
9830 Sat Feb 8 10:54:35 2020

new/usr/src/man/man1/audioconvert.1

12287 errors in audio utility man pages

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1 \" te
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6.TH AUDIOCONVERT 1 "Feb 8, 2020"
6.TH AUDIOCONVERT 1 "Feb 16, 2001"
7.SH NAME
8.audioconvert \- convert audio file formats
9.SH SYNOPSIS
10.LP
10.nf
11 \fBaudioconvert\fR [\fB-pF\fR] [\fB-f\fR \fIoutfmt\fR] [\fB-o\fR \fIoutfile\fR]
12 [ [\fB-i\fR \fIinfmt\fR] [\fIfile\fR]...] ...
13 .fi

15.SH DESCRIPTION
17.sp
18.LP
16 \fBaudioconvert\fR converts audio data between a set of supported audio
17 encodings and file formats. It can be used to compress and decompress audio
18 data, to add audio file headers to raw audio data files, and to convert between
19 standard data encodings, such as u-law and linear PCM.
22 standard data encodings, such as -law and linear PCM.
20.sp
21.LP
22 If no filenames are present, \fBaudioconvert\fR reads the data from the
23 standard input stream and writes an audio file to the standard output.
24 Otherwise, input files are processed in order, concatenated, and written to the
25 output file.
26.sp
27.LP
28 Input files are expected to contain audio file headers that identify the audio
29 data format. If the audio data does not contain a recognizable header, the
30 format must be specified with the \fB-i\fR option, using the \fBbrate\fR,
31 \fBencoding\fR, and \fBchannels\fR keywords to identify the input data format.
32.sp
33.LP
34 The output file format is derived by updating the format of the first input
35 file with the format options in the \fB-f\fR specification. If \fB-p\fR is not
36 specified, all subsequent input files are converted to this resulting format
37 and concatenated together. The output file will contain an audio file header,
38 unless \fBformat\fR=\fIraw\fR is specified in the output format options.
39.sp
40.LP
41 Input files may be converted in place by using the \fB-p\fR option. When
42 \fB-p\fR is in effect, the format of each input file is modified according to
43 the \fB-f\fR option to determine the output format. The existing files are then
44 overwritten with the converted data.
45.sp
46.LP
47 The \fBfile\fR(1) command decodes and prints the audio data format of Sun audio
48 files.
49.SH OPTIONS
53.sp
54.LP
50 The following options are supported:
51.sp
52.ne 2
53.na
54 \fB-p\fR

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55 .ad
56 .RS 14n
57 \fIIn Place\fR: The input files are individually converted to the format
58 specified by the \fB-f\fR option and rewritten. If a target file is a symbolic
59 link, the underlying file will be rewritten. The \fB-o\fR option may not be
60 specified with \fB-p\fR.
61 .RE

63 .sp
64 .ne 2
65 .na
66 \fB\F\fR
67 .ad
68 .RS 14n
69 \fIForce\fR: This option forces \fBaudioconvert\fR to ignore any file header
70 for input files whose format is specified by the \fB-i\fR option. If \fB-F\fR
71 is not specified, \fBaudioconvert\fR ignores the \fB-i\fR option for input
72 files that contain valid audio file headers.
73 .RE

75 .sp
76 .ne 2
77 .na
78 \fB\F-f\fR \fIoutfmt\fR
79 .ad
80 .RS 14n
81 \fIOutput Format\fR: This option is used to specify the file format and data
82 encoding of the output file. Defaults for unspecified fields are derived from
83 the input file format. Valid keywords and values are listed in the next
84 section.
85 .RE

87 .sp
88 .ne 2
89 .na
90 \fB\F-o\fR \fIoutfile\fR
91 .ad
92 .RS 14n
93 \fIOutput File\fR: All input files are concatenated, converted to the output
94 format, and written to the named output file. If \fB-o\fR and \fB-p\fR are not
95 specified, the concatenated output is written to the standard output. The
96 \fB-p\fR option may not be specified with \fB-o\fR.
97 .RE

99 .sp
100 .ne 2
101 .na
102 \fB\F-i\fR \fIinfmt\fR
103 .ad
104 .RS 14n
105 \fIInput Format\fR: This option is used to specify the data encoding of raw
106 input files. Ordinarily, the input data format is derived from the audio file
107 header. This option is required when converting audio data that is not preceded
108 by a valid audio file header. If \fB-i\fR is specified for an input file that
109 contains an audio file header, the input format string will be ignored, unless
110 \fB-F\fR is present. The format specification syntax is the same as the
111 \fB-f\fR output file format.
112 .sp
113 Multiple input formats may be specified. An input format describes all input
114 files following that specification, until a new input format is specified.
115 .RE

117 .sp
118 .ne 2
119 .na
120 \fB\Ffile\fR

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121 .ad
122 .RS 14n
123 \fIFile Specification\fR: The named audio files are concatenated, converted to
124 the output format, and written out. If no file name is present, or if the
125 special file name '\(mi' is specified, audio data is read from the standard
126 input.
127 .RE

