JLayer 1.0.1

JavaZOOM 1999-2008

Project Homepage :

http://www.javazoom.net/javalayer/javalayer.html

JAVA and MP3 online Forums :

http://www.javazoom.net/services/forums/index.jsp

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DESCRIPTION :

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JLayer is a library that decodes/plays/converts MPEG 1/2/2.5 Layer 1/2/3

(i.e. MP3) in real time for the JAVA(tm) platform. This is a non-commercial project

and anyone can add his contribution. JLayer is licensed under LGPL (see LICENSE.txt).

FAQ :

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- How to install JLayer ?

Before running JLayer you must set PATH and CLASSPATH for JAVA

and you must add jl1.0.1.jar to the CLASSPATH.

- Do I need JMF to run JLayer player ?

No, JMF is not required. You just need a JVM JavaSound 1.0 compliant.

(i.e. JVM1.3 or higher).

- How to run the MP3TOWAV converter ?

java javazoom.jl.converter.jlc -v -p output.wav yourfile.mp3

(Note : MP3TOWAV converter should work under jdk1.1.x or higher)

- How to run the simple MP3 player ?

java javazoom.jl.player.jlp localfile.mp3

or

java javazoom.jl.player.jlp -url http://www.aserver.com/remotefile.mp3

Note : MP3 simple player only works under JVM that supports JavaSound 1.0 (i.e JDK1.3.x+)

- How to run the advanced (threaded) MP3 player ?

java javazoom.jl.player.advanced.jlap localfile.mp3

- Does simple MP3 player support streaming ?

Yes, use the following command to play music from stream :

java javazoom.jl.player.jlp -url http://www.shoutcastserver.com:8000

(If JLayer returns without playing SHOUTcast stream then it might mean

that the server expect a winamp like "User-Agent" in HTTP request).

- Does JLayer support MPEG 2.5 ?

Yes, it works fine for all files generated with LAME.

- Does JLayer support VBR ?

Yes, It supports VBRI and XING VBR header too.

- How to get ID3v1 or ID3v2 tags from JLayer API ?

The API provides a getRawID3v2() method to get an InputStream on ID3v2 frames.

- How to skip frames to have a seek feature ?

See javazoom.jl.player.advanced.jlap source to learn how to skip frames.

- How much memory/CPU JLayer needs to run ?

Here are our benchmark notes :

- Heap use range : 1380KB to 1900KB - 370 classes loaded.

- Footprint : ~8MB under WinNT4/Win2K + J2SE 1.3 (Hotspot).

~10MB under WinNT4/Win2K + J2SE 1.4.1 (Hotspot).

- CPU usage : ~12% under PIII 800Mhz/WinNT4+J2SE 1.3 (Hotspot).

~8% under PIII 1Ghz/Win2K+J2SE 1.3.1 (Hotspot).

~12% under PIII 1Ghz/Win2K+J2SE 1.4.1 (Hotspot).

~1% under PIII 1Ghz/Win2K+J2SE 1.5.0 (Hotspot).

- How to contact JLayer developers ?

Try to post a thread on Java&MP3 online forums at :

http://www.javazoom.net/services/forums/index.jsp

You can also contact us at jlayer@javazoom.net for contributions.

KNOWN PROBLEMS :

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99% of MP3 plays well with JLayer but some (1%) return an ArrayIndexOutOfBoundsException

while playing. It might come from invalid audio frames.

Workaround : Just try/catch ArrayIndexOutOfBoundsException in your code to skip

non-detected invalid frames.