/DCIM/oostenrijk\ videos/$i.MP4; done
```

Samsung Galaxy S Plus

Screen size: 800x480

Encode videos for Samsung Galaxy S Plus

```
ffmpeg -i "27.mp4" -s 800x480 -vcodec mpeg4 -b 768k -acodec libmp3lame -ab 128k -dmix_mode loro "27.mobile.mp4"
```

where

- 512k gives rather bad image
- 1M gives perfect image
- 768k hits the sweetspot
- -dmix_mode loro is used for downmixing surround sound

Codecs

most used video codecs that ffmpeg can encode

WARNING!!! DEPRECATED !!!!!!!

```
Codecs:
D..... = Decoding supported
.E.... = Encoding supported
..V... = Video codec
..A... = Audio codec
..S... = Subtitle codec
...S.. = Supports draw_horiz_band
....D. = Supports direct rendering method 1
.....T = Supports weird frame truncation
-----
dvvideo      DV (Digital Video)
flashsv      Flash Screen Video
flc          Flash Video (FLV) / Sorenson Spark / Sorenson H.263
libtheora    libtheora Theora
libx264      libx264 H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
libxvid      libxvidcore MPEG-4 part 2
mjpeg        MJPEG (Motion JPEG)
mpeg1video   MPEG-1 video
mpeg2video   MPEG-2 video
mpeg4        MPEG-4 part 2
msmpeg4      MPEG-4 part 2 Microsoft variant version 3
msmpeg4v1    MPEG-4 part 2 Microsoft variant version 1
msmpeg4v2    MPEG-4 part 2 Microsoft variant version 2
wmv1         Windows Media Video 7
wmv2         Windows Media Video 8
```

all video codecs that ffmpeg can encode

```

Codecs:
D..... = Decoding supported
.E.... = Encoding supported
..V... = Video codec
..A... = Audio codec
..S... = Subtitle codec
...I.. = Intra frame-only codec
....L. = Lossy compression
.....S = Lossless compression
-----
D.VI.. 012v                Uncompressed 4:2:2 10-bit
D.V.L. 4xm                 4X Movie
D.VI.S 8bps                QuickTime 8BPS video
.EVIL. a64_multi           Multicolor charset for Commodore 64 (encoders: a64multi )
.EVIL. a64_multi5         Multicolor charset for Commodore 64, extended with 5th color (colram) (encoders: a64multi5 )
D.V..S aasc               Autodesk RLE
D.VIL. aic                Apple Intermediate Codec
DEVIL. amv                AMV Video
D.V.L. anm                Deluxe Paint Animation
D.V.L. ansi              ASCII/ANSI art
DEVIL. asv1              ASUS V1
DEVIL. asv2              ASUS V2
D.VIL. aura              Auravision AURA
D.VIL. aura2             Auravision Aura 2
D.V... avrn              Avid AVI Codec
DEVI.. avrp              Avid 1:1 10-bit RGB Packer
D.V.L. avs               AVS (Audio Video Standard) video
DEVI.. avui              Avid Meridien Uncompressed
DEVI.. ayuv              Uncompressed packed MS 4:4:4:4
D.V.L. bethsoftvid       Bethesda VID video
D.V.L. bfi               Brute Force & Ignorance
D.V.L. binkvideo         Bink video
D.VI.. bintext           Binary text
DEVI.S bmp               BMP (Windows and OS/2 bitmap)
D.V..S bmv_video         Discworld II BMV video
D.VI.S brender_pix       BRender PIX image
D.V.L. c93               Interplay C93
D.V.L. cavs              Chinese AVS (Audio Video Standard) (AVS1-P2, JiZhun profile)
D.V.L. cdgraphics        CD Graphics video
D.VIL. cdxl              Commodore CDXL video
D.V.L. cinepak            Cinepak
DEVIL. cljr              Cirrus Logic AccuPak
D.VI.S cllc              Canopus Lossless Codec
D.V.L. cmv               Electronic Arts CMV video (decoders: eacmv )
D.V... cpia              CpiA video format
D.V..S cscd              CamStudio (decoders: camstudio )
D.VIL. cyuv              Creative YUV (CYUV)
D.V.L. dfa               Chronomaster DFA
DEV.LS dirac              Dirac (decoders: dirac libschröedinger ) (encoders: libschröedinger )
DEVIL. dnxhd             VC3/DNxHD
DEVI.S dpx               DPX image
D.V.L. dsicinvideo       Delphine Software International CIN video
DEVIL. dvvideo           DV (Digital Video)
D.V..S dxa               Feeble Files/ScummVM DXA
D.VI.S dxtory            Dxtory
D.V.L. escape124         Escape 124
D.V.L. escape130         Escape 130
D.VILS exr               OpenEXR image
DEV..S ffv1              FFmpeg video codec #1
DEVI.S ffvhuff           HuffYuv FFmpeg variant
DEV..S flashsv           Flash Screen Video v1
DEV.L. flashsv2          Flash Screen Video v2
D.V..S flic              Autodesk Animator Flic video
DEV.L. flv1              FLV / Sorenson Spark / Sorenson H.263 (Flash Video) (decoders: flv ) (encoders: flv )
D.V..S fraps             Fraps

```

D.VI.S frwu	Forward Uncompressed
D.V.L. g2m	Go2Meeting
DEV..S gif	GIF (Graphics Interchange Format)
DEV.L. h261	H.261
DEV.L. h263	H.263 / H.263-1996, H.263+ / H.263-1998 / H.263 version 2
D.V.L. h263i	Intel H.263
DEV.L. h263p	H.263+ / H.263-1998 / H.263 version 2