129 .sp
130 .ne 2
131 .na
132 \fB\fB-?\fR\fR
133 .ad
134 .RS 14n
135 \fIHelp\fR: Prints a command line usage message.
136 .RE

138 .SS "Format Specification"
144 .sp
145 .LP
139 The syntax for the input and output format specification is:
140 .sp
141 .LP
142 \fIkeyword\fR=\fIvalue\fR[,\fIkeyword\fR=\fIvalue\fR \|.|\|.\|.\|]
143 .sp
144 .LP
145 with no intervening whitespace. Unambiguous values may be used without the
146 preceding \fIkeyword\fR=.
147 .sp
148 .ne 2
149 .na
150 \fB\fBrate\fR\fR
151 .ad
152 .RS 12n
153 The audio sampling rate is specified in samples per second. If a number is
154 followed by the letter \fBk\fR, it is multiplied by 1000 (for example, 44.1k =
155 44100). Standard of the commonly used sample rates are: 8k, 16k, 32k, 44.1k,
156 and 48k.
157 .RE

159 .sp
160 .ne 2
161 .na
162 \fB\fBchannels\fR\fR
163 .ad
164 .RS 12n
165 The number of interleaved channels is specified as an integer. The words
166 \fBmono\fR and \fBstereo\fR may also be used to specify one and two channel
167 data, respectively.
168 .RE

170 .sp
171 .ne 2
172 .na
173 \fB\fBencoding\fR\fR
174 .ad
175 .RS 12n
176 This option specifies the digital audio data representation. Encodings
177 determine precision implicitly (\fBbulaw\fR implies 8-bit precision) or
178 explicitly as part of the name (for example, \fBblinear16\fR). Valid encoding
179 values are:
180 .sp
181 .ne 2
182 .na
183 \fB\fBbulaw\fR\fR
184 .ad

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185 .RS 13n
186 \fBCCITT G.711\fR u-law encoding. This is an 8-bit format primarily used for
193 \fBCCITT G.711\fR -law encoding. This is an 8-bit format primarily used for
187 telephone quality speech.
188 .RE

190 .sp
191 .ne 2
192 .na
193 \fB\fBalaw\fR\fR
194 .ad
195 .RS 13n
196 \fBCCITT G.711\fR A-law encoding. This is an 8-bit format primarily used for
197 telephone quality speech in Europe.
198 .RE

200 .sp
201 .ne 2
202 .na
203 \fB\fBlinear8\fR,\fR
204 .ad
205 .br
206 .na
207 \fB\fBlinear16\fR,\fR
208 .ad
209 .br
210 .na
211 \fB\fBlinear32\fR\fR
212 .ad
213 .RS 13n
214 Linear Pulse Code Modulation (PCM) encoding. The name identifies the number of
215 bits of precision. \fBlinear16\fR is typically used for high quality audio
216 data.
217 .RE

219 .sp
220 .ne 2
221 .na
222 \fB\fBpcm\fR\fR
223 .ad
224 .RS 13n
225 Same as \fBlinear16\fR.
226 .RE

228 .sp
229 .ne 2
230 .na
231 \fB\fBg721\fR\fR
232 .ad
233 .RS 13n
234 \fBCCITT G.721\fR compression format. This encoding uses Adaptive Delta Pulse
235 Code Modulation (ADPCM) with 4-bit precision. It is primarily used for
236 compressing u-law voice data (achieving a 2:1 compression ratio).
243 compressing -law voice data (achieving a 2:1 compression ratio).
237 .RE

239 .sp
240 .ne 2
241 .na
242 \fB\fBg723\fR\fR
243 .ad
244 .RS 13n
245 \fBCCITT G.723\fR compression format. This encoding uses Adaptive Delta Pulse
246 Code Modulation (ADPCM) with 3-bit precision. It is primarily used for
247 compressing u-law voice data (achieving an 8:3 compression ratio). The audio
254 compressing -law voice data (achieving an 8:3 compression ratio). The audio

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248 quality is similar to \fBG.721,\fR but may result in lower quality when used
249 for non-speech data.
250 .RE

252 The following encoding values are also accepted as shorthand to set the sample
253 rate, channels, and encoding:
254 .sp
255 .ne 2
256 .na
257 \fB\fBvoice\fR\fR
258 .ad
259 .RS 9n
260 Equivalent to \fBencoding=ulaw,rate=8k,channels=mono\fR.
261 .RE

263 .sp
264 .ne 2
265 .na
266 \fB\fBcd\fR\fR
267 .ad
268 .RS 9n
269 Equivalent to \fBencoding=linear16,rate=44.1k,channels=stereo\fR.
270 .RE

272 .sp
273 .ne 2
274 .na
275 \fB\fBdat\fR\fR
276 .ad
277 .RS 9n
278 Equivalent to \fBencoding=linear16,rate=48k,channels=stereo\fR.
279 .RE

