OpenBSD

A free BSD-copyrighted multi-platform OS with an emphasis on system security

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Focus

- BSD-copyrighted where possible
- Multi-platform
- Kernel reliability and new features
- Standards
- Innovation
- Free of US crypto export restrictions
- Security

Platforms

- **Many platforms supported**
  - **i386**
  - **alpha**
  - **amiga**
  - **hp300**
  - **sparc**
  - **mac68k**
  - **arc**
  - **mvme68k**
  - **pmax**

Standards

- **We have run the NIST FIPS 151-2 (PCTS - POSIX Certification Test Suite)**
- **Mostly POSIX compliant (not accredited by a testing lab)**
- **Starting to make efforts at conforming to XPG4**

Innovation

- Not afraid to steal free code from other projects
- Watch all NetBSD and FreeBSD changes, merge good changes
- Do lots of our own work as well

Cryptography

- OpenBSD is based out of Canada
- Permitted to re-export free non-US crypto software to the world at large
- Contains much crypto, KerberosIV, IPSEC
- All crypto written by developers outside the USA

Security

- Completed a comprehensive security audit of the source tree
  - Found security issues in just about every part of the system
  - Roughly 10 developers involved
  - Found many new holes
  - Many proactive changes too ("We fix the holes before we find them")
  - Found and fixed many non-security bugs at the same time.
- BUGTRAQ rarely catches us with our pants down (CERT? Never.)

Security Examples

- The run of the mill buffer overflow
- /tmp races, 800 or so
- flawed protocols, ie. ftp, DNS, RPC, NFS
- Denial of service issues
- Information gathering

Future

- Continue emphasis on integration of crypto
- Continue assimilating free code
- Continued search for security problems
- Soon, full IPv6 integration and completion of IPSEC

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- For more information start at http://www.OpenBSD.org
- Check http://www.OpenBSD.org/ftp.html for a list of FTP mirrors

Most recent release OpenBSD 2.2, CDROM's available for $30 USD. (The project is completely funded by CD sales)