DEV.LS h264	H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10 (decoders: h264 h264_vdpau) (encoders: libx264 libx264rgb)
DEVI.S huffyuv	HuffyUV
D.V.L. idcin	id Quake II CIN video (decoders: idcinvideo)
D.VI.. idf	iCEDraw text
D.V.L. iff_byterun1	IFF ByteRun1 (decoders: iff)
D.V.L. iff_ilbm	IFF ILBM (decoders: iff)
D.V.L. indeo2	Intel Indeo 2
D.V.L. indeo3	Intel Indeo 3
D.V.L. indeo4	Intel Indeo Video Interactive 4
D.V.L. indeo5	Intel Indeo Video Interactive 5
D.V.L. interplayvideo	Interplay MVE video
DEVILS jpeg2000	JPEG 2000
DEVILS jpegls	JPEG-LS
D.VIL. jv	Bitmap Brothers JV video
D.V.L. kgv1	Kega Game Video
D.V.L. kmvc	Karl Morton's video codec
D.VI.S lagarith	Lagarith lossless
.EVI.S ljpeg	Lossless JPEG
D.VI.S loco	LOCO
D.V.L. mad	Electronic Arts Madcow Video (decoders: eamad)
D.VIL. mdec	Sony PlayStation MDEC (Motion DECoder)
D.V.L. mimic	Mimic
DEVIL. mjpeg	Motion JPEG
D.VIL. mjpegb	Apple MJPEG-B
D.V.L. mmvideo	American Laser Games MM Video
D.V.L. motionpixels	Motion Pixels video
DEV.L. mpeg1video	MPEG-1 video (decoders: mpeg1video mpeg1video_vdpau)
DEV.L. mpeg2video	MPEG-2 video (decoders: mpeg2video mpegvideo mpegvideo_vdpau)
DEV.L. mpeg4	MPEG-4 part 2 (decoders: mpeg4 mpeg4_vdpau) (encoders: mpeg4 libxvid)
D.V.L. mpegvideo_xvmc	MPEG-1/2 video XvMC (X-Video Motion Compensation)
D.V.L. msal	MS ATC Screen
D.V.L. msmpeg4v1	MPEG-4 part 2 Microsoft variant version 1
DEV.L. msmpeg4v2	MPEG-4 part 2 Microsoft variant version 2
DEV.L. msmpeg4v3	MPEG-4 part 2 Microsoft variant version 3 (decoders: msmpeg4) (encoders: msmpeg4)
D.V..S msrle	Microsoft RLE
D.V.L. mss1	MS Screen 1
D.VIL. mss2	MS Windows Media Video V9 Screen
DEV.L. msvideo1	Microsoft Video 1
D.VI.S mszh	LCL (LossLess Codec Library) MSZH
D.V.L. mts2	MS Expression Encoder Screen
D.VIL. mvcl	Silicon Graphics Motion Video Compressor 1
D.VIL. mvc2	Silicon Graphics Motion Video Compressor 2
D.V.L. mxpeg	Mobotix MxPEG video
D.V.L. nuv	NuppelVideo/RTJPEG
D.V.L. paf_video	Amazing Studio Packed Animation File Video
DEVI.S pam	PAM (Portable AnyMap) image
DEVI.S pbm	PBM (Portable BitMap) image
DEVI.S pcx	PC Paintbrush PCX image
DEVI.S pgm	PGM (Portable GrayMap) image
DEVI.S pgmyuv	PGMYUV (Portable GrayMap YUV) image
D.VIL. pictor	Pictor/PC Paint
DEV..S png	PNG (Portable Network Graphics) image
DEVI.S ppm	PPM (Portable PixelMap) image
DEVIL. prores	Apple ProRes (iCodec Pro) (decoders: prores prores_lgpl) (encoders: prores prores_aw prores_ks)
D.VIL. ptx	V.Flash PTX image
D.VI.S qdraw	Apple QuickDraw
D.V.L. qpeg	Q-team QPEG
DEV..S qtrle	QuickTime Animation (RLE) video
DEVI.S r10k	ATA Kona 10-bit RGB Codec

DEVI.S r210	Uncompressed RGB 10-bit
DEVI.S rawvideo	raw video
D.VIL. rl2	RL2 video
DEV.L. roq	id RoQ video (decoders: roqvideo) (encoders: roqvideo)
D.V.L. rpza	QuickTime video (RPZA)
DEV.L. rv10	RealVideo 1.0
DEV.L. rv20	RealVideo 2.0
D.V.L. rv30	RealVideo 3.0
D.V.L. rv40	RealVideo 4.0
D.V.L. sanm	LucasArts SMUSH video
DEVI.S sgi	SGI image
D.VI.S sgirle	SGI RLE 8-bit
D.V.L. smackvideo	Smacker video (decoders: smackvid)
D.V.L. smc	QuickTime Graphics (SMC)
D.V... smv	Sigmatel Motion Video (decoders: smvjpeg)
DEV.LS snow	Snow
D.VIL. sp5x	Sunplus JPEG (SP5X)
DEVI.S sunrast	Sun Rasterfile image
DEV.L. svq1	Sorenson Vector Quantizer 1 / Sorenson Video 1 / SVQ1
D.V.L. svq3	Sorenson Vector Quantizer 3 / Sorenson Video 3 / SVQ3
DEVI.S targa	Truevision Targa image
D.VI.. targa_y216	Pinnacle TARGA CineWave YUV16
D.V.L. tgq	Electronic Arts TGQ video (decoders: eatgq)
D.V.L. tgv	Electronic Arts TGV video (decoders: eatgv)
DEV.L. theora	Theora (encoders: libtheora)
D.VIL. thp	Nintendo Gamecube THP video
D.V.L. tiertexseqvideo	Tiertex Limited SEQ video
DEVI.S tiff	TIFF image
D.VIL. tmv	8088flex TMV
D.V.L. tqi	Electronic Arts TQI video (decoders: eatqi)
D.V.L. truemotion1	Duck TrueMotion 1.0
D.V.L. truemotion2	Duck TrueMotion 2.0
D.V..S tsc2	TechSmith Screen Capture Codec (decoders: camtasia)
D.V.L. tsc2	TechSmith Screen Codec 2
D.VIL. txd	Renderware TXD (TeXture Dictionary) image
D.V.L. ulti	IBM UltiMotion (decoders: ultimotion)
DEVI.S utvideo	Ut Video
DEVI.S v210	Uncompressed 4:2:2 10-bit
D.VI.S v210x	
DEVI.. v308	Uncompressed packed 4:4:4
DEVI.. v408	Uncompressed packed QT 4:4:4:4
DEVI.S v410	Uncompressed 4:4:4 10-bit
D.V.L. vb	Beam Software VB
D.VI.S vble	VBLE Lossless Codec
D.V.L. vc1	SMPTE VC-1 (decoders: vc1 vc1_vdpau)
D.V.L. vc1image	Windows Media Video 9 Image v2
D.VIL. vcrl	ATI VCRL
D.VIL. vixl	Miro VideoXL (decoders: xl)
D.V.L. vmdvideo	Sierra VMD video
D.V..S vmnc	VMware Screen Codec / VMware Video
D.V.L. vp3	On2 VP3
D.V.L. vp5	On2 VP5
D.V.L. vp6	On2 VP6
D.V.L. vp6a	On2 VP6 (Flash version, with alpha channel)
D.V.L. vp6f	On2 VP6 (Flash version)
