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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) | | |  |
| [**PREV CLASS**](http://docs.google.com/javazoom/jl/decoder/FrameDecoder.html)   [**NEXT CLASS**](http://docs.google.com/javazoom/jl/decoder/InputStreamSource.html) | [**FRAMES**](http://docs.google.com/index.html?javazoom/jl/decoder/Header.html)    [**NO FRAMES**](http://docs.google.com/Header.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#1ci93xb) |

## **javazoom.jl.decoder**

Class Header

java.lang.Object  
 **javazoom.jl.decoder.Header**

public final class **Header**extends java.lang.Object

Class for extracting information from a frame header.

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| **Field Summary** | |
| static java.lang.String[][][] | [**bitrate\_str**](http://docs.google.com/javazoom/jl/decoder/Header.html#bitrate_str) |
| static int[][][] | [**bitrates**](http://docs.google.com/javazoom/jl/decoder/Header.html#bitrates) |
| short | [**checksum**](http://docs.google.com/javazoom/jl/decoder/Header.html#checksum) |
| static int | [**DUAL\_CHANNEL**](http://docs.google.com/javazoom/jl/decoder/Header.html#DUAL_CHANNEL) |
| static int | [**FOURTYEIGHT**](http://docs.google.com/javazoom/jl/decoder/Header.html#FOURTYEIGHT) |
| static int | [**FOURTYFOUR\_POINT\_ONE**](http://docs.google.com/javazoom/jl/decoder/Header.html#FOURTYFOUR_POINT_ONE) |
| int | [**framesize**](http://docs.google.com/javazoom/jl/decoder/Header.html#framesize) |
| static int[][] | [**frequencies**](http://docs.google.com/javazoom/jl/decoder/Header.html#frequencies) |
| static int | [**JOINT\_STEREO**](http://docs.google.com/javazoom/jl/decoder/Header.html#JOINT_STEREO) |
| static int | [**MPEG1**](http://docs.google.com/javazoom/jl/decoder/Header.html#MPEG1)            Constant for MPEG-1 version |
| static int | [**MPEG2\_LSF**](http://docs.google.com/javazoom/jl/decoder/Header.html#MPEG2_LSF)            Constant for MPEG-2 LSF version |
| static int | [**MPEG25\_LSF**](http://docs.google.com/javazoom/jl/decoder/Header.html#MPEG25_LSF) |
| int | [**nSlots**](http://docs.google.com/javazoom/jl/decoder/Header.html#nSlots) |
| static int | [**SINGLE\_CHANNEL**](http://docs.google.com/javazoom/jl/decoder/Header.html#SINGLE_CHANNEL) |
| static int | [**STEREO**](http://docs.google.com/javazoom/jl/decoder/Header.html#STEREO) |
| static int | [**THIRTYTWO**](http://docs.google.com/javazoom/jl/decoder/Header.html#THIRTYTWO) |

