

BSD UNIX



This Chapter was first written in 1991 and has been modified over time

In Chapter 21, we presented an in-depth examination of the Linux operating system. In this chapter, we examine another popular UNIX version—UnixBSD. We start by presenting a brief history of the UNIX operating system. We then describe the system’s user and programmer interfaces. Finally, we discuss the internal data structures and algorithms used by the FreeBSD kernel to support the user–programmer interface.

Bibliographical Notes

[McKusick et al. (2015)] provides a good general discussion of FreeBSD. A modern scheduler for FreeBSD is described in [Roberson (2003)]. Locking in the Multithreaded FreeBSD Kernel is described in [Baldwin (2002)].

FreeBSD is described in *The FreeBSD Handbook*, which can be downloaded from <http://www.freebsd.org>.

Bibliography

[Baldwin (2002)] J. Baldwin, “Locking in the Multithreaded FreeBSD Kernel”, *USENIX BSD* (2002).

[McKusick et al. (2015)] M. K. McKusick, G. V. Neville-Neil, and R. N. M. Watson, *The Design and Implementation of the FreeBSD UNIX Operating System - Second Edition*, Pearson (2015).

[Roberson (2003)] J. Roberson, “ULE: A Modern Scheduler For FreeBSD”, *Proceedings of the USENIX BSDCon Conference* (2003), pages 17–28.