281 .RE

283 .sp
284 .ne 2
285 .na
286 \fB\fBformat\fR\fR
287 .ad
288 .RS 12n
289 This option specifies the audio file format. Valid formats are:
290 .sp
291 .ne 2
292 .na
293 \fB\fBsun\fR\fR
294 .ad
295 .RS 7n
296 Sun compatible file format (the default).
297 .RE

299 .sp
300 .ne 2
301 .na
302 \fB\fBraw\fR\fR
303 .ad
304 .RS 7n
305 Use this format when reading or writing raw audio data (with no audio header),
306 or in conjunction with an \fBoffset\fR to import a foreign audio file format.
307 .RE

309 .RE

311 .sp
312 .ne 2
313 .na

```

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314 \fB\fBoffset\fR\fR
315 .ad
316 .RS 12n
317 (\fB-i\fR \fBonly\fR) Specifies a byte offset to locate the start of the audio
318 data. This option may be used to import audio data that contains an
319 unrecognized file header.
320 .RE

322 .SH USAGE
323 .sp
324 .LP
325 See \fBlargefile\fR(5) for the description of the behavior of
326 \fBaudioconvert\fR when encountering files greater than or equal to 2 Gbyte
327 (2^31 bytes).
328 \fBaudioconvert\fR when encountering files greater than or equal to 2 Gbyte (
329 2^31 bytes).
330 .SH EXAMPLES
331 .LP
332 \fBExample 1\fR \fRRecording and compressing voice data before storing it
333 .sp
334 .LP
335 Record voice data and compress it before storing it to a file:
336 .sp
337 .in +2
338 .nf
339 example% \fBaudiorecord | audioconvert -f g721 > mydata.au\fR
340 .fi
341 .in -2
342 .sp

344 .LP
345 \fBExample 2\fR \fRConcatenating two audio files
346 .sp
347 .LP
348 Concatenate two Sun format audio files, regardless of their data format, and
349 output an 8-bit ulaw, 16 kHz, mono file:
350 .sp
351 .in +2
352 .nf
353 example% \fBaudioconvert -f ulaw,rate=16k,mono -o outfile.au infile1 infile2\fR
354 .fi
355 .in -2
356 .sp

358 .LP
359 \fBExample 3\fR \fRConverting a directory to Sun format
360 .sp
361 .LP
362 Convert a directory containing raw voice data files, in place, to Sun format
363 (adds a file header to each file):
364 .sp
365 .in +2
366 .nf
367 example% \fBaudioconvert -p -i voice -f sun *.au\fR
368 .fi
369 .in -2
370 .sp

372 .SH ATTRIBUTES
373 .sp
374 .LP
375 See \fBattributes\fR(5) for descriptions of the following attributes:
376 .sp

