

com.mobvcasting.mjpegparser

Class HTTPAuthenticator

java.lang.Object
java.net.Authenticator
com.mobvcasting.mjpegparser.HTTPAuthenticator

public class HTTPAuthenticator
extends java.net.Authenticator

From <http://www.walking-productions.com/noteslop/2010/04/20/motion-jpeg-in-flash-and-java/>

Nested Class Summary

Nested classes/interfaces inherited from class java.net.Authenticator
java.net.Authenticator.RequestorType

Constructor Summary

Constructors
Constructor and Description
HTTPAuthenticator(java.lang.String user, java.lang.String pass)

Method Summary

Methods	
Modifier and Type	Method and Description
protected java.net.PasswordAuthentication	getPasswordAuthentication()

Methods inherited from class java.net.Authenticator
getRequestingHost, getRequestingPort, getRequestingPrompt, getRequestingProtocol, getRequestingScheme, getRequestingSite, getRequestingURL, getRequestorType, requestPasswordAuthentication, requestPasswordAuthentication, requestPasswordAuthentication, setDefault

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

Constructor Detail

HTTPAuthenticator
public HTTPAuthenticator(java.lang.String user, java.lang.String pass)

Method Detail

getPasswordAuthentication
protected java.net.PasswordAuthentication getPasswordAuthentication()
Overrides:

getPasswordAuthentication in **class** java.net.Authenticator

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Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

com.charliemouse.cambozola.shared

Class Base64

java.lang.Object
com.charliemouse.cambozola.shared.Base64

```
public class Base64
extends java.lang.Object
```

com/charliemouse/cambozola/shared/CamStream.java
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See Also:

CamStream for more information.

Constructor Summary

Constructors

Constructor and Description
Base64 ()

Method Summary

Methods

Modifier and Type	Method and Description
static java.lang.String	encode (byte[] data) Returns base64 representation of specified byte array.
static java.lang.String	encode (byte[] data, int off, int len) Returns base64 representation of specified byte array.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Base64

public Base64 ()

Method Detail

encode

```
public static java.lang.String encode(byte[] data)
```

Returns base64 representation of specified byte array.

Parameters:

`data` - The data to be encoded

Returns:

The base64 encoded data

encode

```
public static java.lang.String encode(byte[] data,  
                                     int off,  
                                     int len)
```

Returns base64 representation of specified byte array.

Parameters:

`data` - The data to be encoded

`off` - The offset within the data at which to start encoding

`len` - The length of the data to encode

Returns:

The base64 encoded data

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com.charliemouse.cambozola.shared

Class CamStream

java.lang.Object
 java.lang.Thread
 com.charliemouse.cambozola.shared.CamStream

All Implemented Interfaces:

java.lang.Runnable

```
public class CamStream
extends java.lang.Thread
```

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A few minor modifications to reduce latency have been made by Kevin Parker These modifications are intended to improve the speed/performance of MJPEG reading (latency has been reduced on my machine by another 10-20 ms; this is per-frame, so there are hundreds of ms of "waiting" reduced away. There are probably more changes that can still be made to greatly improve performance.)

I (Kevin Parker) made several changes to the following code. These include the following. I made the JPEG data stream pipe directly into the parser, rather than loading the whole image into a buffer before parsing. I made a couple of minor changes, one of which was reducing some of the sleep lengths. I also did some minor code auto-cleanup. Finally, I added several comments and javadocs. (I also altered m_retryDelay and removed some unused member variables).

This is not the full version of the Cambozola code, and it has many modifications to make it better suit the needs of a fast-paced FRC tournament. I also changed or removed unneeded pieces of these files.

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler

Field Summary

Fields

Modifier and Type	Field and Description
static int	CONNECT_STYLE_HTTP
static int	CONNECT_STYLE_SOCKET

Fields inherited from class java.lang.Thread

MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY

Constructor Summary

Constructors

Constructor and Description
CamStream (java.net.URL strm, java.lang.String app, java.net.URL docBase, int retryCount, int retryDelay, java.util.logging.Logger logger, boolean debug)

Method Summary

Methods

Modifier and Type	Method and Description
void	finalize()
java.awt.image.BufferedImage	getCurrent()
double	getFPS()
int	getIndex()
java.net.URL	getStreamURL()
java.lang.String	getType()
void	run()
void	unhook()

