

CO324 Lab 06: Stream Sockets

Objectives

You should learn,

- The differences between datagram and stream sockets.
- Use of thread pools to build concurrent servers.

References

- <https://docs.oracle.com/javase/tutorial/essential/io/file.html>
- <http://docs.oracle.com/javase/tutorial/essential/concurrency/pools.html>

Exercises

1. Write a **serial** (non-threaded) web server. It should be capable of serving GET requests for text/html and image/jpeg resources. The server should set the Content-type and Content-length headers based on the file type and size. Hint: you may find `java.nio.file.File` (specifically the `probeContentType()` method) useful.
2. Use **thread pools** to make the web server handle requests concurrently.