```

```
386 .sp
387 .TS
388 box;
389 c / c
390 l / l .
391 ATTRIBUTE TYPE  ATTRIBUTE VALUE
392 -
393 Architecture    SPARC, x86
394 -
395 Interface Stability  Evolving
396 .TE
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370 .SH SEE ALSO
371 \fBaudioplay\fR(1), \fBaudiorecord\fR(1), \fBfile\fR(1),
399 .sp
400 .LP
401 \fBaudioplay\fR(1), \fBaudiorecord\fR(1), \fBfile\fR(1), \fBattributes\fR(5),
372 \fBlargefile\fR(5)
373 .SH NOTES
404 .sp
405 .LP
374 The algorithm used for converting multi-channel data to mono is implemented by
375 simply summing the channels together. If the input data is perfectly in phase
376 (as would be the case if a mono file is converted to stereo and back to mono),
377 the resulting data may contain some distortion.
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```

*****
3767 Sat Feb 8 10:54:35 2020
new/usr/src/man/man1/audiocctl.1
12287 errors in audio utility man pages
*****
1 \" t
2 .\"
3 .\" This file and its contents are supplied under the terms of the
4 .\" Common Development and Distribution License ("CDDL"), version 1.0.
5 .\" You may only use this file in accordance with the terms of version
6 .\" 1.0 of the CDDL.
7 .\"
8 .\" A full copy of the text of the CDDL should have accompanied this
9 .\" source. A copy of the CDDL is also available via the Internet at
10 .\" http://www.illumos.org/license/CDDL.
11 .\"
12 .\"
13 .\" Copyright 2011 Nexenta Systems, Inc. All rights reserved.
14 .\" Copyright 2020 Peter Tribble.
15 .\"
16 .TH AUDIOCTL 1 "Feb 8, 2020"
17 .SH NAME
18 audiocctl - audio device control command line interface
19 .SH SYNOPSIS
20 .nf
21 \fBaudiocctl\fR \fBlist-devices\fR
22 .fi

24 .LP
25 .nf
26 \fBaudiocctl\fR \fBshow-device\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR]
27 .fi

29 .LP
30 .nf
31 \fBaudiocctl\fR \fBshow-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR] [\fIcontrol
32 \fBaudiocctl\fR \fBshow-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fB] [\fIcontrol

34 .LP
35 .nf
36 \fBaudiocctl\fR \fBset-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR] \fIcontrol\f
37 \fBaudiocctl\fR \fBset-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fB] \fIcontrol\f

39 .LP
40 .nf
41 \fBaudiocctl\fR \fBsave-controls\fR [\fB-d\fR \fIdevice\fR] [\fB-f\fR] \fIfile\fR
42 \fBaudiocctl\fR \fBsave-controls\fR [\fB-d\fR \fIdevice\fB] [\fB-f\fR] \fIfile\fR
43 .fi

44 .LP
45 .nf
46 \fBaudiocctl\fR \fBload-controls\fR [\fB-d\fR \fIdevice\fR] \fIfile\fR
47 \fBaudiocctl\fR \fBload-controls\fR [\fB-d\fR \fIdevice\fB] \fIfile\fR
48 .fi

49 .LP
50 .nf
51 \fBaudiocctl\fR \fBhelp\fR
52 .fi

54 .SH DESCRIPTION
55 The \fBaudiocctl\fP command is used to control various settings and features
56 of audio devices, including mixer settings such as playback volume and

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```

57 record gain.
58 .SH SUBCOMMANDS
59 The \fBaudiocctl\fR command supports the following subcommands.
60 .sp
61 .ne 2
62 .na
63 \fBlist-devices\fR
64 .ad
65 .sp .6
66 .RS 4n
67 List all the audio devices on the system.
68 .RE

70 .sp
71 .ne 2
72 .na
73 \fBshow-device\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR]
74 \fBshow-device\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR] [\fBcontrol\fR ... ]
75 .ad
76 .sp .6
77 Display an informational overview of \fIdevice\fR (or the default device if
78 not specified). If the \fB-v\fR option is specified, then more detail
79 will be displayed.
80 .RE

82 .sp
83 .ne 2
84 .na
85 \fBshow-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR] [\fBcontrol\fR ... ]
86 \fBshow-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR]
87 .ad
88 .sp .6
89 Display the control settings for one or more \fIcontrols\fR of a
90 \fIdevice\fR (or the default device if not specified). If no \fIcontrol\fR is
91 specified, then the settings for all controls will be displayed. If
92 the \fB-v\fR option is specified, then more detail will be displayed.
93 .RE

95 .sp
96 .ne 2
97 .na
98 \fBset-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fR] \fIcontrol\fR \fIvalue\fR
99 \fBset-control\fR [\fB-v\fR] [\fB-d\fR \fIdevice\fB] \fIcontrol\fR \fIvalue\fR
100 .ad
101 .sp .6
102 Set the control settings for a \fIcontrol\fR of a \fIdevice\fR (or the
103 default device if not specified) to \fIvalue\fR. If the \fB-v\fR
104 option is specified, then more verbose output be displayed.
105 .RE

107 .sp
108 .ne 2
109 .na
110 \fBsave-controls\fR [\fB-f\fR] [\fB-d\fR \fIdevice\fR] \fIfile\fR
111 \fBsave-controls\fR [\fB-f\fR] [\fB-d\fR \fIdevice\fB] \fIfile\fR
112 .ad
113 .sp .6
114 Save all control settings of the \fIdevice\fR (or the default device if not
115 specified) to the named \fIfile\fR. This subcommand will not replace
116 or modify an existing file unless \fB-f\fR (force) is specified.
117 .RE

```

```
119 .sp
120 .ne 2
121 .na
122 \fBload-controls\fR [\fB-d\fR \fIdevice\fR] \fIfile\fR
116 \fBload-controls\fR [\fB-d\fR \fIdevice\fB] \fIfile\fR
123 .ad
124 .sp .6
125 .RS 4n
126 Load previously saved control settings from a \fIfile\fR
127 into a \fIdevice\fR (or all audio devices if not
128 specified).
129 .RE

131 .sp
132 .ne 2
133 .na
134 \fBhelp\fR
135 .ad
136 .sp .6
137 .RS 4n
138 Display the usage message.
139 .RE

141 .SH ENVIRONMENT VARIABLES
142 .ne 2
143 .na
144 \fB\BAUDIODEV\fR
145 .ad
146 .RS 12n
147 The full path name of the default audio device to use if one
148 is not specified on the command line. If this variable is not set,
149 \fB/dev/audio\fR is used.
150 .RE

152 .SH ATTRIBUTES
138 See \fBattributes\fR(5) for descriptions of the following attributes:
139 .sp

141 .sp
142 .TS
143 box;
144 c | c
145 l | l .
146 ATTRIBUTE TYPE ATTRIBUTE VALUE
147 -
148 Interface Stability See below.
149 .TE
150 .LP
153 The \fBaudioc1\fR command and its subcommands are Committed. The
154 names of controls, their values, and device names are Uncommitted.
155 The display output is intended for human consumption, and is Not An
156 Interface. The format of the state files used by the
157 \fBsave-controls\fR and \fBload-controls\fR subcommands is Committed
158 Private.
159 .SH SEE ALSO
160 \fBaudioplay\fR(1), \fBaudiorecord\fR(1), \fBdsp\fR(7I),
161 \fBmixer\fR(7I)
159 \fBmixer\fR(7I), \fBattributes\fR(5)
```

