

FFMPEG

and FFPLay

ffmpeg has many uses, and one area that is very useful for us is to be able to extract from either SPTS or MPTS transport stream (.ts) files to .mp4. There are a lot more players that can handle .mp4, and when testing UHD streams, most TVs will play .mp4 from a memory stick, not many will handle .ts (especially if it's MPTS).

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Chris Duxbury has worked out a simple syntax we can use to extract our .ts files to .mp4 files (.mp4 is a valid container for both h.264 and HEVC streams).

FFPROBE

FFPROBE allows the inspection of a file for some basic information. ffprobe is useful to analyse a .ts file before extraction to see what streams are present, the PIDs etc.

```
ffprobe filename.ts
Input #0, mpegts, from 'AVP4000_HEVC_SDR.ts':
  Duration: 00:01:01.45, start: 63552.709811, bitrate: 24918 kb/s
    Program 1
      Metadata:
        service_name      : AVPUHD
        service_provider: Ericsson
      Stream #0:0[0x3e9]: Video: hevc (Main 10) ([36][0][0][0] / 0x0024), yuv420p1
      0le(tv, bt709), 3840x2160 [SAR 1:1 DAR 16:9], 50 fps, 50 tbr, 90k tbn, 50 tbc
      Stream #0:1[0x7d1](eng): Audio: mp2 ([3][0][0][0] / 0x0003), 48000 Hz, stereo, s16p, 192 kb/s
```

In the above example we can see the following:

Duration: 00:01:01.45, start: 63552.709811, bitrate: 24918 kb/s The **Program 1**

The **service_name** is AVPUHD

The **service_provider** is Ericsson

The **Stream #0:0[0x3e9] 0x3E9 is Dec 1001** is Video: hevc (Main 10) ([36][0][0][0] / 0x0024), yuv420p1

The **Stream #0:1[0x7d1](eng) 0x7d1 is Dec 2001** is Audio: mp2 ([3][0][0][0] / 0x0003), 48000 Hz, stereo, s16p, 192 kb/s.

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