

*NEXTSTEP In Focus*, Spring 1994 (Volume 4, Issue 2).  
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# At Your Fingertips

*You can find answers to many NEXTSTEP system administration questions in NEXTSTEP In Focus. Past articles cover topics in the basics, working with NetInfo and NFS, security, configuring hardware, and more. Articles are available in NeXTanswers, so the information is right at hand whenever you need it.*

*To access NeXTanswers, send Internet e-mail to **NeXTanswers@next.com** with the words "help index" in the subject line. You'll receive instruction on how to use NeXTanswers via e-mail, ftp, Worldwide Web, and fax. Or, call (415) 780-3990 from within the US and request documents 1000 and 1001.*

## System Administration Basics

### Foolproof Guide to Backups

**Issue:** *support bulletin*, Spring 1992  
**NeXTanswers:** 1090  
**Author:** Andreas Sautter  
**Keywords:** administration, security, backup, reliability

Backing up the data on your computers is an integral part of day-to-day computer operations. This article tells you what data to back up and describes tried-and-true methods of performing various backup operations.

### Optimizing Virtual Memory with swaptab

**Issue:** *support bulletin*, Winter 1993  
**NeXTanswers:** 1020  
**Author:** Alan M. Marcum  
**Keywords:** administration, swapfile, **swaptab**, swap, page, backing store, performance, swaptimizer

In most cases, the default configuration of the NeXT virtual memory system is all you need. Sometimes,

though, customizing can improve a system's performance. This article explains the swapfile configuration, the virtual memory system's optimizer, and how to use multiple swapfiles.

### Prowling About in syslog

**Issue:** *support bulletin*, Winter 1993

**NeXTanswers:** 1016

**Author:** Dave Cottle

**Keywords:** **syslogd**, Console, message, **syslog.conf**

This article explains how the message logging system works and explores a few ways to customize it.

### fsck to the Rescue

**Issue:** *support bulletin*, Winter 1993

**NeXTanswers:** 1024

**Author:** Dave Cottle

**Keywords:** **fsck**, I/O, buffer, disk, file system, cache

This article explains what the block I/O buffer cache is, how file systems can be corrupted, and how the cache relates to the **fsck** command.

### Beware the Power of root

**Issue:** *support bulletin*, Summer 1991

**NeXTanswers:** 1027

**Keywords:** **root**, administration, security

Logging in as **root** gives you increased power over your system and its network. This is an important tool, but it also allows you to do serious damage if you use it incorrectly. This article gives suggestions on using **root** privileges safely.

## Networking and Connectivity

### Advanced Networking Tools

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1496

**Author:** Dan Peknik

**Keywords:** network, tool, administration, performance, topology, network diagram, congestion, collision, **netstat**, SNMP, **snmpnetstat**, **telnet**, **rsh**, **nfsstat**, network analyzer, sniffer, bridge, router, repeater, signal, NetInfo

In managing a large Ethernet network, you need to assess your network's performance and understand how it affects servers and clients. Several programs in UNIX and NEXTSTEP can help you collect diagnostic data. You can also use third-party tools to design and manage networks effectively.

**Options in E-Mail from Home**

**Issue:** *support bulletin*, Winter 1993

**NeXTanswers:** 1017

**Author:** John S. Karabaic

**Keywords:** connectivity, e-mail, **sendmail**, UUCP, leased line, telephone, modem, LAN, Ethernet, TCP/IP, AppleTalk, EtherTalk, ISDN, UNIX

This article explores the ways you can exchange e-mail from home and compares costs and benefits. It also details how to work with a UNIX dial-in connection.

**Inroads in Connectivity**

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1069

**Author:** Dave Cottle

**Keywords:** connectivity, Novell NetWare, Internet, LAN, Ethernet, IP, printers, namespace, AppleTalk, EtherTalk, ISDN, UNIX

Release 3.0 includes client software that lets you use your NeXT computer to access files and printers from a Novell NetWare or AppleTalk network. It also supports Integrated Services Digital Network (ISDN) communication. This article explains how to use these features.