5095 Sat Feb 8 10:54:35 2020

new/usr/src/man/man1/audioplay.1

12287 errors in audio utility man pages

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1 \" te
2.\" Copyright (c) 2009, Sun Microsystems, Inc. All Rights Reserved
3.\" The contents of this file are subject to the terms of the Common Development
4.\" See the License for the specific language governing permissions and limitat
5.\" fields enclosed by brackets \"[]\" replaced with your own identifying informat
6.TH AUDIOPLAY 1 "Feb 8, 2020"
6.TH AUDIOPLAY 1 "May 13, 2017"
7.SH NAME
8 audioplay \- play audio files
9.SH SYNOPSIS
10.LP
10.nf
11 \fBaudioplay\fR [\fB-iV\fR] [\fB-v\fR \fIvol\fR] [\fB-d\fR \fIdev\fR] [\fIfile\f
12.fi

14.SH DESCRIPTION
16.LP
15 The \fBaudioplay\fR utility copies the named audio files (or the standard input
16 if no filenames are present) to the audio device. If no input file is specified
17 and standard input is a tty, the program exits with an error message.
18.sp
19.LP
20 The input files must contain a valid audio file header. The encoding
21 information in this header is matched against the capabilities of the audio
22 device and, if the data formats are incompatible, an error message is printed
23 and the file is skipped. Compressed \fBADPCM\fR (G.721) monaural audio data is
24 automatically uncompressed before playing.
25.sp
26.LP
27 Minor deviations in sampling frequency (that is, less than 1%) are ordinarily
28 ignored. This allows, for instance, data sampled at 8012 Hz to be played on an
29 audio device that only supports 8000 Hz. If the \fB-V\fR option is present,
30 such deviations are flagged with warning messages.
31.SH OPTIONS
34.LP
32 The following options are supported:
33.sp
34.ne 2
35.na
36 \fB-d\fR \fIdev\fR
37.ad
38.RS 11n
39 \fIdevice\fR: The \fIdev\fR argument specifies an alternate audio device to
40 which output should be directed. If the \fB-d\fR option is not specified, the
41 \fBAUDIODEV\fR environment variable is consulted (see below). Otherwise,
42 \fB/dev/audio\fR is used as the default audio device.
43.RE

45.sp
46.ne 2
47.na
48 \fB-i\fR \fIfile\fR
49.ad
50.RS 11n
51 \fIimmediate\fR: If the audio device is unavailable (that is, another process
52 currently has write access), \fBaudioplay\fR ordinarily waits until it can
53 obtain access to the device. When the \fB-i\fR option is present,
54 \fBaudioplay\fR prints an error message and exits immediately if the device is
55 busy.
56.RE

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```

58.sp
59.ne 2
60.na
61 \fB-v\fR \fIvol\fR
62.ad
63.RS 11n
64 \fIvolume\fR: The output volume is set to the specified value before playing
65 begins, and is reset to its previous level when \fBaudioplay\fR exits. The
66 \fIvol\fR argument is an integer value between 0 and 100, inclusive. If this
67 argument is not specified, the output volume remains at the level most recently
68 set by any process.
69.RE

71.sp
72.ne 2
73.na
74 \fB-V\fR \fIfile\fR
75.ad
76.RS 11n
77 \fIverbose\fR: Prints messages on the standard error when waiting for access to
78 the audio device or when sample rate deviations are detected.
79.RE

81.sp
82.ne 2
83.na
84 \fB-?\fR \fIfile\fR
87 \fB(mi|e?)\fR \fIfile\fR
85.ad
86.RS 11n
87 \fIhelp\fR: Prints a command line usage message.
88.RE

90.SH OPERANDS
91.ne 2
92.na
93 \fB\fIfile\fR
94.ad
95.RS 8n
96 \fIFile Specification\fR: Audio files named on the command line are played
97 sequentially. If no filenames are present, the standard input stream (if it is
98 not a tty) is played (it, too, must contain an audio file header). The special
99 filename \fB(mi)\fR can be used to read the standard input stream instead of a
100 file. If a relative path name is supplied, the \fBAUDIOPATH\fR environment
101 variable is consulted (see below).
102.RE

