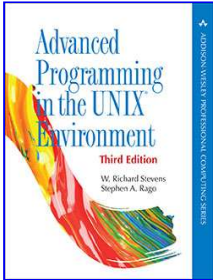


Advanced Programming in the UNIX® Environment, Third Edition



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The following errors haven't yet been fixed in any printing.

1. The bibliography is missing an entry for Bovet & Cesati [2006], which is mentioned on page 74. The reference should be:
Bovet, D. P. and Cesati, M. Understanding the Linux Kernel, Third Edition. O'Reilly Media, Sebastopol, CA.
2. On page 929 (Appendix C), Exercise 13.3 should be labeled 13.4.
3. Pages 307 and 309 refer to Figure 9.13. It should be 9.12.
4. On page 842, the `printer_status` function has a bug that will potentially affect RISC-based platforms when the IPP header isn't aligned properly. Instead of

```
struct ipp_hdr *hp;  
hp = (struct ipp_hdr *)cp;  
i = ntohs(hp->status);  
jobid = ntohl(hp->request_id);
```

the code should be

```
struct ipp_hdr h;  
memcpy(&h, cp, sizeof(struct ipp_hdr));  
i = ntohs(h.status);  
jobid = ntohl(h.request_id);
```

5. Figure 17.14 exposes a bug in most 64-bit versions of Linux that results in `msg_controllen` being updated improperly. To work around the problem, change

```
if (msg.msg_controllen != CONTROLLLEN)
```

to

```
if (msg.msg_controllen < CONTROLLLEN)
```

The same problem affects `lib/recvfd.c` in the source code for the APUE library.

6. The `add_worker` function on page 828 doesn't set up the linked list properly. The problem only shows up when there is more than one request being processed at the same time. Instead of

```
if (workers == NULL)
    workers = wtp;
else
    workers->prev = wtp;
```

the code should be

```
if (workers != NULL)
    workers->prev = wtp;
workers = wtp;
```

7. Figure 16.4 on page 592 lists section 3.3 as the reference for `close`. It should be section 3.5.
8. On page 305, the second line from the top contains the phrase "encrypted correctly;" it should be "decrypted correctly" (the cited example is using the `crypt` command to decrypt the file for printing).
9. On pages 127 and 910, references to the `utime` function should instead refer to the `utimes` function.
10. On page 148, the last paragraph refers to Figure 5.3. It should be Figure 5.2.
11. On page 331, the last sentence before the example refers to `sigsetjmp`. It should be `siglongjmp`.
12. On page 416, the reference to `cond_signal` should instead be `pthread_cond_signal`.
13. On page 493, the locks are linked from the v-node structure, not the i-node structure.
14. On page 632, the last sentence begins with "Well," but it should be "We'll."
15. On page 834, "Universal Resource Identifier" should be "Uniform Resource Identifier."
16. On page 957, "`cat` constant" should be removed.
17. On page 982, "`_SC_NZERO` function" should be "`_SC_NZERO` constant."
18. On page 321, in the description for `SIGTTOU`, `write` will fail as described only in case (b).
19. On page 378, the `sig_tstp` signal handler has a race. It shouldn't unblock `SIGTSTP` until after the call to `kill`.

20. On page 950, The Linux Programming Interface is published by No Starch Press (not "No Startch Press").
21. On the first line on page 639, the argument to `malloc` is `sizeof(un.sun_path + 1)`, but it should be `sizeof(un.sun_path) + 1`.
22. On page 250, the third full paragraph from the bottom of the page ends with "three functions." It should be "four functions."
23. On page 252, the discussion of the `type -f` option for the `find` command should be the `-type f` option.
24. On page 111, the description of the `du` command's behavior is reversed. When the `POSIXLY_CORRECT` environment variable is set, `du` reports 512-byte block units. Otherwise, it defaults to 1,024-byte units.
25. On page 234, the note discussing the history of `vfork` mentions that it originated in 2.9 BSD, but it first showed up in 3BSD.
26. On page 155, the file sizes and times are messed up in Figure 5.6. Some are from the second edition and some are from the third. Because systems got faster between the two editions, I had to use larger files in the third edition, and I transcribed the numbers wrong.
27. On page 820, it says the `job` structure is defined in `print.h`, but it's actually defined at the beginning of `printd.c`.