**Behind the Scenes of NeXT Networking**

**Issue:** *support bulletin*, Summer 1992

**NeXTanswers:** 1013

**Author:** Marc Majka

**Keywords:** connectivity, Internet, LAN, Ethernet, IP, routers, IP addresses, netmask, UDP, TCP, port, **ftp**, **telnet**, **lpd**, SMTP, NFS, WindowServer, NTP, **lookupd**, NetInfo, Domain Name Service (DNS), Network Information Service (NIS)

This article examines fundamentals of NeXT networking and how to use a NeXT computer to take advantage of UNIX networking.

**Taking Your Network Home**

**Issue:** *support bulletin*, Summer 1992

**NeXTanswers:** 1008

**Author:** John Landwehr

**Keywords:** Ethernet, modems, telephone, NeXTmail, TCP/IP, dialup, Internet, networking, PPP, SLIP

You can use TCP/IP links to connect to remote networks at low cost. This article explains how they work and how to set them up.

**Dialing Up for Network Service**

**Issue:** *support bulletin*, Spring 1992

**NeXTanswers:** 1093

**Author:** Dennis Gentry

**Keywords:** TCP/IP, IP, WAN, LAN, dialup, Internet, networking, PPP, SLIP

It has become popular to use ordinary phone lines to connect physically isolated or frequently moved computers to networks. This article shows how mere mortals can connect NEXTSTEP computers in this way.

**NetInfo**

**Detecting Rogue Servers**

**Issue:** *NEXTSTEP In Focus*, Spring 1994

**Author:** Alan M. Marcum

**Keywords:** NetInfo, lookup, rogue, troubleshooting, master, clone, server, client,, property, key, value, **nicheck**, **netinfod**

Rogue servers are NetInfo servers that are set up improperly and wreak havoc on a network. Tracking them down can be tedious, but you can use a script to make the task easier.

**Getting Acquainted with NetInfo**

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1271

**Author:** Marc Majka

**Keywords:** NetInfo, lookup, **lookupd**, hierarchy, master, clone, server, client, database, update, parent, child, tag, domain, property, key, value, SimpleNetworkStarter, NFS Manager, User Manager, Print Manager, Host Manager, NetWare Manager, NetInfo Manager, **niutil**, **nidomain**, **niload**, **nidump**, NetInfo Kit

Because NetInfo is central to NEXTSTEP configuration and networking, it's useful for you to know what NetInfo does, how it's organized, and how you can use it to make your system administration tasks easier. This article introduces the basic concepts of NetInfo and gives you a roadmap to follow so you can learn more on your own.

### Typical NetInfo Setup

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1280

**Author:** Alan M. Marcum

**Keywords:** NetInfo, hierarchy, domain, **serves**, first-level, second-level, balance, example

This article presents a fictional NetInfo installation, which is used as an example in the other articles in this issue and in subsequent issues.

### Before NetInfo Starts

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1281

**Author:** Alan M. Marcum

**Keywords:** NetInfo, manual, automatic, Internet, Internet address, network mask, broadcast address, host name, netmask, subnet, configuration, troubleshooting

This article describes how a booting computer gets its Internet address, network mask, broadcast address, and host name. It also gives tips for making sure configuration works properly and describes the environment experienced by programs running prior to NetInfo's starting.

### NetInfo Lookup Server**lookupd**

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1275

**Author:** Alan M. Marcum

**Keywords:** lookup server, **lookupd**, NetInfo, DNS, NIS, **libc**, client, cache, local, printer, troubleshooting

This article explains what **lookupd** is and what it does, and gives tips on spotting and fixing problems that involve it.

## NetInfo Binding and Connecting

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1274

**Authors:** Alan M. Marcum and Marc Majka

**Keywords:** bind, connect, NetInfo, domain, hierarchy, **nibindd**, **netinfod**, parent, child, protocol, broadcasthost, **serves**

This article explains how domains find their parents, how clients find NetInfo servers, and the differences between the two processes.

## Propagating Updates

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1276

**Authors:** Alan M. Marcum and Garth Snyder

**Keywords:** database, master, clone, NetInfo, update, performance, update coalescing, startup

This article explains how update propagation works, including its performance optimizations and how it handles tricky updates.

