The NetBSD Project

Chris Demetriou

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What is NetBSD?

- A free and complete BSD operating system
- Derived from Berkeley's Net/2 release
- Runs on multiple hardware platforms
- "Supported" by volunteers

NetBSD's Goals

- Provide a free, complete, stable BSD system
- Improvements, where necessary
- "Support" for popular platforms
- Avoid encumbering licenses

Summary:

> Provide a free system that professionals and hobbyists can use for whatever they want.

SLIDE 2 XXX (notes)

User-land Improvements

- Shared libraries!
- Approaching POSIX.2
- Filled in missing commands
- Keeping software up-to-date

We're focused on making NetBSD a "solid" system.

SLIDE 3 XXX (notes)

Kernel Improvements

- More architectures supported and enhanced
- Many file system-related improvements
- Approaching POSIX.1
- Networking improvements
- "Broken" kernel subsystems replaced or fixed

SLIDE 4 XXX (notes)

"Supported" Platforms:

- i386/i486
- Amiga
- HP 9000/300
- Macintosh (with 68020 and MMU or 68030)
- Sparc (sun4c)

Some of the ports in progress:

- DECstation
- Sun3

SLIDE 5 XXX (notes)

Additions and Improvements to the File Systems

- Many bug fixes to UFS
- Split NFS server and client code
- ISO-9660 file system (with Rock Ridge extensions)
- MS-DOS file system
- Union mounts
- /proc, and other “miscellaneous” file systems

SLIDE 6 XXX (notes)

Networking improvements:

- Multicast
- PPP

Work done on kernel subsystems:

- New buffer cache, `execve()`, `physio()`
- Lots of tty-handling fixes
- Ring buffers with CLIST interface

SLIDE 7 XXX (notes)

Compatibility with other systems

- BSDI binary compatibility
- SunOS binary compatibility
- POSIX
- Nearly 4.4BSD source-code compatible

It's easy to port software to NetBSD.

SLIDE 8 XXX (notes)

Future work on NetBSD

- POSIX conformance
- Further system integration
- 4.4BSD “Lite” – We’re still waiting!
- Better SCSI and autoconfiguration support
- Remote debugging support
- More platforms
- More file system work

SLIDE 9 XXX (notes)

Who does the work?

A "cast of thousands" of contributors including:

- CSRG, for Net/2 and for "BSD" in general
- The NetBSD core team
- Users who have sent in bug reports and fixes
- The "NetBSD-current" alpha-testers

We're *not* going away any time soon.

SLIDE 10 XXX (notes)

How to get NetBSD via anonymous FTP:

`agate.berkeley.edu [128.32.155.1]`

`pub/NetBSD`

NetBSD mailing lists:

`majordomo@sun-lamp.cs.berkeley.edu`

And if you have questions or comments:

- `netbsd-comments@sun-lamp.cs.berkeley.edu`
- Come talk to us privately
- Ask questions now!

SLIDE 11 Also:

- NetBSD-current: updated nightly
- SUP of current sources possible;
  `sun-lamp:pub/sup` for details