DEV.L. vp8	On2 VP8 (decoders: vp8 libvpx) (encoders: libvpx)
..V.L. vp9	Google VP9
D.V.L. webp	WebP
DEV.L. wmv1	Windows Media Video 7
DEV.L. wmv2	Windows Media Video 8
D.V.L. wmv3	Windows Media Video 9 (decoders: wmv3 wmv3_vdpau)
D.V.L. wmv3image	Windows Media Video 9 Image
D.VIL. wnv1	Winnov WNV1
D.V.L. ws_vqa	Westwood Studios VQA (Vector Quantized Animation) video (decoders: vqavideo)
D.V.L. xan_wc3	Wing Commander III / Xan

D.V.L. xan_wc4	Wing Commander IV / Xxan
D.VI.. xbin	eXtended BINary text
DEVI.S xbm	XBM (X BitMap) image
DEVIL. xface	X-face image
DEVI.S xwd	XWD (X Window Dump) image
DEVI.. y4lp	Uncompressed YUV 4:1:1 12-bit
D.V.L. yop	Psygnosis YOP Video
DEVI.. yuv4	Uncompressed packed 4:2:0
D.V..S zerocodec	ZeroCodec Lossless Video
DEVI.S zlib	LCL (LossLess Codec Library) ZLIB
DEV..S zmbv	Zip Motion Blocks Video
D.A.L. 8svx_exp	8SVX exponential
D.A.L. 8svx_fib	8SVX fibonacci
DEA.L. aac	AAC (Advanced Audio Coding) (encoders: aac libvo_aacenc)
D.A.L. aac_latm	AAC LATM (Advanced Audio Coding LATM syntax)
DEA.L. ac3	ATSC A/52A (AC-3) (encoders: ac3 ac3_fixed)
D.A.L. adpcm_4xm	ADPCM 4X Movie
DEA.L. adpcm_adx	SEGA CRI ADX ADPCM
D.A.L. adpcm_afc	ADPCM Nintendo Gamecube AFC
D.A.L. adpcm_ct	ADPCM Creative Technology
D.A.L. adpcm_dtk	ADPCM Nintendo Gamecube DTK
D.A.L. adpcm_ea	ADPCM Electronic Arts
D.A.L. adpcm_ea_maxis_xa	ADPCM Electronic Arts Maxis CDROM XA
D.A.L. adpcm_ea_r1	ADPCM Electronic Arts R1
D.A.L. adpcm_ea_r2	ADPCM Electronic Arts R2
D.A.L. adpcm_ea_r3	ADPCM Electronic Arts R3
D.A.L. adpcm_ea_xas	ADPCM Electronic Arts XAS
DEA.L. adpcm_g722	G.722 ADPCM (decoders: g722) (encoders: g722)
DEA.L. adpcm_g726	G.726 ADPCM (decoders: g726) (encoders: g726)
D.A.L. adpcm_ima_amv	ADPCM IMA AMV
D.A.L. adpcm_ima_apc	ADPCM IMA CRYO APC
D.A.L. adpcm_ima_dk3	ADPCM IMA Duck DK3
D.A.L. adpcm_ima_dk4	ADPCM IMA Duck DK4
D.A.L. adpcm_ima_ea_eacs	ADPCM IMA Electronic Arts EACS
D.A.L. adpcm_ima_ea_sead	ADPCM IMA Electronic Arts SEAD
D.A.L. adpcm_ima_iss	ADPCM IMA Funcom ISS
D.A.L. adpcm_ima_oki	ADPCM IMA Dialogic OKI
DEA.L. adpcm_ima_qt	ADPCM IMA QuickTime
D.A.L. adpcm_ima_rad	ADPCM IMA Radical
D.A.L. adpcm_ima_smjpeg	ADPCM IMA Loki SDL MJPEG
DEA.L. adpcm_ima_wav	ADPCM IMA WAV
D.A.L. adpcm_ima_ws	ADPCM IMA Westwood
DEA.L. adpcm_ms	ADPCM Microsoft
D.A.L. adpcm_sbpro_2	ADPCM Sound Blaster Pro 2-bit
D.A.L. adpcm_sbpro_3	ADPCM Sound Blaster Pro 2.6-bit
D.A.L. adpcm_sbpro_4	ADPCM Sound Blaster Pro 4-bit
DEA.L. adpcm_swf	ADPCM Shockwave Flash
D.A.L. adpcm_thp	ADPCM Nintendo Gamecube THP
D.A.L. adpcm_xa	ADPCM CDROM XA
DEA.L. adpcm_yamaha	ADPCM Yamaha
DEA..S alac	ALAC (Apple Lossless Audio Codec)
DEA.L. amr_nb	AMR-NB (Adaptive Multi-Rate NarrowBand) (decoders: amrnb libopencore_amrnb) (encoders: libopencore_amrnb)
D.A.L. amr_wb	AMR-WB (Adaptive Multi-Rate WideBand) (decoders: amrwb libopencore_amrwb)
D.A..S ape	Monkey's Audio
D.A.L. atrac1	Atrac 1 (Adaptive TRansform Acoustic Coding)
D.A.L. atrac3	Atrac 3 (Adaptive TRansform Acoustic Coding 3)
..A.L. atrac3p	Sony ATRAC3+
D.A.L. binkaudio_dct	Bink Audio (DCT)
D.A.L. binkaudio_rdft	Bink Audio (RDFT)
D.A.L. bmv_audio	Discworld II BMV audio
..A.L. celt	Constrained Energy Lapped Transform (CELT)
DEA.L. comfortnoise	RFC 3389 Comfort Noise
D.A.L. cook	Cook / Cooker / Gecko (RealAudio G2)
D.A.L. dsicinaudio	Delphine Software International CIN audio
DEA.L.S dts	DCA (DTS Coherent Acoustics) (decoders: dca) (encoders: dca)
..A.L. dvaudio	

DEA.L. eac3	ATSC A/52B (AC-3, E-AC-3)
D.A.L. evrc	EVRC (Enhanced Variable Rate Codec)
DEA..S flac	FLAC (Free Lossless Audio Codec)
DEA.L. g723_1	G.723.1
D.A.L. g729	G.729
DEA.L. gsm	GSM (decoders: gsm libgsm) (encoders: libgsm)
DEA.L. gsm_ms	GSM Microsoft variant (decoders: gsm_ms libgsm_ms) (encoders: libgsm_ms)
D.A.L. iac	IAC (Indeo Audio Coder)
..A.L. ilbc	iLBC (Internet Low Bitrate Codec)
D.A.L. imc	IMC (Intel Music Coder)
D.A.L. interplay_dpcm	DPCM Interplay
D.A.L. mace3	MACE (Macintosh Audio Compression/Expansion) 3:1
D.A.L. mace6	MACE (Macintosh Audio Compression/Expansion) 6:1
D.A..S mlp	MLP (Meridian Lossless Packing)
D.A.L. mp1	MP1 (MPEG audio layer 1) (decoders: mp1 mp1float)
DEA.L. mp2	MP2 (MPEG audio layer 2) (decoders: mp2 mp2float) (encoders: mp2 libtwolame)
DEA.L. mp3	MP3 (MPEG audio layer 3) (decoders: mp3 mp3float) (encoders: libmp3lame)
D.A.L. mp3adu	ADU (Application Data Unit) MP3 (MPEG audio layer 3) (decoders: mp3adu mp3adufloat)
D.A.L. mp3on4	MP3onMP4 (decoders: mp3on4 mp3on4float)
D.A..S mp4als	MPEG-4 Audio Lossless Coding (ALS) (decoders: als)
D.A.L. musepack7	Musepack SV7 (decoders: mpc7)
D.A.L. musepack8	Musepack SV8 (decoders: mpc8)
DEA.L. nellymoser	Nellymoser Asao