## Tough Stuff

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1278

**Authors:** Alan M. Marcum and Marc Majka

**Keywords:** NetInfo, tough, master, server, domain, change, name, Internet address, **trusted\_networks**, troubleshooting, starting, routing, binding, **nibindd**, **netinfod**, port, failure, sleep, backup, recovery

This article addresses some subtle NetInfo issues: making changes that aren't as simple as you'd think: fixing mistakes in the property **trusted\_networks**, starting NetInfo by hand, figuring out where client processes are connected, understanding console messages, backing up the NetInfo database, and recovering from disasters.

## NEXTSTEP Networking References

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1273

**Author:** Alan M. Marcum

**Keywords:** NetInfo, references, networking, books, documentation

A list of useful sources of NetInfo and networking information referenced throughout the Summer 1993 issue.

## NetInfo Programming

**Issue:** *NEXTSTEP In Focus*, Winter 1994

**NeXTanswers:** 1595

**Author:** Marc Majka

**Keywords:** NetInfo, NetInfo Kit, programming, library, administration, connecting, hierarchy, interface, data types

The NetInfo programming library and NetInfo Kit provide tools for building your own administrative applications and utilities. These tools include a number of data structures and objects, plus library routines for accessing and manipulating NetInfo data. This article introduces this set of resources.

## Relating NetInfo to Classic UNIX

**Issue:** *support bulletin*, Winter 1991

**NeXTanswers:** 1060

**Author:** Alan M. Marcum

**Keywords:** NetInfo, UNIX, User Manager, Net Manager, NetInfo Manager, **niutil**, **niload**, **nidump**, NIS, DNS

NetInfo, NEXTSTEP's network administration system, supersedes many of the UNIX flat-file databases. NetInfo offers convenient mechanisms for loading and extracting data that it stores in traditional UNIX flat-file database format. This article explains the relationships between NetInfo and the UNIX databases. Specifically, it shows how NetInfo supersedes certain UNIX flat-file databases and interacts with them using **niload** and **nidump**, describes the various properties used by NetInfo, and lists UNIX administrative files referenced even when NetInfo is running.

## When One Server Isn't Enough

**Issue:** *support bulletin*, Winter 1993

**NeXTanswers:** 1021

**Author:** Dave Cottle

**Keywords:** mail, mail server, NetInfo, **sendmail**, Host Manager, NetInfo Manager, NFS Manager, alias,

gateway

If your NetInfo network is very large with many users and a huge volume of mail, you may find that using your root NetInfo server as the mail server doesn't fit the bill. With careful planning, you can restructure your network to include additional mail servers.

### Crash of the Master NetInfo Server

**Issue:** *support bulletin*, Winter 1993

**NeXTanswers:** 1026

**Author:** Dave Cottle

**Keywords:** NetInfo, master, clone, NFS, troubleshooting, crash, recovery, restore

This article explains how to recover when a network's master NetInfo server crashes.

### Simple Way to Start a Network

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1076

**Author:** Suzanne Ferry Chesson

**Keywords:** SimpleNetworkStarter, set up, NetInfo

The SimpleNetworkStarter application allows you to set up a new NEXTSTEP network, even if you're a novice system administrator. This article explains how to use it.

### Making Friends with niutil

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1071

**Author:** Dave Cottle

**Keywords:** **niutil**, NetInfo, UNIX, property, host, NetInfo Manager

**niutil** is a helpful utility for creating, examining, and destroying NetInfo directories and properties. It is simple but extremely powerful. This article explains when to use it and when to use NetInfo Manager, and how to use **niutil** safely.

### Mysteries of Binding and Propagating

**Issue:** *support bulletin*, Summer 1992

**NeXTanswers:** 1014

**Author:** Dave Cottle

**Keywords:** NetInfo, UNIX, **netinfod**, master, clone, **serves** property, binding, propagating, **lookupd**,



child, parent, host

To know how a NetInfo domain gets linked into a domain hierarchy or how clone servers really work, you must understand the inner workings of NetInfo. This article describes the basics and explains binding, rebinding, and propagating.

## Ways Not to Configure Your Network

**Issue:** *support bulletin*, Summer 1991

**NeXTanswers:** 1039

**Keywords:** **broadcasthost**, NetInfo domain, broadcast address, netmask, localhost, troubleshooting, loopback, NetInfoManager, **niutil**, **nidump**, **ifconfig**

Three network configuration errors that NetInfo administrators seem to make frequently are changing the address of **broadcasthost**, misconfiguring the broadcast address or netmask, and changing the address of localhost. This article explains how to avoid these problems. Examples: Don't change the **broadcasthost** address from 255.255.255.255, nor localhost address from 127.0.0.1.

