

# JNet.1.0.1 documentation

JNet.1.0.1 is the release 1.1 of the JNet package. JNet is a set of wrapper classes for UNIX (BSD) sockets. The lucrative feature of this package is that it resembles java.net package in having the same class names, method names, method semantics etc. We aim to incorporate all classes defined in java.net but it currently (rel 1.0.1) supports only Socket, ServerSocket, InetAddress, DatagramPacket and DatagramSocket classes.

This document does not actually document the class library, as it is unnecessary. If you are familiar with Socket programming in Java then you should be familiar with JNet. Javadoc will also serve as a document for JNet. This document will only highlight the differences, if any, between java.net and JNet.

## **Status:**

1. Supports Socket, ServerSocket, InetAddress, DatagramPacket and DatagramSocket classes.
2. Lacks Exceptions because not all C++ compilers support exceptions.

## **TODO:**

1. Implement URL class.
2. Port this library to Windows® using Winsock.
3. Implement an Exception-based design on GNU C++

## **Notes:**

The lack of exceptions in most C++ compilers is overcome by a test() method in the classes to perform the classical error checking. For more details, see the echo server and client code samples provided with the package (net\_es.cpp and net\_ec.cpp).

Also Java programmers will notice the lack of getInputStream() and getOutputStream() methods. This was done deliberately, as the C++ iostream classes do not fit in so neatly as the java.io streams. Instead you have send and rcv methods that allows users the freedom of buffer management which suites the application.

Delip Rao ([deliprao@yahoo.com](mailto:deliprao@yahoo.com))

Srivasa N. Chennu ([srivasnchennu@yahoo.com](mailto:srivasnchennu@yahoo.com))