

NAME

make_prores - Generate a ProRes 422 or ProRes 4444 file

SYNOPSIS

```
make_prores -i input_path -o output_file
make_prores (-h|-x)
```

DESCRIPTION

Bash AVpres is a collection of Bash script for audiovisual preservation. One of these small programs is **make_prores**. It encodes a ProRes stream of a video file or a folder containing single images and muxes it into a Matroska (.mkv), QuickTime (.mov) or Material eXchange Format container (.mxf).

OPTIONS**BASIC OPTIONS**

-i *input_path*, **--input=***input_path*
input file if stream-based content, or input folder if single-image-based content

When a folder is passed, the script extracts the regular expressions ("regex") for processing all the files and determines the actual number of the first frame. The naming must follow one of the two formats:

```
path/to/filename_digits.extension
path/to/digits.extension
```

where *digits* is the numbering, which must be either alone or at the end of the filename, divided by an underscore from the rest of the filename and by a period from the extension (the filename can contain other underscore signs). The numbering can start at any number, but all successive frames must be present, from the beginning to the end of the interval.

-o *output_file*, **--output=***output_file*
output file

ADVANCED OPTIONS

The default arguments of the advanced options can be overwritten by the user. Note that any string containing spaces must be quoted. To cancel a default argument use:

```
--<option>=' #'
```

--ff_glo_opt='y'
A possibly already existing output file is overwritten.

The following two input file default parameters are used only when single-image-based content is provided:

--f='image2'
Probably this parameter should never be modified. It forces the use of the image file demuxer for the input.

--framerate='24'
The default frame rate is 25. Silent films or amateur films have often a different projection speed than the standardised 24 frames per second of sound films, for example 18.

Video codec options with their default parameters:

--filter_v=""
This can be used, for example, to provide a scaling and/or a padding video filter.

--c_v='prores_ks'
FFmpeg comes with two different ProRes encoders: 'prores' and 'prores_ks'. Both have been reverse engineered, because Apple is unwilling to disclose its ProRes 4444 and 422 format families.

--profile_v='3'
The possible values are:

```
5 = ProRes 4444 XQ
4 = ProRes 4444
3 = ProRes 422 HQ
```

```
2 = ProRes 422
1 = ProRes 422 LT
0 = ProRes 422 Proxy
```

Audio codec options with their default parameters:

--filter_a="

This can be used to provide audio filters.

--c_a='copy'

If no sound stream is present, then the **ffmpeg** parameter '-an' is used instead.

Output file default parameters:

--suffix='_ProRes'

The suffix is inserted at the end of the filename, immediately before the period and the extension. Note that a preceding underscore, if wished, must be added.

--extension='mkv'

Possible containers are Quicktime ('mov') and Matroska ('mkv'), while sadly Material eXchange Format ('mxf') is not working yet in **FFmpeg**.

INFORMATIVE OPTIONS

-h, --help

display a help message

-x, --options

display the advanced options with their default arguments

NOTES

Temporary log files are stored at:

```
/tmp/AVpres/make_prores.XXXXXXXXXX
```

The log files can be used for debugging, for example by running **cat** on the address prompted with fatal error messages:

```
cat /tmp/AVpres/make_prores.XXXXXXXXXX
```

SEE ALSO

FFmpeg Cookbook for Archivists, entry "Video into ProRes"

https://avpres.net/FFmpeg/im_ProRes.html

FFmpeg Cookbook for Archivists, entry "Image sequence into ProRes"

https://avpres.net/FFmpeg/sq_ProRes.html

make_ffv1(1) and **make_h264(1)**.

ffmpeg(1) and **ffprobe(1)**.

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