# NFS

## NFS Performance Tuning

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1492

**Author:** Wayne Schroeder

**Keywords:** NFS, tuning, performance, mount, file system, Ethernet, adapter, read, write, **rsize**, **wsize**, **timeo**, **retrans**, cache, buffer, server, **autonfsmount**, mount, parameter, **mnttimeo**, **retry**, **fg**, **bg**, client, **retrans**, **soft**, **hard**, **rw**, **ro**, **acregmin**, **acregmax**, **acdirmin**, **acdirmax**, **noac**, test, 3Com EtherLink III, SMC EtherCard PLUS Elite 16, Intel EtherExpress, ALR Evolution IV DX-2/166 EISA, Conner, DPT, NeXTstation

Tuning NFS to work efficiently can both increase the speed at which you access NFS-mounted files and decrease the load on your network. This article explains the NFS tuning parameters you can set and shows you how to optimize the performance of Ethernet adapters on Intel-based PCs.

## Techniques for Using the Network File System

**Issue:** *support bulletin*, Summer 1991

**NeXTanswers:** 1035  
**Author:** Wayde Schroeder  
**Keywords:** NFS, NetInfo, **fstab**, **umount**, **exportfs**, **niload**, **nidump**, **disk**, NIS, NetBoot, troubleshooting

Understanding NFS is essential to administering NEXTSTEP networks. This article describes features and examples of mounts when the system starts up, by the **autonfsmount** command, and by hand using the **mount** command. It also details how to troubleshoot server hangs, missing login windows, mounts in **/Net**, NIS (Yellow Pages), direct maps, autonfsmounts not appearing in File Viewer, autonfsmounting **/private/Net**, and "access denied" errors. (This article is updated in "Using NFS Manager," [*support bulletin* Fall 1992], NeXTanswers #1978.)

**Using NFS Manager**

**Issue:** *support bulletin*, Fall 1992  
**NeXTanswers:** 1078  
**Author:** Wayde Schroeder  
**Keywords:** NFS, NFS Manager, NetInfo, export, import

NFS Manager offers a graphic interface to setting up and maintaining shared NFS directories. This article describes how to use NFS Manager to export and import (mount) remote directories, and shows which workarounds from previous releases aren't needed from Release 3.0 on.

# Security

**Staying Secure**

**Issue:** *NEXTSTEP In Focus*, Spring 1993  
**NeXTanswers:** 1128  
**Author:** Marc Majka  
**Keywords:** security, **root**, password, access control, NFS, **me**, **comp.security**, CERT, setuid, file system, NetInfo, UNIX, accounting, DOS, virus, worm, Trojan horse, bomb, back door

Computer security involves establishing safeguards and procedures to prevent system and data misuse and damage. This article examines risks that you can avoid and positive steps that you can take to make your system more secure.

**Security and the Computer Emergency Response Team**

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1075

**Keywords:** CERT, security, advisory, Internet, vulnerability

The Computer Emergency Response Team (CERT) is a clearinghouse for non-classified security-related information. This article explains how it works and how to use it to share and get information on known security vulnerabilities.

**Securing Your NeXT Computer on a WAN**

**Issue:** *support bulletin*, Spring 1992

**NeXTanswers:** 1086

**Author:** Lee Tucker

**Keywords:** UUCP, WAN, LAN, TCP/IP, security, firewall, NetInfo

The security of a local area network (LAN) or single NeXT computer becomes more complicated when either is attached to a wide area network (WAN). This article shows the basic steps for securing a computer that grants external access.

**From the Security Soapbox**

**Issue:** *support bulletin*, Summer 1992

**NeXTanswers:** 1008

**Keywords:** security, password, users

Passwords are essential for security. Here's what makes a good or bad password.

