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CSCD330 Assignment #3 Part 2

What is a port?

A connection place.

What is the difference between the ports in the range 1 - 1023 and the higher level ports?

1 - 1023 is reserved for certain privileged services. After that the rest are just more ports that are not reserved.

What is an ephemeral port? Give an example of one.

Short lived transport protocol port for IP communications.Usually used for TCP and UDP. SSH is a great example of this.

Is there a difference between Java's implementation of UDP and TCP protocols. Explain the differences.

TCP has more options and methods at which you can problem to/utilities/etc. UDP does not have the same options. Though both are valid when creating new sockets. TCP is basically depends on an on going connection and is very reliable. TCP sends things in segments. UDP is not as reliable, it sends things all at once, but it is useful for things that need to be streamed. You can then get the item in its entirety and then be able to see it seamlessly.

Why does http rely on TCP and not UDP?

It uses TCP because HTTP relies more on reliability than latency. HTTP needs the reliability so it can get all the requests by the client. The client may send lots and lots of requests.

Investigate an application program. A game, P2P program such as Bit Torrent or other Internet non-web based program and state which transport protocol it uses and which registered port it uses.

BitTorrent uses 6881-6889 as its ports, and it uses mostly TCP. Though it does also uses
a UDP based protocol called uTP as well.