OpenBSD

A free multi-platform Unix-like 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

Stability

Free of US crypto export restrictions

Security

Package subsystem

Platforms

Many platforms supported

i386 - All the standard PC machines with ISA/EISA/VLB/PCI (no MCA).
alpha - Most SRM-BIOS alpha machines.
amiga - All Amiga machines that have an MMU.
hp300 - HP 680x0 based machines, including the 68040 models.
sparc - Sun SUN4, SUN4C, and SUN4M machines. No Ultrasparc support.
mac68k - Apple 680x0 based machines.
arc - NT-running MIPS based machines made by various vendors.
mvme68k - Motorola MVME147, MVME162, MVMV167.
pmax - DecStations, R3000 based MIPS machines by DEC.
powerpc - various VME-based models. No Apple hardware yet.

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 partially conforming to The Open Group XPG series of standards.

Tracking defacto-standards as well.

Innovation

Not afraid to steal free code from other projects

Watch all NetBSD and FreeBSD changes, merge good changes

Constantly keeping an eye out for newer versions of GNU and other tools

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

Thus OpenBSD contains a lot of crypto:

- KerberosIV
- IPSEC and Photuris key exchange
- Stronger password files
- Strong random number use in numerous places

All crypto written by developers outside the USA. Our crypto comes from Canada, Sweden, Germany, Greece, Argentina, Australia, Norway

Security

We completed a comprehensive security audit of the source tree

Found security issues in just about every part of the system

Roughly 14 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 our search for security problems

Soon, full IPv6 integration and completion of IPSEC

Possibly merging SSL features into the system

Improve our package tools further

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We have been making a full release on CDROM and FTP every 6 months.We plan to continue this schedule.

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 2.3, CDROM's available for $30 USD.

(The project is largely funded by CD sales)