# SoftPC

**Using SoftPC for Intel**

**Issue:** *NEXTSTEP In Focus*, Winter 1994

**NeXTanswers:** 1597

**Author:** Joe Hollowood

**Keywords:** SoftPC, compatibility, preferences, hard disk drive, container file, UNIX, DOS, FSA drive, floppy disk drive, communication port, printer port, autoflush, PostScript, boot, memory, extended memory, expanded memory, display, full-screen mode, window mode, toggle, graphics, SuperVGA, VGA, print, CD-ROM, network, copy, paste, troubleshooting, permission, performance, cursor, bug,

Microsoft Windows, Novell NetWare

To get the most out of Insignia Solutions' SoftPC for NEXTSTEP on Intel-based computers, you should set its preferences appropriately and ensure that your system is configured properly. In addition, you can use a number of tricks and troubleshooting tips to optimize its performance.

**New SoftPC**

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1490

**Author:** Bob Lawton

**Keywords:** Release 3.2, SoftPC, emulation, Microsoft Windows, DOS, compatibility, performance, DPMI

NeXT has worked closely with Insignia Solutions to bring a high-quality, high-performance emulation application to NEXTSTEP for Intel Processors. You may have read about it in the pressÐnow check it out for yourself in NEXTSTEP Release 3.2. By running all your Windows applications inside a NEXTSTEP window, you can have the best of both worlds, in one seamlessly integrated environment.

# Printers

**New Options in Printing**

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1073

**Author:** Dave Cottle

**Keywords:** printer, NeXT Color Printer, bubble-jet, PrintManager, dot-matrix printer, Epson LQ510, IBM ProPrinter 24P, PostScript Printer Definition (PPD), LocalTalk, AppleTalk, Novell NetWare, NetInfo

NEXTSTEP Release 3 supports the NeXT Color Printer, two popular dot-matrix printers, and printers accessed through AppleTalk and Novell NetWare. This article explains how to connect to these printers.

**Printing with PostScript Devices**

**Issue:** *support bulletin*, Winter 1991

**NeXTanswers:** 1059

**Author:** Andrew Simms

**Keywords:** printer, PostScript, NeXT computer, **printcap**, EtherTalk, LocalTalk, AppleTalk, NetInfo, TCP/IP, spool, NIS, BIND, **zs**, **tty**, **lpd**, **lpr**, **lpc**, **lpq**, **ping**, **telnet**, **niload**, **nidump**, Net Manager, NetInfo

Manager, GatorKeeper

This article shows how to attach a PostScript output device to your network and configure NeXT computers to use it. Specifically, it shows how to make a network connection using a printer attached to a remote UNIX host, or with a GatorBox. It provides lots of info on baud rates, flow control, and cabling. It also lists which cables to use. (It doesn't cover how to install NeXT printers.)

# NEXTSTEP Releases

## What's New in Release 3.2?

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1489

**Author:** NeXT Product Marketing

**Keywords:** Release 3.2 user, upgrading, bug fixes, Intel-based, SoftPC, Header Viewer, Project Builder, File Merge, GDB, **.bundle**

Release 3.2 offers a variety of enhancements for users and developers. This article gives a brief overview of what's new.

## How We Tested NEXTSTEP for Intel Processors

**Issue:** *NEXTSTEP In Focus*, Spring 1993

**NeXTanswers:** 1126

**Author:** Jim Walsh

**Keywords:** testing, Intel-based, Release 3.1

Testing NEXTSTEP for Intel Processors presented a unique situation for NeXT. Although the software was in its third generation on NeXT's proprietary hardware, NEXTSTEP Release 3.1 was the initial release on Intel's line of microprocessors. The goal was to have the same level of product maturity on Intel-based platforms as on hardware NeXT designed and controlled. We were aided by the nature and design of NEXTSTEP itself.

## Taking the Wraps Off Release 3

**Issue:** *support bulletin*, Summer 1992

**NeXTanswers:** 1010

**Author:** Dave Cottle

**Keywords:** back up, format, floppy disk, fax, SimpleNetworkStarter, Host Manager, color, localization, on-line help, printing, Release 3.0

Release 3 offers a number of new features, including merging files onto an existing backup, formatting disks for DOS and Macintosh formats, creating address books for faxing, improved development tools, and more. It also offers a number of administrative improvements, like a tool for setting up simple networks (SimpleNetworkStarter), a new Host Manager application, and improvements to managing NFS mounts.

