

**NAME**

**pti** – convert and modify PCE Tape images

**SYNOPSIS**

**pti** [*options*] [*input-file*] [*options*] [*output-file*]

**DESCRIPTION**

**pti**(1) is used to modify and convert PTI tape image files.

**OPTIONS**

**-c, --default-clock** *clock*

Set the default clock used when creating new files or when loading files that don't specify a clock. The clock can be specified as an integer or as one of these:

**c16-ntsc**

The CBM C16 NTSC CPU clock (894886)

**c16-pal**

The CBM C16 PAL CPU clock (886724)

**c64-ntsc**

The CBM C64 NTSC CPU clock (1022727)

**c64-pal**

The CBM C64 PAL CPU clock (985248)

**pet**

The CBM PET CPU clock (1000000)

**vic20-ntsc**

The CBM VIC-20 NTSC CPU clock (1022727)

**vic20-pal**

The CBM VIC-20 PAL CPU clock (1108405)

**pc-pit**

The IBM PC PIT clock (1193182)

**pc-cpu**

The IBM PC CPU clock (4772728)

**-f, --info**

Print information about the current image or the next image loaded.

**-i, --input** *filename*

Load an image from *filename*.

**-I, --input-format** *format*

Set the file format for the next input file. If this option is not used, the file format is detected automatically.

Valid input formats are:

**cas**

A raw bit stream

**pcm**

Raw PCM audio

**pti**

PCE Tape Image

**tap**

C64 tape image

**txt**

A textual representation of a PTI image

**wav**

WAV PCM audio

**-m, --cat** *filename*

Load an image from *filename* and add it to the end of the current image.

**-o, --output** *filename*

Save the image to *filename*.

**-O, --output-format** *format*

Set the file format for the next output file. If this option is not used, the file format is determined by the output file name.

Valid output formats are:

<b>cas</b>	A raw bit stream
<b>pcm</b>	Raw PCM audio
<b>pti</b>	PCE Tape Image
<b>tap</b>	C64 tape image
<b>txt</b>	A textual representation of a PTI image
<b>wav</b>	WAV PCM audio

**-p, --operation** *name* [*arg...*]

Perform an operation on the current image. Valid operations are:

**cat** *filename*

Load a tape image from *filename* and add it to the end of the current image.

**comment-add** *text*

Add *text* to the image comment.

**comment-load** *filename*

Load the image comment from file *filename*.

**comment-print**

Print the current image comment.

**comment-save** *filename*

Save the current image comment to *filename*.

**comment-set** *text*

Set the image comment to *text*.

**fix-clock** *clock*

Set the clock rate to *clock* without adjusting the image data accordingly.

**info**

Print information about the image.

**invert**

Invert the image, turning positive levels into negative levels and vice versa.

**new**

Create a new empty image.

**scale** *factor*

Scale the length of the image by *factor*.

**set-clock** *clock*

Set the clock rate to *clock* and adjust the image data accordingly.

**space-add-left** *time*

Add *time* seconds of silence to the beginning of the image.

**space-add-right** *time*

Add *time* seconds of silence to the end of the image.

**space-add** *time*

Add *time* seconds of silence to both the beginning and the end of the image.

**space-auto** *min-time*

Convert constant levels of at least *min-time* duration to silence.

**space-mac** *time*  
Limit periods of silence to at most *time* seconds.

**space-trim-left**  
Remove silence from the beginning of the image.

**space-trim-right**  
Remove silence from the end of the image.

**space-trim**  
Remove silence from both the beginning and the end of the image.

**trim-left** *time*  
Remove *time* seconds from the beginning of the image.

**trim-right** *time*  
Remove *time* seconds from the end of the image.

**-s, --set** *par val*  
Set parameter *par* to *val*.

**default-clock** *clock*  
This sets the same parameter as the **-c** option.

**pcm-srate** *srate*  
Set the sample rate used when loading and saving PCM files. The default is 44100.

**wav-bits** *bits*  
Set the number of bits per sample when saving WAV files. The default is 16.

**wav-lowpass** *cutoff*  
Set the cut-off frequency for the lowpass filter used when saving WAV files. A frequency of 0 turns the filter off, which is the default.

**wav-lowpass-order**  
Set the filter order of the lowpass filter used when saving WAV files. The default is 4, the maximum is 16.

**wav-sine** *enable*  
If *enable* is true, then the signal written to WAV files is made up of a series of sine waves. If it is false, a simple square wave is written. The default is enabled.

**wav-srate** *srate*  
Set the sample rate used when saving WAV files. The default is 48000.

**-v, --verbose**  
Enable verbose operation.

**--help** Print usage information.

**--version**  
Print version information.

## SEE ALSO

**pfi(1)**, **pri(1)**, **psi(1)**

## AUTHOR

Hampa Hug <hampa@hampa.ch>