

ITS 332 Networking Lab

Definitions and Acronyms

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1 Acronyms

ARP Address Resolution Protocol. Given an IP address, determines the corresponding MAC address. ARP at Network Sorcery: <http://www.networksorcery.com/enp/protocol/arp.htm>. IETF RFC 826: <http://www.ietf.org/rfc/rfc826.txt>

CSS Cascading Style Sheets.

DHCP Dynamic Host Configuration Protocol. Allows IP addresses (and other information like DNS servers and netmasks) to be automatically assigned to computers in a network (rather than the user/administrator assigning the IP address manually). Requires the computer to be configured to use DHCP, and a DHCP server to be running on the local network. IETF RFC 2131: <http://www.ietf.org/rfc/rfc2131.txt>

DNS Domain Name System. Used to find the IP address that corresponds to the computer with a given domain name. Perform DNS queries at <http://www.dnsstuff.com/>.

HTML HyperText Markup Language. Language commonly used for creating web pages. W3C HTML Specification: <http://www.w3.org/MarkUp/>

HTTP HyperText Transfer Protocol. Transfer web content, often HTML but now many other formats, between a client and server. W3C HTTP Specification: <http://www.w3.org/Protocols/>

ICMP Internet Control Message Protocol. Testing and diagnosing problems in the Internet. Applications such as `ping` and `traceroute` often use ICMP. ICMP at Network Sorcery: <http://www.networksorcery.com/enp/protocol/icmp.htm>

IEEE Institute of Electrical and Electronic Engineers. Professional society, which includes a standards organisation that has produced many LAN standards, as well as electrical/electronic interface standards. <http://www.ieee.org/>

IETF Internet Engineering Task Force. Technical organisation that produces standards (and other documents), known as RFCs, for many Internet technologies. Examples: IP, TCP and .

IP Internet Protocol.

LAN Local Area Network. Examples: IEEE 802.3 Ethernet, IEEE 802.11 Wireless LAN, Token Ring.

RFC Request For Comment. A type of document published by IETF. It may be an official standard, advice, experimental protocol or informal discussion document.

RTT Round Trip Time. The propagation time from a source to destination and back to source.

TCP Transmission Control Protocol.

UDP User Datagram Protocol.

W3C World Wide Web Consortium. Standards organisation that produces standards for the web, such as HTML, XML and CSS.

WAN Wide Area Network. Examples: PDH, SDH, ATM, Frame Relay.

XML eXtensible Markup Language.

2 Units

The following may differ from standard practice. That is, the definitions may not always be true under all conditions - they are chosen mainly for the simplicity of the classes.

- bit
- Bytes
- second