104.SH USAGE
108.LP
105 See \fBbargfile\fR(5) for the description of the behavior of \fBaudioplay\fR
106 when encountering files greater than or equal to 2 Gbyte (2^31 bytes).
107 when encountering files greater than or equal to 2 Gbyte ( 2^31 bytes).
107.SH ENVIRONMENT VARIABLES
108.ne 2
109.na
110 \fBBAUDIODEV\fR \fIfile\fR
111.ad
112.RS 13n
113 The full path name of the audio device to write to, if no \fB-d\fR argument is
114 supplied. If the \fBAUDIODEV\fR variable is not set, \fB/dev/audio\fR is used.
115.RE

117.sp
118.ne 2
119.na
120 \fBBAUDIOPATH\fR \fIfile\fR

```

```
121 .ad
122 .RS 13n
123 A colon-separated list of directories in which to search for audio files whose
124 names are given by relative pathnames. The current directory (\fB&.\fR) can be
125 specified explicitly in the search path. If the \fBAUDIOPATH\fR variable is not
126 set, only the current directory is searched.
127 .RE
```

```
133 .SH ATTRIBUTES
134 .LP
135 See \fBattributes\fR(5) for descriptions of the following attributes:
136 .sp
```

```
138 .sp
139 .TS
140 box;
141 c / c
142 l / l .
143 ATTRIBUTE TYPE ATTRIBUTE VALUE
144 -
145 Architecture SPARC, x86
146 -
147 Interface Stability Committed
148 .TE
```

```
129 .SH SEE ALSO
```

```
151 .LP
130 \fBaudioconvert\fR(1), \fBaudiorecord\fR(1),
131 \fBlargefile\fR(5), \fBaudio\fR(7I)
153 \fBattributes\fR(5), \fBlargefile\fR(5), \fBaudio\fR(7I)
132 .SH BUGS
```

```
155 .LP
133 \fBaudioplay\fR currently supports a limited set of audio format conversions.
134 If the audio file is not in a format supported by the audio device, it must
135 first be converted. For example, to convert to voice format on the fly, use the
136 command:
137 .sp
138 .in +2
139 .nf
140 example% \fBaudioconvert -f voice myfile | audioplay\fR
141 .fi
142 .in -2
143 .sp
```

```
145 .sp
146 .LP
147 The format conversion is not always be able to keep up with the audio output.
148 If this is the case, you should convert to a temporary file before playing the
149 data.
```



```

*****
6386 Sat Feb 8 10:54:35 2020
new/usr/src/man/man1/audiorecord.1
12287 errors in audio utility man pages
*****
1 \" te
2.\" Copyright (c) 2009, Sun Microsystems, Inc. All Rights Reserved
3.\" Copyright 2020 Peter Tribble.
4.\" The contents of this file are subject to the terms of the Common Development
5.\" See the License for the specific language governing permissions and limitat
6.\" fields enclosed by brackets \"[]\" replaced with your own identifying informat
7.TH AUDIORECORD 1 \"Feb 8, 2020\"
8.TH AUDIORECORD 1 \"May 13, 2017\"
9.SH NAME
10 audiorecord \- record an audio file
11.SH SYNOPSIS
12.LP
13.nf
14 \fBaudiorecord\fR [\fB-af\fR] [\fB-v\fR \fIivol\fR] [\fB-c\fR \fIchannels\fR] [\fB
15 \fBaudiorecord\fR [\fB-af\fR] [\fB-v\fR \fIivol\fR] [\fB-c\fR \fIchannels\fR] [\fB
16 [\fB-e\fR \fIencoding\fR] [\fB-t\fR \fItime\fR] [\fB-i\fR \fIinfo\fR] [\fB-
17 [\fB-T\fR \fIBau\fR] \fIBaif\fR [\fBF\fR] | \fBwav\fR] [\fIfile\fR] [\fBau\fR]
18 \fB
19 \fB
20 \fB
21 \fB
22 \fB
23 \fB
24 \fB
25 \fB
26 \fB
27 \fB
28 \fB
29 \fB
30 \fB
31 \fB
32 \fB
33 \fB
34 \fB
35 \fB
36 \fB
37 \fB
38 \fB
39 \fB
40 \fB
41 \fB
42 \fB
43 \fB
44 \fB
45 \fB
46 \fB
47 \fB
48 \fB
49 \fB
50 \fB
51 \fB
52 \fB
53 \fB

```