DEA.L. opus	Opus (Opus Interactive Audio Codec) (decoders: libopus) (encoders: libopus)
D.A.L. paf_audio	Amazing Studio Packed Animation File Audio
DEA.L. pcm_alaw	PCM A-law / G.711 A-law
D.A..S pcm_bluray	PCM signed 16 20 24-bit big-endian for Blu-ray media
D.A..S pcm_dvd	PCM signed 20 24-bit big-endian
DEA..S pcm_f32be	PCM 32-bit floating point big-endian
DEA..S pcm_f32le	PCM 32-bit floating point little-endian
DEA..S pcm_f64be	PCM 64-bit floating point big-endian
DEA..S pcm_f64le	PCM 64-bit floating point little-endian
D.A..S pcm_lxf	PCM signed 20-bit little-endian planar
DEA.L. pcm_mulaw	PCM mu-law / G.711 mu-law
DEA..S pcm_s16be	PCM signed 16-bit big-endian
DEA..S pcm_s16be_planar	PCM signed 16-bit big-endian planar
DEA..S pcm_s16le	PCM signed 16-bit little-endian
DEA..S pcm_s16le_planar	PCM signed 16-bit little-endian planar
DEA..S pcm_s24be	PCM signed 24-bit big-endian
DEA..S pcm_s24daud	PCM D-Cinema audio signed 24-bit
DEA..S pcm_s24le	PCM signed 24-bit little-endian
DEA..S pcm_s24le_planar	PCM signed 24-bit little-endian planar
DEA..S pcm_s32be	PCM signed 32-bit big-endian
DEA..S pcm_s32le	PCM signed 32-bit little-endian
DEA..S pcm_s32le_planar	PCM signed 32-bit little-endian planar
DEA..S pcm_s8	PCM signed 8-bit
DEA..S pcm_s8_planar	PCM signed 8-bit planar
DEA..S pcm_u16be	PCM unsigned 16-bit big-endian
DEA..S pcm_u16le	PCM unsigned 16-bit little-endian
DEA..S pcm_u24be	PCM unsigned 24-bit big-endian
DEA..S pcm_u24le	PCM unsigned 24-bit little-endian
DEA..S pcm_u32be	PCM unsigned 32-bit big-endian
DEA..S pcm_u32le	PCM unsigned 32-bit little-endian
DEA..S pcm_u8	PCM unsigned 8-bit
D.A.L. pcm_zork	PCM Zork
D.A.L. qcelp	QCELP / PureVoice
D.A.L. qdm2	QDesign Music Codec 2
..A.L. qdmc	QDesign Music
DEA.L. ra_144	RealAudio 1.0 (14.4K) (decoders: real_144) (encoders: real_144)
D.A.L. ra_288	RealAudio 2.0 (28.8K) (decoders: real_288)
D.A..S ralf	RealAudio Lossless
DEA.L. roq_dpcm	DPCM id RoQ
DEA..S s302m	SMPTE 302M
D.A..S shorten	Shorten
D.A.L. sipr	RealAudio SIPR / ACELP.NET

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D.A.L. smackaudio      smacker audio (decoders: smackaud )
..A.L. smv              SMV (Selectable Mode Vocoder)
D.A.L. sol_dpcm         DPCM Sol
DEA... sonic            Sonic
.EA... sonicls          Sonic lossless
DEA.L. speex            Speex (decoders: libspeex ) (encoders: libspeex )
D.A..S tak              TAK (Tom's lossless Audio Kompressor)
D.A..S truehd           TrueHD
D.A.L. truespeech       DSP Group TrueSpeech
DEA..S tta              TTA (True Audio)
D.A.L. twinvg           VQF TwinVQ
D.A.L. vima             LucasArts VIMA audio
D.A.L. vmdaudio         Sierra VMD audio
DEA.L. vorbis           Vorbis (decoders: vorbis libvorbis ) (encoders: vorbis libvorbis )
..A.L. voxware          Voxware RT29 Metasound
D.A... wavesynth       Wave synthesis pseudo-codec
D.A.LS wavpack          WavPack
D.A.L. westwood_snd1    Westwood Audio (SND1) (decoders: ws_snd1 )
D.A..S wmalossless      Windows Media Audio Lossless
D.A.L. wmapro           Windows Media Audio 9 Professional
DEA.L. wmaV1            Windows Media Audio 1
DEA.L. wmaV2            Windows Media Audio 2
D.A.L. wmavoice         Windows Media Audio Voice
D.A.L. xan_dpcm         DPCM Xan
..D... dvd_nav_packet   DVD Nav packet
..D... klv              SMPTE 336M Key-Length-Value (KLV) metadata
DES... ass              ASS (Advanced SSA) subtitle
DES... dvb_subtitle     DVB subtitles (decoders: dvbsub ) (encoders: dvbsub )
..S... dvb_teletext     DVB teletext
DES... dvd_subtitle     DVD subtitles (decoders: dvdsup ) (encoders: dvdsup )
..S... eia_608           EIA-608 closed captions
D.S... hdmv_pgs_subtitle HDMV Presentation Graphic Stream subtitles (decoders: pgssub )
D.S... jacosub          JACosub subtitle
D.S... microdvd         MicroDVD subtitle
DES... mov_text         MOV text
D.S... mpl2             MPL2 subtitle
D.S... pjs              PJS (Phoenix Japanimation Society) subtitle
D.S... realtext         RealText subtitle
D.S... sami             SAMI subtitle
DES... srt              SubRip subtitle with embedded timing
DES... ssa              SSA (SubStation Alpha) subtitle
DES... subrip           SubRip subtitle
D.S... subviewer        SubViewer subtitle
D.S... subviewer1       SubViewer v1 subtitle
D.S... text             raw UTF-8 text
D.S... vplayer          VPlayer subtitle
D.S... webvtt           WebVTT subtitle
DES... xsub             XSUB

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all ffmpeg codecs that are supported

Codecs:

```

D..... = Decoding supported
.E.... = Encoding supported
..V... = Video codec
..A... = Audio codec
..S... = Subtitle codec
...S... = Supports draw_horiz_band