## **Making the Transition**

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1072

**Author:** Matt Watson

**Keywords:** workspace, File Viewer, icon, target indexes, Digital Librarian, defaults, Release 3.0

Release 3 looks and feels different from previous releases. This article explains how to make the transition from Release 2 easily. Topics include changes in the workspace, updating defaults, and troubleshooting.

# **NEXTSTEP on PCs**

## **Adding On without Flipping Out**

**Issue:** *NEXTSTEP In Focus*, Spring 1994

**Author:** Mark Tacchi

**Keywords:** SCSI, PC, SCSI ID, DOS, bus, setup, format, initialize, partition, **fdisk**, UNIX, **scsimodes**, **disktab**, mount

NEXTSTEP provides features to make it as easy as possible to install a new disk on a computer. This article describes how to format, initialize, and partition SCSI and IDE disk drives, as well as how to mount them at boot time.

## **Using SCSI in a PC World**

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1491

**Author:** Aaron Morse

**Keywords:** SCSI, PC, SCSI ID, bus, setup, termination, jumper, **DEBUG.EXE**, adapter, booting, RAID

The SCSI standard helps you to attach a variety of devices to workstations and personal computers. To set up SCSI devices on your computer, you must complete two important steps: Set device ID numbers and terminate the SCSI chain.

## Surviving DOS

**Issue:** *NEXTSTEP In Focus*, Spring 1993

**NeXTanswers:** 1130

**Author:** Dan Peknik

**Keywords:** PC, DOS, UNIX, booting, commands, boot sector, ISA, EISA

A crash course in DOS basics, including specifying file names and translating UNIX commands to DOS, plus a glossary of basic DOS and PC terms and concepts.

## PC Configuration for NEXTSTEP

**Issue:** *NEXTSTEP In Focus*, Spring 1993

**NeXTanswers:** 1127

**Author:** Terry Williams

**Keywords:** PC, configuration, IRQ line, I/O, DMA address, troubleshooting, interrupt, RAM base address, ISA, EISA, ECU

An introduction to IRQs, I/O ports, DMA addresses, and acronyms galore. Plus, a checklist and troubleshooting guide.

# NeXT Hardware

## Adding to and Troubleshooting NeXT Memory

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1081

**Authors:** Terry Williams and Sandra Sailer

**Keywords:** NeXTstation, NeXTcube, NeXTdimension, install, memory, SIMM, troubleshoot

Installing memory in a NeXT computer is an easy, inexpensive way to improve system performance. This article explains what's involved.

## Integrating the New Display and Keyboard

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1070

**Author:** Ken Jochims

**Keywords:** MegaPixel, color, display, Sony Trinitron, NeXT Sound Box 2, ADB, Starting Point Kit, keyboard, mouse, troubleshooting

In September 1992, NeXT introduced a new MegaPixel 17-inch Color Display and a redesigned Apple Desktop Bus (ADB) keyboard and mouse. This article highlights some of their features and explains how to integrate them with previous systems.

## Caring for Your Mouse

**Issue:** *support bulletin*, Fall 1992

**NeXTanswers:** 1080

**Keywords:** mouse, clean, troubleshooting

This article explains how to clean the old and new models of NeXT mouse.

## Announcing NeXTstation Turbo and NeXTcube Turbo

**Issue:** *support bulletin*, Spring 1992

**NeXTanswers:** 1092

**Author:** Ken Jochims

**Keywords:** NeXTstation Turbo, NeXTcube Turbo, 68040, TMC

The NeXTstation Turbo and NeXTcube Turbo use the 33MHz Motorola 68040 processor. This article highlights some of their features.

## NeXTdimension Demos

**Issue:** *support bulletin*, Summer 1991

**NeXTanswers:** 1065

**Keywords:** NeXTdimension, demo, video, graphics, compression

If you have a NeXTdimension computer, you can use the NeXTdimension demos that come with your computer to capture and manipulate color graphics and video.

## Adjusting Your Color Display

**Issue:** *support bulletin*, Winter 1991



NeXTanswers: 1056

Keywords: monitor, color, troubleshooting

This article describes how to adjust the display of a NeXT color monitor.

# Tips & Techniques

## Tips & Techniques

Issue: *NEXTSTEP In Focus*, Spring 1994

Keywords: hard disk, space, **sendmail**, security, patch, corrections

Correcting the **sendmail** Patch. Booting from a Second IDE Drive. Digital Librarian™ and Digital Webster™ Tricks. Skipping the Workspace Manager™.

