



# NetBSD

— Introducing NetBSD —



## What is the NetBSD Project?

The NetBSD Project gives you a complete Unix-like operating system that is up to today's Open Source and security standards, supporting industry-standard APIs, communication protocols, and a huge variety of hardware platforms. NetBSD is suited to a wide range of applications, from servers and workstations to PDAs and embedded systems.

NetBSD is often chosen to control newly developed hardware and to drive such products as network computers, single-board computers, internet appliances, firewalls, printers, copiers and even webcams. NetBSD is used in network development all over the world. ISPs use NetBSD because of the wide spectrum of network possibilities, and enthusiasts choose NetBSD for its excellent hardware support.

## Why is NetBSD so special?

Since NetBSD was founded in 1993 as a successor of the BSD-line, it has always been at the forefront of Open Source operating system development. NetBSD has been the complete foundation or reference for other projects. Many of NetBSD's advantages are not found in any other open source operating system.

- NetBSD offers support for 55 different hardware platforms and 17 CPU architectures. And even more will follow.

- POSIX threads implementation based on Scheduler Activations
- Cross compiling of the kernel and userland supported by the standard toolchain - build NetBSD almost anywhere, out of the box!
- Kernel events notification framework provides a stateful and efficient event notification, including socket, file, directory, fifo, pipe, tty and device changes
- Many security-specific features, including Verified Exec and the systrace framework are implemented in the base system.
- Complete source, including the history of the development, available via anonymous CVS, rsync, SUP and CVSweb
- Support for various network technologies including ATM, HIPPI, FDDI, HSSI, IEEE 802.11, Token-Ring, ARCnet and Ethernet (up to 10Gbps!)
- NetBSD was the first open source operating system to support USB, USB2, and PCMCIA audio.

## Use Your Favorite Tools and Applications

NetBSD contains all the features you would expect in an open source operating system today, including X11, tools for firewalls, and software RAID. With NetBSD's package tools you can install more than 5500 freely available software packages easily.

## Ideal for Embedded Environments

NetBSD is designed to minimize the effort needed to make it run on new hardware. As a result, you are able to concentrate on the development of the hardware.

NetBSD is particularly well suited to embedded environments. It supports many lower-power CPUs, such as ARM, MIPS, PowerPC, Xscale, and Hitachi SH 3/4/5. By removing optional components, NetBSD can be trimmed down to fit comfortably on very small systems. And of course tools are available to do cross-development. Both the toolchain and compilers support cross-compiling. Cross-compiling the kernel and the whole operating system is easily possible, as is cross-building whole distribution sets.

Make the decision—joining many Fortune 100 and Fortune 500 companies—to use NetBSD, the world’s most portable operating system, for your product.

## Security for Paranoids

With integrated firewall tools and tools that can be easily installed from our software archives—including IPsec, Kerberos 5, SSH, SSL, and encryption tools such as PGP—you have access to a modern security system.

NetBSD enforces non-executable mappings on many platforms. Stack and heap

mappings are non-executable by default, making exploitation of potential buffer overflows harder. NetBSD also supports PROT\_EXEC permission via mmap(2) for all platforms where the hardware differentiates execute access from data access.

In the public forums related to Security issues, such as the Bugtraq mailing list, NetBSD has always had fewer known security problems than the alternative solutions. One more reason security consultants choose NetBSD!

## Help is only an e-mail away!

In case of trouble you can find fast and unbureaucratic help through our mailing lists and the bug-tracking system. For more professional help, you’ll find many consultants listed at our website.

There is no phone support but your questions will be answered without wasting time listening to music while on hold.

## Don’t miss the connection

NetBSD has been growing since March 1993, longer than any other alternative solutions in the field of open source, and is today stronger than ever. We won’t disappear and leave you alone or stop supporting your platform. You can put your mind at ease knowing that the future development of your OS is in the hands of capable experts.

## Where do I get NetBSD?

- WWW: <http://www.NetBSD.org/>
- FTP: <ftp://ftp.NetBSD.org/pub/NetBSD/>
- CVS: <anoncvs@anoncvs.NetBSD.org:/cvsroot>
- CD/DVD: <http://www.NetBSD.org/Sites/cdroms.html>