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client

Class TCPClient

java.lang.Object
client.TCPClientclass **TCPClient**
extends java.lang.Object

Author:

hector, adonias, gary, henna. This class will contain the components of the client. The components consist of the Runtime thread, the upper threads, the local thread, and the network thread. Uthreads will communicate with runtime threads to queue requests for information and unqueue responses. The runtime thread will deploy requests by spawning either local or network threads and then unqueueing the requests. The spawned local or network thread will execute the request, update response and then queue the response. A data class will contain the request type and all relevant information to identify the requesting uthread. Each uthread will send 20 requests and wait for their response on each iteration.

Nested Class Summary

Nested Classes

Modifier and Type	Class and Description
(package private) static class	TCPClient.localThr
(package private) static class	TCPClient.networkThr
static class	TCPClient.runtimeThr
(package private) static class	TCPClient.uThr

Field Summary

Fields

Modifier and Type	Field and Description
static TCPClient.runtimeThr	runtime Runtime thread object.
(package private) static java.util.ArrayList< TCPClient.uThr >	upperThreads

These are the uThreads that will determine the data request type.

Constructor Summary

Constructors

Constructor and Description

`TCPClient()`

Method Summary

All Methods

Static Methods

Concrete Methods

Modifier and Type	Method and Description
static void	<code>main(java.lang.String[] argv)</code> The main function will start the runtime thread and initialize 8 upper threads, storing each within the ArrayList of upper threads.

Methods inherited from class `java.lang.Object`

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

Field Detail

runtime

`public static TCPClient.runtimeThr runtime`

Runtime thread object. This is declared as global in order to interact with the various levels of the client.

upperThreads

`static java.util.ArrayList<TCPClient.uThr> upperThreads`

These are the uThreads that will determine the data request type. The data request type will be nextEven, nextOdd, nextLargeRand, nextFibb, nextPrime.

Constructor Detail

TCPClient`TCPClient()`**Method Detail****main**

```
public static void main(java.lang.String[] argv)
    throws java.lang.Exception
```

The main function will start the runtime thread and initialize 8 upper threads, storing each within the ArrayList of upper threads. The upper threads will be immediately started after their initialization.

Parameters:

argv - - default string array

Throws:

java.lang.Exception - - thread runtime exceptions.

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