## Tips & Techniques

Issue: *NEXTSTEP In Focus*, Winter 1994

NeXTanswers: 1596

Keywords: hard disk, space, **sendmail**, security, patch, corrections

Measuring Local Disk Space. **sendmail** Security Patch. Mending the Error of Our Ways.

## Tips & Techniques

Issue: *NEXTSTEP In Focus*, Fall 1993

NeXTanswers: 1495

Keywords: printer, TCP/IP, NetInfo, NeXTanswers, **ftp**, anonymous **ftp**, transfer, help

Fun with bootingÐBooter syntax, Booting from an external SCSI drive. New NeXTanswers e-mail commandsÐUsing the right return address. Filling your NEXTSTEP libraryÐOther lists of books.

## Tips & Techniques

Issue: *NEXTSTEP In Focus*, Summer 1993

NeXTanswers: 1279

Keywords: printer, TCP/IP, NetInfo, NeXTanswers, **ftp**, anonymous **ftp**, transfer, help

Adding a TCP/IP Printer to a NEXTSTEP Computer NetworkÐBefore you start, Is it a printer or a host, Four steps to a hookup, Making sure it works, For more info. Getting NeXTanswers by **ftp**ÐStarting a

session, Getting help, Working with the NeXTanswers directories, Transferring files, Aborting a file transfer, Ending the session, Staying up to date, If you have trouble.

**Tips & Techniques**

**Issue:** *NEXTSTEP In Focus*, Spring 1993

**NeXTanswers:** 1131

**Keywords:** NeXTanswers, fax, e-mail, bug report, BugNeXT, **fdisk**, DOS, **gonext**, NEXTSTEP, PC, mouse, monitor

Getting Help from NeXTanswersÐUsing NeXTanswers by fax, Using NeXTanswers by e-mail, Check it out, Where's the old NeXTanswers? Bug Battling Made EasierÐSetting up, Sending in bugs, What we do with your bug report, Thanks! Divvyng It Up: How to Use **fdisk**ÐWhy a new **fdisk**, Installing and **fdisk**, Using **fdisk**, Where else to look. Flip/ Flopping Operating SystemsÐDOS to NEXTSTEP, NEXTSTEP to DOS. Picking a PC Mouse. Calibrating Your MonitorÐThree easy steps, What's going on when you do this.

**Tips and Techniques**

**Issue:** *support bulletin*, Winter 1993

**NeXTanswers:** 1018

**Keywords:** Release 3, fonts, WordPerfect, NFS Manager, bug, loop

Release 3 tips and trapsÐworking with over 250 fonts, WordPerfect for Release 3, NFS Manager allows unknown users, Release 3 dupes and loops.

**Tips and Techniques**

**Issue:** *support bulletin*, Spring 1992

**NeXTanswers:** 1088

**Keywords:** UNIX, terminology, conventions, NeXTdimension, NeXTcube, NeXTstation, screen, gray  
How to speak UNIX. Troubleshooting gray screensÐsymptom, cause, solution.

**Tips and Techniques**

**Issue:** *support bulletin*, Winter 1991

**NeXTanswers:** 1062

**Keywords:** core file, NeXTmail, fonts

Core limit defaults. Using e-mailÐfrozen configuration files; compacting or undeleting empty mailboxes; repeating read receipts; Courier, Ohlfs, and non-NeXTmail.

# Frequently Asked Questions (FAQ)

## FAQ

**Issue:** *NEXTSTEP In Focus*, Spring 1994

Replacing the NEXTSTEP Boot Sector. S3-928 Support. Dot-Matrix Printer Support. HP/PA Supported Systems. Light Pen Support.

## FAQ

**Issue:** *NEXTSTEP In Focus*, Winter 1994

**NeXTanswers:** 1594

Broken mouse after install. Removing NEXTSTEP boot sector. Installing DOS 6 with NEXTSTEP. Can't connect to network. CD-ROM drives and CD Player. Installing the Developer CD-ROM. PCI bus compatibility. Cleanly rebooting. Faxing in NEXTSTEP. Macintosh networking and NEXTSTEP.