Methods inherited from class java.lang.Thread

[activeCount](#), [checkAccess](#), [clone](#), [countStackFrames](#), [currentThread](#), [destroy](#), [dumpStack](#), [enumerate](#), [getAllStackTraces](#), [getContextClassLoader](#), [getDefaultUncaughtExceptionHandler](#), [getId](#), [getName](#), [getPriority](#), [getStackTrace](#), [getState](#), [getThreadGroup](#), [getUncaughtExceptionHandler](#), [holdsLock](#), [interrupt](#), [interrupted](#), [isAlive](#), [isDaemon](#), [isInterrupted](#), [join](#), [join](#), [join](#), [resume](#), [setContextClassLoader](#), [setDaemon](#), [setDefaultUncaughtExceptionHandler](#), [setName](#), [setPriority](#), [setUncaughtExceptionHandler](#), [sleep](#), [sleep](#), [start](#), [stop](#), [stop](#), [suspend](#), [toString](#), [yield](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

Field Detail

CONNECT_STYLE_HTTP

```
public static final int CONNECT_STYLE_HTTP
```

See Also:

[Constant Field Values](#)

CONNECT_STYLE_SOCKET

```
public static final int CONNECT_STYLE_SOCKET
```

See Also:

[Constant Field Values](#)

Constructor Detail

CamStream

```
public CamStream(java.net.URL strm,
                 java.lang.String app,
                 java.net.URL docBase,
                 int retryCount,
                 int retryDelay,
                 java.util.logging.Logger logger,
                 boolean debug)
```

Method Detail

finalize

```
public void finalize()
    throws java.lang.Throwable
```

throws java.lang.Throwable

Overrides:

finalize in class java.lang.Object

Throws:

java.lang.Throwable

getCurrent

```
public java.awt.image.BufferedImage getCurrent()
```

getFPS

```
public double getFPS()
```

getIndex

```
public int getIndex()
```

getStreamURL

```
public java.net.URL getStreamURL()
```

getType

```
public java.lang.String getType()
```

run

```
public void run()
```

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

unhook

```
public void unhook()
```

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com.charliemouse.cambozola.shared

Class StreamSplit

java.lang.Object
com.charliemouse.cambozola.shared.StreamSplit

```
public class StreamSplit
extends java.lang.Object
```

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See Also:

[CamStream](#) for more information.

Field Summary

Fields

Modifier and Type	Field and Description
static java.lang.String	BOUNDARY_MARKER_PREFIX
static java.lang.String	BOUNDARY_MARKER_TERM
protected java.io.DataInputStream	m_dis

Constructor Summary

Constructors

Constructor and Description
StreamSplit (java.io.DataInputStream dis)

Method Summary

Methods

Modifier and Type	Method and Description
protected static void	addPropValue (java.lang.String response, java.util.Hashtable ht)
java.io.InputStream	getStreamToReadToBoundary (java.lang.String boundary)
boolean	isAtStreamEnd ()
java.util.Hashtable	readHeaders ()
static java.util.Hashtable	readHeaders (java.net.URLConnection conn)
void	skipToBoundary (java.lang.String boundary)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

BOUNDARY_MARKER_PREFIX

```
public static final java.lang.String BOUNDARY_MARKER_PREFIX
```

See Also:

[Constant Field Values](#)

BOUNDARY_MARKER_TERM

```
public static final java.lang.String BOUNDARY_MARKER_TERM
```

See Also:

[Constant Field Values](#)

m_dis

```
protected java.io.DataInputStream m_dis
```

Constructor Detail

StreamSplit

```
public StreamSplit(java.io.DataInputStream dis)
```

Method Detail

readHeaders

```
public java.util.Hashtable readHeaders()  
                             throws java.io.IOException
```

Throws:

[java.io.IOException](#)

addPropValue

```
protected static void addPropValue(java.lang.String response,  
                                     java.util.Hashtable ht)
```

readHeaders

```
public static java.util.Hashtable readHeaders(java.net.URLConnection conn)
```

skipToBoundary

```
public void skipToBoundary(java.lang.String boundary)  
                           throws java.io.IOException
```

Throws:

[java.io.IOException](#)

getStreamToReadToBoundary

```
public java.io.InputStream getStreamToReadToBoundary(java.lang.String boundary)  
                                                         throws java.io.IOException
```

Throws:

java.io.IOException

isAtStreamEnd

public boolean isAtStreamEnd()

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