

# BSD UNIX

An introduction to 4.4 BSD

# A brief history of BSD

- Ken Thompson, AT&T UNIX
- First BSD release in 1978
- Berkeley adds TCP/IP to BSD for DoD in 80's
- AT&T-free release with 4.3BSD
- Jolitz ports BSD to BSD386
- USL (AT&T) sues BSDi, Berkeley
- 4.4BSD-Lite released unencumbered

# Characteristics

- Good documentation (man pages)
- By developers, for developers
- Excellent TCP/IP stack
- Strict adherence to open standards
- BSD license

# Flavors

- FreeBSD
- NetBSD
- OpenBSD
- Darwin
- BSDi

# FreeBSD

- No strings attached
- High performing TCP/IP stack
- Used by Yahoo!
- Used by Hotmail



# NetBSD

- Extremely portable
  - 386
  - Sparc
  - Alpha
  - MIPS
  - M68k
  - Many, many more
- Large amounts of code shared with FreeBSD/OpenBSD, and vice versa
- KAME



# OpenBSD

- Secure by default
- Emphasis on correctness and peer review
- Regular license audits
- Released twice yearly



# Ports and Packages

- Ports - Framework for building packages, similar to Gentoo's emerge
- Packages - Binary packages built for specific version, similar to RPM
- Not compatible across the BSD flavors, although similar in design



# Links

- **The BSD Family Tree -**  
[http://www.daemonnews.org/200104/bsd\\_family.html](http://www.daemonnews.org/200104/bsd_family.html)
- **Voices from the Open Source Revolution -**  
<http://www.oreilly.com/catalog/opensources/book/kirkmck.html>
- **DaemonNews** - <http://www.daemonnews.org>
- **FreeBSD** - <http://www.freebsd.org/>
- **NetBSD** - <http://www.netbsd.org/>
- **OpenBSD** - <http://www.openbsd.org/>

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THE END