....D. = Supports direct rendering method 1
.....T = Supports weird frame truncation
-----
D V D 4xm          4X Movie
D V D 8bps         QuickTime 8BPS video
D A 8svx_exp       8SVX exponential

```

D A	8svx_fib	8SVX fibonacci
D A	8svx_raw	8SVX rawaudio
EV	a64multi	Multicolor charset for Commodore 64
EV	a64multi5	Multicolor charset for Commodore 64, extended with 5th color (colram)
DEA	aac	Advanced Audio Coding
D A	aac_latm	AAC LATM (Advanced Audio Codec LATM syntax)
D V D	aasc	Autodesk RLE
DEA	ac3	ATSC A/52A (AC-3)
EA	ac3_fixed	ATSC A/52A (AC-3)
D A	adpcm_4xm	ADPCM 4X Movie
DEA	adpcm_adx	SEGA CRI ADX ADPCM
D A	adpcm_ct	ADPCM Creative Technology
D A	adpcm_ea	ADPCM Electronic Arts
D A	adpcm_ea_maxis_xa	ADPCM Electronic Arts Maxis CDROM XA
D A	adpcm_ea_r1	ADPCM Electronic Arts R1
D A	adpcm_ea_r2	ADPCM Electronic Arts R2
D A	adpcm_ea_r3	ADPCM Electronic Arts R3
D A	adpcm_ea_xas	ADPCM Electronic Arts XAS
D A	adpcm_ima_amv	ADPCM IMA AMV
D A	adpcm_ima_dk3	ADPCM IMA Duck DK3
D A	adpcm_ima_dk4	ADPCM IMA Duck DK4
D A	adpcm_ima_ea_eacs	ADPCM IMA Electronic Arts EACS
D A	adpcm_ima_ea_sead	ADPCM IMA Electronic Arts SEAD
D A	adpcm_ima_iss	ADPCM IMA Funcom ISS
DEA	adpcm_ima_gt	ADPCM IMA QuickTime
D A	adpcm_ima_smjpeg	ADPCM IMA Loki SDL MJPEG
DEA	adpcm_ima_wav	ADPCM IMA WAV
D A	adpcm_ima_ws	ADPCM IMA Westwood
DEA	adpcm_ms	ADPCM Microsoft
D A	adpcm_sbpro_2	ADPCM Sound Blaster Pro 2-bit
D A	adpcm_sbpro_3	ADPCM Sound Blaster Pro 2.6-bit
D A	adpcm_sbpro_4	ADPCM Sound Blaster Pro 4-bit
DEA	adpcm_swf	ADPCM Shockwave Flash
D A	adpcm_thp	ADPCM Nintendo Gamecube THP
D A	adpcm_xa	ADPCM CDROM XA
DEA	adpcm_yamaha	ADPCM Yamaha
DEA	alac	ALAC (Apple Lossless Audio Codec)
D A	als	MPEG-4 Audio Lossless Coding (ALS)
D A	amrnb	Adaptive Multi-Rate NarrowBand
D A	amrwb	Adaptive Multi-Rate WideBand
D V	amv	AMV Video
D V D	anm	Deluxe Paint Animation
D V D	ansi	ASCII/ANSI art
D A	ape	Monkey's Audio
DES	ass	Advanced SubStation Alpha subtitle
DEV D	asv1	ASUS V1
DEV D	asv2	ASUS V2
D A	atrac1	Atrac 1 (Adaptive TRansform Acoustic Coding)
D A	atrac3	Atrac 3 (Adaptive TRansform Acoustic Coding 3)
D V D	aura	Auravision AURA
D V D	aura2	Auravision Aura 2
D V D	avs	AVS (Audio Video Standard) video
D V D	bethsoftvid	Bethesda VID video
D V D	bfi	Brute Force & Ignorance
D A	binkaudio_dct	Bink Audio (DCT)
D A	binkaudio_rdft	Bink Audio (RDFT)
D V	binkvideo	Bink video
DEV D	bmp	BMP image
D V D	c93	Interplay C93
D V D	camstudio	CamStudio
D V D	camtasia	TechSmith Screen Capture Codec
D V D	cavs	Chinese AVS video (AVS1-P2, JiZhun profile)
D V D	cdgraphics	CD Graphics video
D V D	cinepak	Cinepak
D V D	cljr	Cirrus Logic AccuPak

D A	cook	COOK
D V D	cyuv	Creative YUV (CYUV)
DEA	dca	
D V D	dfa	Chronomaster DFA
DEV D	dnxhd	VC3/DNxHD
DEV	dpx	DPX image
D A	dsicinaudio	Delphine Software International CIN audio
D V D	dsicinvideo	Delphine Software International CIN video
DES	dvbsub	DVB subtitles
DES	dvdsup	DVD subtitles
DEV D	dvvideo	DV (Digital Video)
D V D	dxa	Feeble Files/ScummVM DXA
DEA	eac3	ATSC A/52 E-AC-3
D V D	eacmv	Electronic Arts CMV video
D V D	eamad	Electronic Arts Madcow Video
D V D	eatgq	Electronic Arts TGQ video
D V	eatgv	Electronic Arts TGV video
D V D	eatqi	Electronic Arts TQI Video
D V D	escape124	Escape 124
DEV D	ffv1	FFmpeg video codec #1
DEVSD	ffvhuff	Huffyuv FFmpeg variant
DEA	flac	FLAC (Free Lossless Audio Codec)
DEV D	flashsv	Flash Screen Video
EV	flashsv2	Flash Screen Video Version 2
D V D	flic	Autodesk Animator Flic video
DEVSD	flv	Flash Video (FLV) / Sorenson Spark / Sorenson H.263
D V D	fraps	Fraps
D V D	frwu	Forward Uncompressed
DEA	g722	G.722 ADPCM
DEA	g726	G.726 ADPCM
DEV D	gif	GIF (Graphics Interchange Format)
D A	gsm	GSM
D A	gsm_ms	GSM Microsoft variant
DEV D	h261	H.261
DEVSDT	h263	H.263 / H.263-1996
D VSD	h263i	Intel H.263
EV	h263p	H.263+ / H.263-1998 / H.263 version 2
D V D	h264	H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
D V D	h264_vdpau	H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10 (VDPau acceleration)
DEVSD	huffyuv	Huffyuv / HuffYUV
D V D	idcinvideo	id Quake II CIN video
D V D	iff_byterun1	IFF ByteRun1
D V D	iff_ilbm	IFF ILBM
D A	imc	IMC (Intel Music Coder)
D V D	indeo2	Intel Indeo 2
D V D	indeo3	Intel Indeo 3
D V	indeo5	Intel Indeo Video Interactive 5
D A	interplay_dpcm	DPCM Interplay
D V D	interplayvideo	Interplay MVE video
D V	j2k	
DEV D	jpegl	JPEG-LS
D V D	kv	Bitmap Brothers KV video
D V	kgv1	Kega Game Video
D V D	kmvc	Karl Morton's video codec
D V D	lagarith	Lagarith lossless
EV	libdirac	libdirac Dirac 2.2
DEA	libgsm	libgsm GSM
DEA	libgsm_ms	libgsm GSM Microsoft variant
EA	libmp3lame	libmp3lame MP3 (MPEG audio layer 3)
DEA	libopencore_amrnb	OpenCORE Adaptive Multi-Rate (AMR) Narrow-Band
