

REMOTE COMPUTING – COMMUNICATING OVER A NETWORK

Networks:

- Telephone similarity – phone number
- Internet DSL or Cable modem
- PPP phone connection

Protocols:

Method of sending digital data over network, language

Application layer protocols

HTTP - formatted web page content.

SMTP – Simple mail transport protocol between mail servers

POP or IMAP – method of requesting mail from server

FTP – file transfer protocol for moving files between computers

TELNET – login to other computers on network

New protocols:

- P2P – file sharing, using many sources

- IM – instant messaging, AIM, Jabber

- CHAT - Internet Relay Chat

- SIP – session initiation protocol, supports multiparty or multicast sessions of audio and video content

- XMPP – extensible message presence, i.e. Google talk

Transport layer protocols

TCP – transmission control protocol, used for carrying the above protocols

RTP – real-time transport protocol, used for sending audio and video

Security:

- Older protocols are insecure as data is sent unencrypted.

- Cryptographic protocols:

 - SSL – secure socket layer, Netscape method to secure HTTP

 - TLS – Transport Layer Security, used to secure new protocols

More information on protocols:

- <http://en.wikipedia.org/wiki/Portal:Contents>