```

54 .RS 24n
55 \fIAppend\fR: Appends the data on the end of the named audio file. The audio
56 device must support the audio data format of the existing file.
57 .RE
58
59 .sp
60 .ne 2
61 .na
62 \fB\fB-c\fR \fIchannels\fR\fR
63 .ad
64 .RS 24n
65 \fIChannels\fR: Specifies the number of audio channels (1 or 2). The value may
66 be specified as an integer or as the string \fBmono\fR or \fBstereo\fR. The
67 default value is \fBmono\fR.
68 .RE
69
70 .sp
71 .ne 2
72 .na
73 \fB\fB-d\fR \fIdev\fR\fR
74 .ad
75 .RS 24n
76 \fIDevice\fR: The \fIdev\fR argument specifies an alternate audio device from
77 which input should be taken. If the \fB-d\fR option is not specified, the
78 \fBAUDIODEV\fR environment variable is consulted (see below). Otherwise,
79 \fB/dev/audio\fR is used as the default audio device.
80 .RE
81
82 .sp
83 .ne 2
84 .na
85 \fB\fB-e\fR \fIencoding\fR\fR
86 .ad
87 .RS 24n
88 \fIEncoding\fR: Specifies the audio data encoding. This value may be one of
89 \fBbulaw\fR, \fBbalaw\fR, or \fBblinear\fR. The default encoding is \fBbulaw\fR.
90 .RE
91
92 .sp
93 .ne 2
94 .na
95 \fB\fB-f\fR \fR\fR
96 .ad
97 .RS 24n
98 \fIForce\fR: When the \fB-a\fR flag is specified, the sample rate of the audio
99 device must match the sample rate at which the original file was recorded. If
100 the \fB-f\fR flag is also specified, sample rate differences are ignored, with
101 a warning message printed on the standard error.
102 .RE
103
104 .sp
105 .ne 2
106 .na
107 \fB\fB-i\fR \fIinfo\fR\fR
108 .ad
109 .RS 24n
110 \fIInformation\fR: The 'information' field of the output file header is set to
111 the string specified by the \fIinfo\fR argument. This option cannot be
112 specified in conjunction with the \fB-a\fR argument.
113 .RE
114
115 .sp
116 .ne 2
117 .na
118 \fB\fB-s\fR \fIrate\fR\fR
119 .ad

```

```

120 .RS 24n
121 \fISample Rate\fR: Specifies the sample rate, in samples per second. If a
122 number is followed by the letter \fBk\fR, it is multiplied by 1000 (for
123 example, 44.1k = 44100). The default sample rate is 8 kHz.
124 .RE

126 .sp
127 .ne 2
128 .na
129 \fB\fB-t\fR \fItime\fR\fR
130 .ad
131 .RS 24n
132 \fItime\fR: The \fItime\fR argument specifies the maximum length of time to
133 record. Time can be specified as a floating-point value, indicating the number
134 of seconds, or in the form: \fIhh:mm:ss.dd\fR, where the hour and minute
135 specifications are optional.
136 .RE

138 .sp
139 .ne 2
140 .na
141 \fB\fB-T\fR \fBau\fR | \fBaif\fR[\fBf\fR] | \fBwav\fR\fR
142 .ad
143 .RS 24n
144 Specifies the audio file type to create. If the \fB-a\fR option is used, the
145 file type must match the file to which it is being appended. Regardless of the
146 file suffix, the type is set as specified in this option. If this option is not
147 specified, the file suffix determines the type.
148 .RE

150 .sp
151 .ne 2
152 .na
153 \fB\fB-v\fR \fIvol\fR\fR
154 .ad
155 .RS 24n
156 \fIVolume\fR: The recording gain is set to the specified value before recording
157 begins, and is reset to its previous level when \fBaudiorecord\fR exits. The
158 \fIvol\fR argument is an integer value between 0 and 100, inclusive. If this
159 argument is not specified, the input volume remains at the level most recently
160 set by any process.
161 .RE

163 .SH OPERANDS
164 .ne 2
165 .na
166 \fIfile\fR[\fB&.au\fR|\fB&.aif\fR[\fBf\fR]|\fB&.wav\fR]
167 \fB\fIfile\fR[\fB&.au\fR|\fB&.aif\fR[\fBf\fR]|\fB&.wav\fR]
168 .ad
169 .RS 4n
170 \fIFile Specification\fR: The named audio file is rewritten, or appended. If no
171 filename is present, and standard output is not a tty, or if the special
172 filename "\fB(mi\fR" is specified, output is directed to the standard
173 output.
174 .sp
175 If the \fB-T\fR option is not specified, the file suffix determines the type of
176 file. If the suffix is not recognized, the default is \fB&.au\fR. If the
177 \fB-T\fR option \fBis\fR specified, that file type is used regardless of the
178 file suffix.
179 .RE

181 .SH USAGE
182 .LP
183 See \fBlargefile\fR(5) for the description of the behavior of \fBaudiorecord\fR
184 when encountering files greater than or equal to 2 Gbyte (2^31 bytes).
```

```

186 when encountering files greater than or equal to 2 Gbyte ( 2^31 bytes).
187 .SH ENVIRONMENT VARIABLES
188 .ne 2
189 .na
190 \fB\fBAUDIODEV\fR\fR
191 .ad
192 .RS 12n
193 The full path name of the audio device to record from, if no \fB-d\fR argument
194 is supplied. If the \fBAUDIODEV\fR variable is not set, \fB/dev/audio\fR is
195 used.
196 .RE

198 .SH ATTRIBUTES
199 .LP
200 See \fBattributes\fR(5) for descriptions of the following attributes:
201 .sp

