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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
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| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **javazoom.jl.player**

Class JavaSoundAudioDevice

java.lang.Object  
 [javazoom.jl.player.AudioDeviceBase](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html)  
 **javazoom.jl.player.JavaSoundAudioDevice**

**All Implemented Interfaces:** [AudioDevice](http://docs.google.com/javazoom/jl/player/AudioDevice.html)

public class **JavaSoundAudioDevice**extends [AudioDeviceBase](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html)

The JavaSoundAudioDevice implements an audio device by using the JavaSound API.

**Since:** 0.0.8

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| **Constructor Summary** | |
| [**JavaSoundAudioDevice**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#JavaSoundAudioDevice())() |

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| **Method Summary** | |
| protected  void | [**closeImpl**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#closeImpl())()            Template method to provide the implementation for closing the audio device. |
| protected  void | [**createSource**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#createSource())() |
| protected  void | [**flushImpl**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#flushImpl())()            Template method to provide the implementation for flushing any buffered audio data. |
| protected  javax.sound.sampled.AudioFormat | [**getAudioFormat**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#getAudioFormat())() |
| protected  byte[] | [**getByteArray**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#getByteArray(int))(int length) |
| int | [**getPosition**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#getPosition())()            Retrieves the current playback position in milliseconds. |
| protected  javax.sound.sampled.DataLine.Info | [**getSourceLineInfo**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#getSourceLineInfo())() |
| int | [**millisecondsToBytes**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#millisecondsToBytes(javax.sound.sampled.AudioFormat,%20int))(javax.sound.sampled.AudioFormat fmt, int time) |
| void | [**open**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#open(javax.sound.sampled.AudioFormat))(javax.sound.sampled.AudioFormat fmt) |
| protected  void | [**openImpl**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#openImpl())()            Template method to provide the implementation for the opening of the audio device. |
| protected  void | [**setAudioFormat**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#setAudioFormat(javax.sound.sampled.AudioFormat))(javax.sound.sampled.AudioFormat fmt0) |
| void | [**test**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#test())()            Runs a short test by playing a short silent sound. |
| protected  byte[] | [**toByteArray**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#toByteArray(short%5B%5D,%20int,%20int))(short[] samples, int offs, int len) |
| protected  void | [**writeImpl**](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDevice.html#writeImpl(short%5B%5D,%20int,%20int))(short[] samples, int offs, int len)            Template method to provide the implementation for writing audio samples to the audio device. |

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| **Methods inherited from class javazoom.jl.player.**[**AudioDeviceBase**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html) |
| [close](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#close()), [flush](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#flush()), [getDecoder](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#getDecoder()), [isOpen](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#isOpen()), [open](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#open(javazoom.jl.decoder.Decoder)), [setOpen](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#setOpen(boolean)), [write](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#write(short%5B%5D,%20int,%20int)) |

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| **Methods inherited from class java.lang.Object** |
| clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait |

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| **Constructor Detail** |

### JavaSoundAudioDevice

public **JavaSoundAudioDevice**()

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| **Method Detail** |

### setAudioFormat

protected void **setAudioFormat**(javax.sound.sampled.AudioFormat fmt0)

### getAudioFormat

protected javax.sound.sampled.AudioFormat **getAudioFormat**()

### getSourceLineInfo

protected javax.sound.sampled.DataLine.Info **getSourceLineInfo**()

### open

public void **open**(javax.sound.sampled.AudioFormat fmt)  
 throws [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

**Throws:** [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

### openImpl

protected void **openImpl**()  
 throws [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

**Description copied from class:** [**AudioDeviceBase**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#openImpl()) Template method to provide the implementation for the opening of the audio device.

**Overrides:**[openImpl](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#openImpl()) in class [AudioDeviceBase](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html) **Throws:** [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

### createSource

protected void **createSource**()  
 throws [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

**Throws:** [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

### millisecondsToBytes

public int **millisecondsToBytes**(javax.sound.sampled.AudioFormat fmt,  
 int time)

### closeImpl

protected void **closeImpl**()

**Description copied from class:** [**AudioDeviceBase**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#closeImpl()) Template method to provide the implementation for closing the audio device.

**Overrides:**[closeImpl](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#closeImpl()) in class [AudioDeviceBase](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html)

### writeImpl

protected void **writeImpl**(short[] samples,  
 int offs,  
 int len)  
 throws [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

**Description copied from class:** [**AudioDeviceBase**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#writeImpl(short%5B%5D,%20int,%20int)) Template method to provide the implementation for writing audio samples to the audio device.

**Overrides:**[writeImpl](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#writeImpl(short%5B%5D,%20int,%20int)) in class [AudioDeviceBase](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html) **Throws:** [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

### getByteArray

protected byte[] **getByteArray**(int length)

### toByteArray

protected byte[] **toByteArray**(short[] samples,  
 int offs,  
 int len)

### flushImpl

protected void **flushImpl**()

**Description copied from class:** [**AudioDeviceBase**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#flushImpl()) Template method to provide the implementation for flushing any buffered audio data.

**Overrides:**[flushImpl](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html#flushImpl()) in class [AudioDeviceBase](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html)

### getPosition

public int **getPosition**()

**Description copied from interface:** [**AudioDevice**](http://docs.google.com/javazoom/jl/player/AudioDevice.html#getPosition()) Retrieves the current playback position in milliseconds.

### test

public void **test**()  
 throws [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

Runs a short test by playing a short silent sound.

**Throws:** [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
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