D A	libopencore_amrwb	OpenCORE Adaptive Multi-Rate (AMR) Wide-Band
DEV	libschroedinger	libschroedinger Dirac 2.2
DEA	libspeex	libspeex Speex Encoder
EV	libtheora	libtheora Theora
EA	libvorbis	libvorbis Vorbis
DEV	libvpx	libvpx VP8

EV	libx264	libx264 H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
EV	libxvid	libxvidcore MPEG-4 part 2
EV	ljpeg	Lossless JPEG
D V D	loco	LOCO
D A	mace3	MACE (Macintosh Audio Compression/Expansion) 3:1
D A	mace6	MACE (Macintosh Audio Compression/Expansion) 6:1
D V D	mdec	Sony PlayStation MDEC (Motion DECoder)
D V D	mimic	Mimic
DEV D	mjpeg	MJPEG (Motion JPEG)
D V D	mjpegb	Apple MJPEG-B
D A	mlp	MLP (Meridian Lossless Packing)
D V D	mmvideo	American Laser Games MM Video
D V D	motionpixels	Motion Pixels video
D A	mp1	MP1 (MPEG audio layer 1)
D A	mp1float	MP1 (MPEG audio layer 1)
DEA	mp2	MP2 (MPEG audio layer 2)
D A	mp2float	MP2 (MPEG audio layer 2)
D A	mp3	MP3 (MPEG audio layer 3)
D A	mp3adu	ADU (Application Data Unit) MP3 (MPEG audio layer 3)
D A	mp3adufloat	ADU (Application Data Unit) MP3 (MPEG audio layer 3)
D A	mp3float	MP3 (MPEG audio layer 3)
D A	mp3on4	MP3onMP4
D A	mp3on4float	MP3onMP4
D A	mpc7	Musepack SV7
D A	mpc8	Musepack SV8
DEVSDT	mpeg1video	MPEG-1 video
D V DT	mpeg1video_vdpau	MPEG-1 video (VDPau acceleration)
DEVSDT	mpeg2video	MPEG-2 video
DEVSDT	mpeg4	MPEG-4 part 2
D V DT	mpeg4_vdpau	MPEG-4 part 2 (VDPau)
D VSDT	mpegvideo	MPEG-1 video
D V DT	mpegvideo_vdpau	MPEG-1/2 video (VDPau acceleration)
D VSDT	mpegvideo_xvmc	MPEG-1/2 video XvMC (X-Video Motion Compensation)
DEVSD	msmpeg4	MPEG-4 part 2 Microsoft variant version 3
D VSD	msmpeg4v1	MPEG-4 part 2 Microsoft variant version 1
DEVSD	msmpeg4v2	MPEG-4 part 2 Microsoft variant version 2
D V D	msrle	Microsoft RLE
DEV D	msvideo1	Microsoft Video-1
D V D	mszh	LCL (LossLess Codec Library) MSZH
D V D	mxpeg	Mobotix MxPEG video
DEA	nellymoser	Nellymoser Asao
D V D	nuv	NuppelVideo/RTJPEG
DEV D	pam	PAM (Portable AnyMap) image
DEV D	pbm	PBM (Portable BitMap) image
DEA	pcm_alaw	PCM A-law
D A	pcm_bluray	PCM signed 16 20 24-bit big-endian for Blu-ray media
D A	pcm_dvd	PCM signed 20 24-bit big-endian
DEA	pcm_f32be	PCM 32-bit floating point big-endian
DEA	pcm_f32le	PCM 32-bit floating point little-endian
DEA	pcm_f64be	PCM 64-bit floating point big-endian
DEA	pcm_f64le	PCM 64-bit floating point little-endian
D A	pcm_lxf	PCM signed 20-bit little-endian planar
DEA	pcm_mulaw	PCM mu-law
DEA	pcm_s16be	PCM signed 16-bit big-endian
DEA	pcm_s16le	PCM signed 16-bit little-endian
D A	pcm_s16le_planar	PCM 16-bit little-endian planar
DEA	pcm_s24be	PCM signed 24-bit big-endian
DEA	pcm_s24daud	PCM D-Cinema audio signed 24-bit
DEA	pcm_s24le	PCM signed 24-bit little-endian
DEA	pcm_s32be	PCM signed 32-bit big-endian
DEA	pcm_s32le	PCM signed 32-bit little-endian
DEA	pcm_s8	PCM signed 8-bit
DEA	pcm_u16be	PCM unsigned 16-bit big-endian
DEA	pcm_u16le	PCM unsigned 16-bit little-endian
DEA	pcm_u24be	PCM unsigned 24-bit big-endian
DEA	pcm_u24le	PCM unsigned 24-bit little-endian

DEA	pcm_u24le	PCM unsigned 24-bit little-endian
DEA	pcm_u32be	PCM unsigned 32-bit big-endian
DEA	pcm_u32le	PCM unsigned 32-bit little-endian
DEA	pcm_u8	PCM unsigned 8-bit
DEA	pcm_zork	PCM Zork
DEV D	pcx	PC Paintbrush PCX image
DEV D	pgm	PGM (Portable GrayMap) image
DEV D	pgmyuv	PGMYUV (Portable GrayMap YUV) image
D S	pgssub	HDMV Presentation Graphic Stream subtitles
D V D	pictor	Pictor/PC Paint
DEV D	png	PNG image
DEV D	ppm	PPM (Portable PixelMap) image
D V D	ptx	V.Flash PTX image
D A	qcelp	QCELP / PureVoice
D A	qdm2	QDesign Music Codec 2
D V D	qdraw	Apple QuickDraw
D V D	qpeg	Q-team QPEG
DEV D	qtrle	QuickTime Animation (RLE) video
D V D	r10k	AJA Kona 10-bit RGB Codec
D V D	r210	Uncompressed RGB 10-bit
DEV	rawvideo	raw video
DEA	real_144	RealAudio 1.0 (14.4K) encoder
D A	real_288	RealAudio 2.0 (28.8K)
D V D	rl2	RL2 video
DEA	roq_dpcm	id RoQ DPCM
DEV D	roqvideo	id RoQ video
D V D	rpza	QuickTime video (RPZA)
DEV D	rv10	RealVideo 1.0
DEV D	rv20	RealVideo 2.0
D V D	rv30	RealVideo 3.0
D V D	rv40	RealVideo 4.0
D A	s302m	SMPTE 302M
DEV	sgi	SGI image
D A	shorten	Shorten
D A	sipr	RealAudio SIPR / ACELP.NET
D A	smackaud	Smacker audio
D V D	smackvid	Smacker video
D V D	smc	QuickTime Graphics (SMC)
DEV D	snow	Snow
D A	sol_dpcm	DPCM Sol
DEA	sonic	Sonic
EA	sonicls	Sonic lossless
D V D	sp5x	Sunplus JPEG (SP5X)
DES	srt	SubRip subtitle
D V D	sunrast	Sun Rasterfile image
DEV D	svq1	Sorenson Vector Quantizer 1 / Sorenson Video 1 / SVQ1
D VSD	svq3	Sorenson Vector Quantizer 3 / Sorenson Video 3 / SVQ3
DEV D	targa	Truevision Targa image
D VSD	theora	Theora
D V D	thp	Nintendo Gamecube THP video
D V D	tiertexseqvideo	Tiertex Limited SEQ video
