

NAME

verify_framemd5 - Verify a frame MD5 checksum manifest of an audio-visual file or single-image files in a folder

SYNOPSIS

verify_framemd5 -i *input_path* [**-m** *manifest_file*]

verify_framemd5 -h | -x

DESCRIPTION

Bash AVpres is a collection of Bash scripts for audio-visual preservation. One of these small programs is **verify_framemd5**. It verifies a frame MD5 checksum manifest of an audio-visual file or single-image files in a folder.

Bash version 3.2 or later is strongly recommended. We advise to use the current version 5.2.

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. This can be verified by using the **missing_files** script.

-m *manifest_file*, **--manifest=***output_file*

path to the manifest

If this parameter is not passed, then the script uses:

<input_path><suffix>.<extension>

ADVANCED OPTIONS

The default arguments of the advanced options can be overwritten by the user.

--ffmpeg='/bin/ffmpeg'

path to the **ffmpeg** command

--ffprobe='/bin/ffprobe'

path to the **ffprobe** command

--suffix='_framemd5'

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.

The suffix consists in upper and lower case letters as well as numbers.

--extension='txt'

As the manifest is a text file the default value is 'txt'.

The file extension consist in upper and lower case letters as well as numbers.

INFORMATIVE OPTIONS

-h, --help

display a help message

-x, --options

display the advanced options with their default arguments and indicate if a local configuration has been defined or not

NOTES

CONFIGURATION FILE

An external configuration file

```
${HOME}/.config/AVpres/Bash_AVpres/verify_framemd5.txt
```

can be defined, allowing the script to import alternate default values for the following options:

ffmpeg_bin

ffprobe_bin

suffix

extension

LOG FILES

Temporary log files are stored at

```
/tmp/AVpres/verify_framemd5.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/verify_framemd5.XXXXXXXXXX
```

SEE ALSO

RFC 1321, "The MD5 Message-Digest Algorithm", April 1992
<https://www.rfc-editor.org/info/rfc1321>

make_framemd5(1).

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

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