OVERVIEW PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

client

Class TCPClient.runtimeThr

java.lang.Object java.lang.Thread client.TCPClient.runtimeThr

All Implemented Interfaces:

java.lang.Runnable

Enclosing class:

TCPClient

public static class TCPClient.runtimeThr
extends java.lang.Thread

Author:

hector, adonias, gary, henna - The runtime thread will serve as the connection between the upper threads and the local and network threads. The ConcurrentLinkedQueue requestQueue and returnQueue will be stored here. These Queues will store data objects that specify the requesting thread, the requested command, and the response. The runtime thread will execute an infinite loop, checking for new data object requests and spawning either a network thread, or a local thread depending on the request type. Once spawned, the request will be considered as processing and will be de-queued from the Queue.

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

java.util.concurrent.ConcurrentLinkedQueue<Data> requestQueue

java.util.concurrent.ConcurrentLinkedQueue<Data> returnQueue

Fields inherited from class java.lang.Thread

MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY

Constructor Summary

Constructors

Constructor and Description

runtimeThr()

Method Summary

All Methods	Instance Methods	Concrete Methods		
Modifier and Ty	pe Method and	Method and Description		
void add(Data command) This function will be used by upper threads to add their data requests to the runtime thread's ConcurrentQueueList.				
Data getResponse() This function will be used runtime thread's Concurr		n will be used by upper t	hreads to retrieve their requests from the list responseQueue.	
void	run()	run()		

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, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

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

Field Detail

requestQueue

public java.util.concurrent.ConcurrentLinkedQueue<Data> requestQueue

returnQueue

public java.util.concurrent.ConcurrentLinkedQueue<Data> returnQueue

Constructor Detail

runtimeThr

public runtimeThr()

Method Detail

run

public void run()

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

add

public void add(Data command)

This function will be used by upper threads to add their data requests to the runtime thread's ConcurrentQueueList.

Parameters:

command - - The data object containing the information request and information of the requesting upper thread.

getResponse

public Data getResponse()

This function will be used by upper threads to retrieve their requests from the runtime thread's ConcurrentQueueList responseQueue.

Parameters:

command - - The data object containing the updated response to the initial
information request.

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