DEV D	tiff	TIFF image
D V D	tmv	8088flex TMV
D A	truehd	TrueHD
D V D	truemotion1	Duck TrueMotion 1.0
D V D	truemotion2	Duck TrueMotion 2.0
D A	truespeech	DSP Group TrueSpeech
D A	tta	True Audio (TTA)
D A	twinvq	VQF TwinVQ
D V D	txd	Renderware TXD (TeXture Dictionary) image
D V D	ultimotion	IBM UltiMotion
DEV D	v210	Uncompressed 4:2:2 10-bit
D V D	v210x	Uncompressed 4:2:2 10-bit
D V	vb	Beam Software VB
D V D	vc1	SMPTE VC-1
D V D	vc1_vdpau	SMPTE VC-1 VDPau

D V D	vcrl	ATI VCRL
D A	vmdataudio	Sierra VMD audio
D V D	vmdataudio	Sierra VMD video
D V D	vmnc	VMware Screen Codec / VMware Video
DEA	vorbis	Vorbis
D VSD	vp3	On2 VP3
D V D	vp5	On2 VP5
D V D	vp6	On2 VP6
D V D	vp6a	On2 VP6 (Flash version, with alpha channel)
D V D	vp6f	On2 VP6 (Flash version)
D V D	vp8	On2 VP8
D V D	vqavideo	Westwood Studios VQA (Vector Quantized Animation) video
D A	wavpack	WavPack
D A	wmapro	Windows Media Audio 9 Professional
DEA	wmav1	Windows Media Audio 1
DEA	wmav2	Windows Media Audio 2
D A	wmavoice	Windows Media Audio Voice
DEVSD	wmv1	Windows Media Video 7
DEVSD	wmv2	Windows Media Video 8
D V D	wmv3	Windows Media Video 9
D V D	wmv3_vdpau	Windows Media Video 9 VDPau
D V D	wnv1	Winnov WNV1
D A	ws_snd1	Westwood Audio (SND1)
D A	xan_dpcm	DPCM Xan
D V D	xan_wc3	Wing Commander III / Xan
D V D	xan_wc4	Wing Commander IV / Xxan
D V D	x1	Miro VideoXL
DES	xsub	DivX subtitles (XSUB)
D V	yop	Psygnosis YOP Video
DEV D	zlib	LCL (LossLess Codec Library) ZLIB
DEV D	zmbv	Zip Motion Blocks Video

Note, the names of encoders and decoders do not always match, so there are several cases where the above table shows encoder only or decoder only entries even though both encoding and decoding are supported. For example, the h263 decoder corresponds to the h263 and h263p encoders, for file formats it is even worse.

Ffmpeg file (container) formats that are supported

```
File formats:
D. = Demuxing supported
.E = Muxing supported
--
E 3g2          3GP2 format
E 3gp          3GP format
D 4xm          4X Technologies format
D IFF          IFF format
D ISS          Funcom ISS format
D MTV          MTV format
DE RoQ         raw id RoQ format
E a64          a64 - video for Commodore 64
D aac          raw ADTS AAC
DE ac3         raw AC-3
E adts         ADTS AAC
D aea          MD STUDIO audio
DE aiff        Audio IFF
DE alaw        PCM A-law format
DE alsa        ALSA audio output
DE amr         3GPP AMR file format
D anm          Deluxe Paint Animation
D apc          CRYO APC format
D ape          Monkey's Audio
```


D applehttp	Apple HTTP Live Streaming format
DE asf	ASF format
E asf_stream	ASF format
DE ass	Advanced SubStation Alpha subtitle format
DE au	SUN AU format
DE avi	AVI format
E avm2	Flash 9 (AVM2) format
D avs	AVS format
D bethsoftvid	Bethesda Softworks VID format
D bfi	Brute Force & Ignorance
D bink	Bink
D c93	Interplay C93
DE caf	Apple Core Audio Format
DE cavsvideo	raw Chinese AVS video
D cdg	CD Graphics Format
E crc	CRC testing format
DE daud	D-Cinema audio format
D dfa	Chronomaster DFA
DE dirac	raw Dirac
DE dnxhd	raw DNxHD (SMPTE VC-3)
D dsicin	Delphine Software International CIN format
DE dts	raw DTS
DE dv	DV video format
D dv1394	DV1394 A/V grab
E dvd	MPEG-2 PS format (DVD VOB)
D dxa	DXA
D ea	Electronic Arts Multimedia Format
D ea_cdata	Electronic Arts cdata
DE eac3	raw E-AC-3
DE f32be	PCM 32 bit floating-point big-endian format
DE f32le	PCM 32 bit floating-point little-endian format
DE f64be	PCM 64 bit floating-point big-endian format
DE f64le	PCM 64 bit floating-point little-endian format
D fbdev	Linux framebuffer
DE ffm	FFM (FFserver live feed) format
DE ffmmetadata	FFmpeg metadata in text format
D film_cpk	Sega FILM/CPK format
DE filmstrip	Adobe Filmstrip
DE flac	raw FLAC
D flic	FLI/FLC/FLX animation format
DE flv	FLV format
E framecrc	framecrc testing format
E framemd5	Per-frame MD5 testing format
DE g722	raw G.722
E gif	GIF Animation
D gsm	raw GSM
DE gxf	GXF format
DE h261	raw H.261
DE h263	raw H.263
DE h264	raw H.264 video format
D idcin	id Cinematic format
DE image2	image2 sequence
DE image2pipe	pipelined image2 sequence
D ingenient	raw Ingenient MJPEG
D ipmovie	Interplay MVE format
E ipod	iPod H.264 MP4 format
D iv8	A format generated by IndigoVision 8000 video server
DE ivf	On2 IVF
D jack	JACK Audio Connection Kit
D jv	Bitmap Brothers JV
D libdc1394	dc1394 A/V grab
D lmlm4	lmlm4 raw format
D lxf	VR native stream format (LXF)
DE m4v	raw MPEG-4 video format
E matroska	Matroska file format

D matroska,webm	Matroska/webm file format
E md5	MD5 testing format
DE microdvd	MicroDVD subtitle format
DE mjpeg	raw MJPEG video
DE mlp	raw MLP
D mm	American Laser Games MM format
DE mmf	Yamaha SMAF
E mov	MOV format