203 .sp
204 .TS
205 box;
206 c | c
207 l | l .
208 ATTRIBUTE TYPE      ATTRIBUTE VALUE
209 -
210 Architecture        SPARC, x86
211 -
212 Interface Stability  Committed
213 .TE

215 .SH SEE ALSO
216 .LP
217 \fBaudioconvert\fR(1), \fBaudioplay\fR(1),
218 \fBlargefile\fR(5), \fBAudio\fR(7I)
219 \fBattributes\fR(5), \fBlargefile\fR(5), \fBAudio\fR(7I)
```

```

*****
2760 Sat Feb 8 10:54:35 2020
new/usr/src/man/man1/audiotest.1
12287 errors in audio utility man pages
*****
1 \" te
2.\" Copyright (c) 2009, Sun Microsystems, Inc. All Rights Reserved
3.\" Copyright 2020 Peter Tribble.
4.\" The contents of this file are subject to the terms of the Common Development
5.\" See the License for the specific language governing permissions and limitat
6.\" fields enclosed by brackets \"[]\" replaced with your own identifying informat
7.TH AUDIOTEST 1 \"Feb 8, 2020\"
8.SH NAME
9 audiotest \- test audio device
10 .SH SYNOPSIS
11 .nf
12 \fBaudiotest\fR [\fB-2457\fR] [\fB-l\fR] [\fB-r\fR \fIrate\fR] [\fIdev\fR] ...
12 \fBaudiotest\fR [\fB-24571\fR] [\fIdev\fR] ...
13 .fi

15 .SH DESCRIPTION
16 .LP
17 The \fBaudiotest\fR utility runs a test for the named audio device (or all
18 audio devices found on the system if none is given). The test includes playing
19 an audio sample over each channel and measuring the rate of playback for clock
20 drift.
21 .SH OPTIONS
22 .LP
23 The following options are supported:
24 .sp
25 .ne 2
26 .na
27 \fB-l\fR
28 \fB-l\fR \fB-l\fR \fR
29 .ad
30 .RS 6n
31 Loop mode. The test is run in an infinite loop.
32 .RE

33 .sp
34 .ne 2
35 .na
36 \fB-r\fR \fB-r\fR \fIrate\fR
37 \fB-r\fR \fB-r\fR \fR
38 .ad
39 .RS 6n
40 Sample rate. By default 48000Hz is used.
41 .RE

42 .sp
43 .ne 2
44 .na
45 \fB-2\fR
46 \fB-2\fR \fR
47 .ad
48 .RS 6n
49 Stereo (2-channel) mode. This is the default mode. Playback assumes 2 channels
50 are present.
51 .RE

52 .sp
53 .ne 2
54 .na
55 \fB-4\fR
56 \fB-4\fR \fR

```

```

54 .ad
55 .RS 6n
56 Quadraphonic mode (4-channel surround). The test assumes that four surround
57 channels are present.
58 .RE

60 .sp
61 .ne 2
62 .na
63 \fB-5\fR
64 \fB-5\fR \fR
65 .ad
66 .RS 6n
67 Surround sound mode (5.1). The test checks the left, right, surround left,
68 surround right, and center channels. The low frequency effects channel is not
69 tested.
70 .RE

71 .sp
72 .ne 2
73 .na
74 \fB-7\fR
75 \fB-7\fR \fR
76 .ad
77 .RS 6n
78 Surround sound mode (7.1). The test checks the left, right, surround left,
79 surround right, back surround left, back surround right, and center channels.
80 The low frequency effects channel is not tested.
81 .RE

82 .sp
83 .LP
84 If multiple modes are specified, the last one specified is used.

86 .SH OPERANDS
87 .ne 2
88 .na
89 \fIdev\fR
90 \fB-l\fR \fIdev\fR \fR
91 .ad
92 .RS 7n
93 The path to the device to test, for example, \fB/dev/dsp0\fR.
94 The path the device to test, for example, \fB/dev/dsp0\fR.
95 .RE

96 .SH ATTRIBUTES
97 .LP
98 See \fBattributes\fR(5) for descriptions of the following attributes:
99 .sp

100 .sp
101 .TS
102 box;
103 c | c
104 l | l .
105 ATTRIBUTE TYPE ATTRIBUTE VALUE
106 Architecture SPARC, x86
107 Interface Stability Committed
108 .TE

109 .SH SEE ALSO
110 .LP
111 \fBaudioconvert\fR(1), \fBaudiorecord\fR(1),
112 \fBaudio\fR(7I)

```

```
104 \fBattributes\fR(5), \fBaudio\fR(7I)
98 .SH BUGS
106 .LP
99 \fBaudiotest\fR has no way to detect the number of actual audio channels
100 supported by the physical device.
101 .sp
102 .LP
103 \fBaudiotest\fR does not test the low-frequency effects (LFE) channel.
104 .sp
105 .LP
106 There is no test for audio capture, volume controls, or other advanced device
107 features.
```