NAME

make_framemd5 -- Make a frame MD5 checksum manifest for an audio-visual file or single-image files in a folder

SYNOPSIS

make_framemd5 -i *input_path* [**-o** *output_file*]
make_framemd5 -h | -x

DESCRIPTION

Bash_AVpres is a collection of Bash scripts for audio-visual preservation. One of these small programs is **make_framemd5**. It creates manifest with an MD5 checksum for each frame of an audio-visual file or for each single-image file in a folder.

This script should work correctly with Bash from version 3.2 (released back on 2006-10-11), however we strongly advise using the current version 5.3.9 (released on 2025-12-10).

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.

-o *output_file*, **--output=***output_file*
path to the manifest file

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. To cancel a default argument use

--<option>='#'

--ffmpeg='*ffmpeg_path*'

path to the **ffmpeg** command

The default value is:

--ffmpeg='/bin/ffmpeg'

--ffprobe='*ffprobe_path*'

path to the **ffprobe** command

The default value is:

--ffprobe='/bin/ffprobe'

--suffix='*suffix*'

The *suffix* is inserted at the end of the *filename*, immediately before the period and the *extension*. The suffix consists in upper and lower case letters as well as numbers. If wished, a preceding underscore must be added.

The default value is:

--suffix='_framemd5'

--extension='txt'

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

As the manifest is a text file, the default value is:

--extension='txt'

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/make_framemd5.txt

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

Example:
suffix=''

LOG FILES

Temporary log files are stored at
/tmp/AVpres/make_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/make_framemd5.*XXXXXXXXXX*

SEE ALSO

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

verify_framemd5(1); **ffmpeg**(1) and **ffprobe**(1).

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