D mov,mp4,m4a,3gp,3g2,mj2	QuickTime/MPEG-4/Motion JPEG 2000 format
E mp2	MPEG audio layer 2
DE mp3	MPEG audio layer 3
E mp4	MP4 format
D mpc	Musepack
D mpc8	Musepack SV8
DE mpeg	MPEG-1 System format
E mpeg1video	raw MPEG-1 video
E mpeg2video	raw MPEG-2 video
DE mpegts	MPEG-2 transport stream format
D mpegtsraw	MPEG-2 raw transport stream format
D mpegvideo	raw MPEG video
E mpjpeg	MIME multipart JPEG format
D msnwctcp	MSN TCP Webcam stream
DE mulaw	PCM mu-law format
D mvi	Motion Pixels MVI format
DE mxf	Material eXchange Format
E mxf_d10	Material eXchange Format, D-10 Mapping
D mxg	MxPEG clip file format
D nc	NC camera feed format
D nsv	Nullsoft Streaming Video
E null	raw null video format
DE nut	NUT format
D nuv	NuppelVideo format
DE ogg	Ogg
D oma	Sony OpenMG audio
DE oss	Open Sound System playback
D pmp	Playstation Portable PMP format
E psp	PSP MP4 format
D psxstr	Sony Playstation STR format
D pva	TechnoTrend PVA file and stream format
D qcp	QCP format
D r3d	REDCODE R3D format
DE rawvideo	raw video format
E rcv	VC-1 test bitstream
D rl2	RL2 format
DE rm	RealMedia format
D rpl	RPL/ARMovie format
DE rso	Lego Mindstorms RSO format
DE rtp	RTP output format
DE rtsp	RTSP output format
DE s16be	PCM signed 16 bit big-endian format
DE s16le	PCM signed 16 bit little-endian format
DE s24be	PCM signed 24 bit big-endian format
DE s24le	PCM signed 24 bit little-endian format
DE s32be	PCM signed 32 bit big-endian format
DE s32le	PCM signed 32 bit little-endian format
DE s8	PCM signed 8 bit format
DE sap	SAP output format
E sdl	SDL output device
D sdp	SDP
D shn	raw Shorten
D siff	Beam Software SIFF
D smk	Smacker video
D sol	Sierra SOL format
DE sox	SoX native format
DE spdif	IEC 61937 (used on S/PDIF - IEC958)
DE srt	SubRip subtitle format

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E svcd      MPEG-2 PS format (VOB)
DE swf      Flash format
D thp       THP
D tiertexseq Tiertex Limited SEQ format
D tmv       8088flex TMV
DE truehd   raw TrueHD
D tta       True Audio
D tty       Tele-typewriter
D txd       Renderware TeXture Dictionary
DE ul6be    PCM unsigned 16 bit big-endian format
DE ul6le    PCM unsigned 16 bit little-endian format
DE u24be    PCM unsigned 24 bit big-endian format
DE u24le    PCM unsigned 24 bit little-endian format
DE u32be    PCM unsigned 32 bit big-endian format
DE u32le    PCM unsigned 32 bit little-endian format
DE u8       PCM unsigned 8 bit format
D vc1       raw VC-1
D vc1test   VC-1 test bitstream format
  E vcd      MPEG-1 System format (VCD)
D video4linux2 Video4Linux2 device grab
D vmd       Sierra VMD format
  E vob      MPEG-2 PS format (VOB)
DE voc      Creative Voice file format
D vqf       Nippon Telegraph and Telephone Corporation (NTT) TwinVQ
D w64       Sony Wave64 format
DE wav      WAV format
D wc3movie  Wing Commander III movie format
  E webm     WebM file format
D wsaud     Westwood Studios audio format
D wsvqa     Westwood Studios VQA format
D wtv       Windows Television (WTV)
D wv        WavPack
D x11grab   X11grab
D xa        Maxis XA File Format
D xwma      Microsoft xWMA
D yop       Psygnosis YOP Format
DE yuv4mpegpipe YUV4MPEG pipe format

```

Channel name	Identifier	Index	Flag	1.0 Mono<ref group="Note">For historical reasons, when using (1.0) mono sound, often in technical implementations the first (left) channel is used, instead of the center speaker channel, in many other cases when playing back multichannel content on a device with a mono speaker configuration all channels are downmixed into	2.0 Stereo<ref group="Note">Stereo (2.0) is still the most common format for music, as most computers, television sets and portable audio players only feature two speakers, and the red book Audio CD standard used for retail distribution of music only allows for 2 channels. A 2.1 speaker set does generally not have a separate physical channel for the low frequency effects, as the speaker set	3.0 Stereo	3.0 Surround	4.0 Quad	4.0 Surround	5.0	5.0 Side<ref name="DTS" group="Note">THX 5.1 Surround Sound Speaker set-up. This is the correct speaker placement for 5.0/6.0/7.0 channel sound reproduction for Dolby and Digital Theater Systems.	6.0	6.0 Side<ref name="DTS" group="Note" />	7.0	7.0 Side<ref group="Note">Template:Cite web</ref>	7.0 Surround<ref name="DTS" group="Note" />
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				<div>one channel. The way standard mono and stereo plugs used for common audio devices are designed ensures this as well.</ref></div>	<div>downmixes the low frequency components of the two stereo channels into one channel for the subwoofer.</ref></div>						</ref>						
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