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| **Method Summary** | |
| int | [**bitrate\_index**](http://docs.google.com/javazoom/jl/decoder/Header.html#bitrate_index())()            Returns bitrate index. |
| int | [**bitrate\_instant**](http://docs.google.com/javazoom/jl/decoder/Header.html#bitrate_instant())()            Return Instant Bitrate. |
| java.lang.String | [**bitrate\_string**](http://docs.google.com/javazoom/jl/decoder/Header.html#bitrate_string())()            Return Bitrate. |
| int | [**bitrate**](http://docs.google.com/javazoom/jl/decoder/Header.html#bitrate())()            Return Bitrate. |
| int | [**calculate\_framesize**](http://docs.google.com/javazoom/jl/decoder/Header.html#calculate_framesize())()            Calculate Frame size. |
| boolean | [**checksum\_ok**](http://docs.google.com/javazoom/jl/decoder/Header.html#checksum_ok())()            Returns Checksum flag. |
| boolean | [**checksums**](http://docs.google.com/javazoom/jl/decoder/Header.html#checksums())()            Returns Protection bit. |
| boolean | [**copyright**](http://docs.google.com/javazoom/jl/decoder/Header.html#copyright())()            Returns Copyright. |
| int | [**frequency**](http://docs.google.com/javazoom/jl/decoder/Header.html#frequency())()            Returns Frequency. |
| int | [**getSyncHeader**](http://docs.google.com/javazoom/jl/decoder/Header.html#getSyncHeader())()            Returns synchronized header. |
| int | [**intensity\_stereo\_bound**](http://docs.google.com/javazoom/jl/decoder/Header.html#intensity_stereo_bound())()            Returns Intensity Stereo. |
| java.lang.String | [**layer\_string**](http://docs.google.com/javazoom/jl/decoder/Header.html#layer_string())()            Return Layer version. |
| int | [**layer**](http://docs.google.com/javazoom/jl/decoder/Header.html#layer())()            Returns Layer ID. |
| int | [**max\_number\_of\_frames**](http://docs.google.com/javazoom/jl/decoder/Header.html#max_number_of_frames(int))(int streamsize)            Returns the maximum number of frames in the stream. |
| int | [**min\_number\_of\_frames**](http://docs.google.com/javazoom/jl/decoder/Header.html#min_number_of_frames(int))(int streamsize)            Returns the maximum number of frames in the stream. |
| int | [**mode\_extension**](http://docs.google.com/javazoom/jl/decoder/Header.html#mode_extension())()            Returns Mode Extension. |
| java.lang.String | [**mode\_string**](http://docs.google.com/javazoom/jl/decoder/Header.html#mode_string())()            Returns Mode. |
| int | [**mode**](http://docs.google.com/javazoom/jl/decoder/Header.html#mode())()            Returns Mode. |
| float | [**ms\_per\_frame**](http://docs.google.com/javazoom/jl/decoder/Header.html#ms_per_frame())()            Returns ms/frame. |
| int | [**number\_of\_subbands**](http://docs.google.com/javazoom/jl/decoder/Header.html#number_of_subbands())()            Returns the number of subbands in the current frame. |
| boolean | [**original**](http://docs.google.com/javazoom/jl/decoder/Header.html#original())()            Returns Original. |
| boolean | [**padding**](http://docs.google.com/javazoom/jl/decoder/Header.html#padding())()            Returns Layer III Padding bit. |
| java.lang.String | [**sample\_frequency\_string**](http://docs.google.com/javazoom/jl/decoder/Header.html#sample_frequency_string())()            Returns Frequency |
| int | [**sample\_frequency**](http://docs.google.com/javazoom/jl/decoder/Header.html#sample_frequency())()            Returns Sample Frequency. |
| int | [**slots**](http://docs.google.com/javazoom/jl/decoder/Header.html#slots())()            Returns Slots. |
| java.lang.String | [**toString**](http://docs.google.com/javazoom/jl/decoder/Header.html#toString())() |
| float | [**total\_ms**](http://docs.google.com/javazoom/jl/decoder/Header.html#total_ms(int))(int streamsize)            Returns total ms. |
| int | [**vbr\_scale**](http://docs.google.com/javazoom/jl/decoder/Header.html#vbr_scale())()            Return VBR scale. |
| byte[] | [**vbr\_toc**](http://docs.google.com/javazoom/jl/decoder/Header.html#vbr_toc())()            Return VBR TOC. |
| boolean | [**vbr**](http://docs.google.com/javazoom/jl/decoder/Header.html#vbr())()            Return VBR. |
| java.lang.String | [**version\_string**](http://docs.google.com/javazoom/jl/decoder/Header.html#version_string())()            Returns Version. |
| int | [**version**](http://docs.google.com/javazoom/jl/decoder/Header.html#version())()            Returns version. |

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

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| **Field Detail** |

### frequencies

public static final int[][] **frequencies**

### MPEG2\_LSF

public static final int **MPEG2\_LSF**

Constant for MPEG-2 LSF version

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.MPEG2_LSF)

### MPEG25\_LSF

public static final int **MPEG25\_LSF**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.MPEG25_LSF)

### MPEG1

public static final int **MPEG1**

Constant for MPEG-1 version

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.MPEG1)

### STEREO

public static final int **STEREO**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.STEREO)

### JOINT\_STEREO

public static final int **JOINT\_STEREO**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.JOINT_STEREO)

### DUAL\_CHANNEL

public static final int **DUAL\_CHANNEL**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.DUAL_CHANNEL)

### SINGLE\_CHANNEL

public static final int **SINGLE\_CHANNEL**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.SINGLE_CHANNEL)

### FOURTYFOUR\_POINT\_ONE

public static final int **FOURTYFOUR\_POINT\_ONE**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.FOURTYFOUR_POINT_ONE)

### FOURTYEIGHT

public static final int **FOURTYEIGHT**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.FOURTYEIGHT)

### THIRTYTWO

public static final int **THIRTYTWO**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Header.THIRTYTWO)

### checksum

public short **checksum**

### framesize

public int **framesize**

### nSlots

public int **nSlots**

### bitrates

public static final int[][][] **bitrates**

### bitrate\_str

public static final java.lang.String[][][] **bitrate\_str**

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| --- |
| **Method Detail** |

### toString

public java.lang.String **toString**()

**Overrides:**toString in class java.lang.Object

### version

public int **version**()

Returns version.

