

x265 encoding

Metadata tag

Some players rely on metadata to identify if the contents of the file can be used (i.e.: QT)

```
-tag:v hvc1
```

Performance

FFmpeg supports following presets: ultrafast, superfast, veryfast, faster, fast, medium, slow, slower, veryslow, and placebo

According to:

- [The `fast` preset](#)
- [FFmpeg preset comparison x265 2019; Encode speed and file size](#)

and own fast tests:

```
* veryslow: encoded 140 frames in 130.17s ( 1.08 fps), 1424.91 kb/s, Avg QP:27.02
* slower:   encoded 140 frames in  66.19s ( 2.12 fps), 1412.11 kb/s, Avg QP:26.91
* slow:     encoded 140 frames in  20.36s ( 6.88 fps), 1448.34 kb/s, Avg QP:26.61
* medium:   encoded 140 frames in   9.44s (14.83 fps), 1260.54 kb/s, Avg QP:26.68
* fast:     encoded 140 frames in   6.13s (22.82 fps), 1244.63 kb/s, Avg QP:26.71
* faster:   encoded 140 frames in   5.02s (27.87 fps), 1221.05 kb/s, Avg QP:26.76
```

The default medium is enough (or even fast).

Ryzen 7

Preset: veryslow Ryzen 7 8c/16t

threads	time
auto (16)	103.05s (1.83fps)
12	103.76s (1.82fps)
20	103.93s (1.82fps)
8	107.09s (1.76fps)

threads	time
6	136.09s (1.39fpc)

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