



*Full credit is given to the above companies including the OS that this PDF file was generated!*

### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'alsaloop.1'***

#### ***\$ man alsaloop.1***

ALSALOOP(1)            General Commands Manual            ALSALOOP(1)

#### NAME

alsaloop - command-line PCM loopback

#### SYNOPSIS

alsaloop [-option] [cmd]

#### DESCRIPTION

alsaloop allows create a PCM loopback between a PCM capture device and a PCM playback device.

alsaloop supports multiple soundcards, adaptive clock synchronization, adaptive rate resampling using the samplerate library (if available in the system). Also, mixer controls can be redirected from one card to another (for example Master and PCM).

#### OPTIONS

-h | --help

Prints the help information.

-g <file> | --config=<file>

Use given configuration file. The syntax of this file is simple:

one line contains the command line options for one job. The '#'

means comment and rest of line is ignored. Example:

```
# First line - comment, second line - first job
```

```
-C hw:1,0 -P hw:0,0 -t 50000 -T 1
```

```
# Third line - comment, fourth line - second job
```

```
-C hw:1,1 -P hw:0,1 -t 40000 -T 2
```

`-d | --daemonize`

Daemonize the main process and use syslog for messages.

`-P <device> | --pdevice=<device>`

Use given playback device.

`-C <device> | --cdevice=<device>`

Use given capture device.

`-X <device> | --pctl=<device>`

Use given CTL device for playback.

`-Y <device> | --cctl=<device>`

Use given CTL device for capture.

`-x <ctl_ascii_name> | --prateshift=<ctl_ascii_name>`

Specify ctl ascii name for playshift sync mode (see the Examples section).

`-l <latency> | --latency=<frames>`

Requested latency in frames.

`-t <usec> | --tlatency=<usec>`

Requested latency in usec (1/1000000sec).

`-f <format> | --format=<format>`

Format specification (usually S16\_LE S32\_LE). Use -h to list all formats. Default format is S16\_LE.

`-c <channels> | --channels=<channels>`

Channel count specification. Default value is 2.

`-r <rate> | --rate=<rate>`

Rate specification. Default value is 48000 (Hz).

`-n | --resample`

Allow rate resampling using alsa-lib.

`-A <converter> | --samplerate=<converter>`

Use libsamplerate and choose a converter:

0 or sincbest - best quality

1 or sincmedium - medium quality

2 or sincfastest - lowest quality

3 or zerohold - hold zero samples

4 or linear - worst quality - linear resampling

5 or auto - choose best method

-B <size> | --buffer=<size>

Buffer size in frames.

-E <size> | --period=<size>

Period size in frames.

-s <secs> | --seconds=<secs>

Duration of loop in seconds.

-b | --nblock

Non-block mode (very early process wakeup). Eats more CPU.

-S <mode> | --sync=<mode>

Sync mode specification for capture to playback stream:

0 or none - do not touch the stream

1 or simple - add or remove samples to keep

both streams synchronized

2 or captshift - use driver for the capture device

(if supported) to compensate

the rate shift

3 or playshift - use driver for the playback device

(if supported) to compensate

the rate shift

4 or samplerate - use samplerate library to do rate resampling

5 or auto - automatically selects the best method

in this order: captshift, playshift,

samplerate, simple

-T <num> | --thread=<num>

Thread number (-1 means create a unique thread). All jobs with

same thread numbers are run within one thread.

-m <mixid> | --mixer=<midid>

Redirect mixer control from the playback card to the capture card. Format of mixid is SRCID(PLAYBACK)[@DSTID(PLAYBACK)]:

```
"name='Master Playback Switch'@name='Another Switch'"
```

```
"name='PCM Playback Volume'"
```

Known attributes:

name - control ID name

index - control ID index

device - control ID device

subdevice - control ID subdevice

iface - control ID interface

numid - control ID numid

`-O <ossmixid> | --ossmixer=<midid>`

Redirect mixer control from the OSS Mixer emulation layer (capture card) to the ALSA layer (capture card). Format of ossmixid is ALSAID[,INDEX]@OSSID:

```
"Master@VOLUME"
```

```
"PCM,1@ALTPCM"
```

Known OSS attributes:

VOLUME, BASS, TREBLE, SYNTH, PCM, SPEAKER, LINE, MIC, CD,

IMIX, ALTPCM,

RECLEV, IGAIN, OGAIN, LINE1, LINE2, LINE3, DIGITAL1, DIGITAL2,

DIGITAL3,

PHONEIN, PHONEOUT, VIDEO, RADIO, MONITOR

`-v | --verbose`

Verbose mode. Use multiple times to increase verbosity.

`-U | --xrun`

Verbose xrun profiling.

`-W <timeout> | --wake=<timeout>`

Set process wake timeout.

## EXAMPLES

```
alsaloop -C hw:0,0 -P hw:1,0 -t 50000
```

```
alsaloop -C hw:soundcard,0 -P hw:Loopback,0 -t 50000 -S playshift \
```

```
-x iface=PCM,name='PCM Rate Shift 100000',device=1
```

## BUGS

None known.

## AUTHOR

alsalooop is by Jaroslav Kysela <perex@perex.cz>. This document is by

Jaroslav Kysela <perex@perex.cz>.

5 Aug 2010

ALSALOOOP(1)