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.

−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.

−c ‹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

BUGS
None known.

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