Chapter 20

- 20.1 No solution needed.
- 20.2 No solution needed.
- 20.3 No solution needed.
- 20.4 System calls on our BSD system and a library call on Solaris (in section 3C).
- 20.5 It is defined as 512 in the /usr/include/limits.h and /usr/include/syslimits.h files on our BSD system. It means the max bytes that can be atomically written in a pipe. It is also the size of the pipe, which is implemented as a circular buffer.
- 20.6 Browse through http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml to obtain the answer for the question.
- 20.7 40 domains (i.e., address families) have been defined (too many to list here). When allocating a new AF_ constant after 37, only even numbered constants allocated for FreeBSD until 134, because odd numbered AF_ constants starting with 39 and up to 133 are now reserved for vendors.
 - As for services, five service types have been defined as SOCK_STREAM, SOCK DGRAM, SOCK RAW, SOCK RDM, and SOCK SEQPACKET.
- 20.8 (Page 902: It should be Exercise 20.8 and not 20.7. Please correct the numbers of subsequent exercises in this chapter accordingly.)No solution needed.
- 20.9 No solution needed.
- 20.10 No solution needed.
- 20.11 No solution needed.
- 20.12 No solution needed.
- 20.13 No solution needed.
- 20.14 No solution needed.
- 20.15 No solution needed.
- 20.16 No solution needed.
- 20.17 No solution needed.
- 20.18 No solution needed.
- 20.19 No solution needed.
- 20.20 No solution needed.
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- 20.22 No solution needed.
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- 20.24 No solution needed.
- 20.25 No solution needed.
- 20.26 No solution needed.
- 20.27 No solution needed.
- 20.28 See the /etc/services file on your system to get answer to the question.
- 20.29 Numerical value assigned to UDP is 17. A total of 145 (0-142, 240, and 258) protocols have been assigned values.
- 20.30 Many clients including SSH, FTP, Telnet, and HTTP. Why these services need to use concurrent clients is explained in Section 20.11.