### layer

public int **layer**()

Returns Layer ID.

### bitrate\_index

public int **bitrate\_index**()

Returns bitrate index.

### sample\_frequency

public int **sample\_frequency**()

Returns Sample Frequency.

### frequency

public int **frequency**()

Returns Frequency.

### mode

public int **mode**()

Returns Mode.

### checksums

public boolean **checksums**()

Returns Protection bit.

### copyright

public boolean **copyright**()

Returns Copyright.

### original

public boolean **original**()

Returns Original.

### vbr

public boolean **vbr**()

Return VBR.

**Returns:**true if VBR header is found

### vbr\_scale

public int **vbr\_scale**()

Return VBR scale.

**Returns:**scale of -1 if not available

### vbr\_toc

public byte[] **vbr\_toc**()

Return VBR TOC.

**Returns:**vbr toc ot null if not available

### checksum\_ok

public boolean **checksum\_ok**()

Returns Checksum flag. Compares computed checksum with stream checksum.

### padding

public boolean **padding**()

Returns Layer III Padding bit.

### slots

public int **slots**()

Returns Slots.

### mode\_extension

public int **mode\_extension**()

Returns Mode Extension.

### calculate\_framesize

public int **calculate\_framesize**()

Calculate Frame size. Calculates framesize in bytes excluding header size.

### max\_number\_of\_frames

public int **max\_number\_of\_frames**(int streamsize)

Returns the maximum number of frames in the stream.

**Parameters:**streamsize - **Returns:**number of frames

### min\_number\_of\_frames

public int **min\_number\_of\_frames**(int streamsize)

Returns the maximum number of frames in the stream.

**Parameters:**streamsize - **Returns:**number of frames

### ms\_per\_frame

public float **ms\_per\_frame**()

Returns ms/frame.

**Returns:**milliseconds per frame

### total\_ms

public float **total\_ms**(int streamsize)

Returns total ms.

**Parameters:**streamsize - **Returns:**total milliseconds

### getSyncHeader

public int **getSyncHeader**()

Returns synchronized header.

### layer\_string

public java.lang.String **layer\_string**()

Return Layer version.

### bitrate\_string

public java.lang.String **bitrate\_string**()

Return Bitrate.

**Returns:**bitrate in bps

### bitrate

public int **bitrate**()

Return Bitrate.

**Returns:**bitrate in bps and average bitrate for VBR header

### bitrate\_instant

public int **bitrate\_instant**()

Return Instant Bitrate. Bitrate for VBR is not constant.

**Returns:**bitrate in bps

### sample\_frequency\_string

public java.lang.String **sample\_frequency\_string**()

Returns Frequency

**Returns:**frequency string in kHz

### mode\_string

public java.lang.String **mode\_string**()

Returns Mode.

### version\_string

public java.lang.String **version\_string**()

Returns Version.

**Returns:**MPEG-1 or MPEG-2 LSF or MPEG-2.5 LSF

### number\_of\_subbands

public int **number\_of\_subbands**()

Returns the number of subbands in the current frame.

**Returns:**number of subbands

### intensity\_stereo\_bound

public int **intensity\_stereo\_bound**()

Returns Intensity Stereo. (Layer II joint stereo only). Returns the number of subbands which are in stereo mode, subbands above that limit are in intensity stereo mode.

**Returns:**intensity

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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) | | |  |
| [**PREV CLASS**](http://docs.google.com/javazoom/jl/decoder/FrameDecoder.html)   [**NEXT CLASS**](http://docs.google.com/javazoom/jl/decoder/InputStreamSource.html) | [**FRAMES**](http://docs.google.com/index.html?javazoom/jl/decoder/Header.html)    [**NO FRAMES**](http://docs.google.com/Header.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#1ci93xb) |

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