## FAQ

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1493

How much disk space does NEXTSTEP need? Can NEXTSTEP run on a network? Can a portable PC run NEXTSTEP? If a floppy disk interface isn't supported, how can I save files? What CD-ROM drives can I use with NEXTSTEP on a PC? Will my SCSI hard drive work with NEXTSTEP for Intel Processors? Will any SCSI tape drive work. Can any VL-Bus, EISA, or ISA display adapter work with NEXTSTEP? Is there a "software compatibility guide"? Do I have to start up Windows separately from NEXTSTEP?

# Miscellaneous

## Focal Point

**Issue:** *NEXTSTEP In Focus*, Spring 1994

**Keywords:** editorial, disk space

Spreading Out (disk space).

**FYI**

**Issue:** *NEXTSTEP In Focus*, Spring 1994

**Keywords:** back issues

Ordering back issues of *NEXTSTEP In Focus*.

**Getting the Best Support**

**Issue:** *NEXTSTEP In Focus*, Winter 1994

**NeXTanswers:** 1606

**Author:** Allen Denison

**Keywords:** Support, help, questions, information, NeXTanswers

NeXT's Support group can help you solve your NEXTSTEP problems. To make the most of your call to Support, you should have the relevant information right at hand. It also helps to understand how the group works and what its members do to answer your questions.

**Focal Point**

**Issue:** *NEXTSTEP In Focus*, Winter 1994

**NeXTanswers:** 1605

**Keywords:** editorial, tools

Using the Right Tools.

**FYI**

**Issue:** *NEXTSTEP In Focus*, Winter 1994

**NeXTanswers:** 1598

**Keywords:** training, disk, NeXT, phone numbers

Upcoming NeXT TrainingÐSystem administration courses, Developer courses. Where Did the Disk Go? How to talk to NeXT.

**Focal Point**

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1497

**Keywords:** editorial, Release 3.2

Neat-o new stuffÐNEXTSTEP Release 3.2 brings an abundance of features and fixes.

**FYI**

**Issue:** *NEXTSTEP In Focus*, Fall 1993

**NeXTanswers:** 1494

**Keywords:** *NXApp*, developer journal, corrections, NeXT, phone numbers

New developer journal: *NXApp*ÐWhat's in it, how to get it. Correction: Editing driver bundles. How to talk to NeXT.

**Focal Point**

**Issue:** *NEXTSTEP In Focus*, Summer 1993

**NeXTanswers:** 1282

**Keywords:** editorial, NetInfo

Network Know-HowÐWho needs a whole issue on NetInfo.

**FYI**

**Issue:** *NEXTSTEP In Focus*, Spring 1993

**NeXTanswers:** 1125

**Keywords:** NEXTSTEP Developer Release 3.1, training, mentorship, NeXTanswers, support, hotline, premium, NeXT

NEXTSTEP Developer Release 3.1ÐDeveloper Release 3.1 enhancements, Changes to documentation. Expanded NEXTSTEP CurriculumÐMentorship Program, Open enrollment and on-site classes, For more information. New Ways to Get SupportÐFree support through NeXTanswers, Per-per-call support, Developer and Systems Support Hotline, Software Maintenance Support, Premium Support, We're here to help. How to Talk to NeXT.

**Focal Point**

**Issue:** *NEXTSTEP In Focus*, Spring 1993

**NeXTanswers:** 1133

**Keywords:** *support bulletin*, editorial, change

The More Things ChangeÐWhat happened to the *support bulletin* you knew and loved.

**Power On?**

**Issue:** *support bulletin*, Spring 1992

**NeXTanswers:** 1085

**Author:** Wayde Schroeder

**Keywords:** boot, ROM monitor, kernel, startup, **fsck**, troubleshooting

This article explains the startup (boot) flags and operating system (kernel) variables you can use when you start your computer, whether for common startup solutions and options or disaster recovery.

**Transferring Data with Floppy Disks**

**Issue:** *support bulletin*, Winter 1991

**NeXTanswers:** 1063

**Keywords:** floppy disk, UNIX, transfer

This article points out some conflicts in file system types and explains how to work around them to transfer data from NeXT computers and other UNIX systems via floppy disks. It includes picky details about HD/ED disks, UNIX file systems, formatting vs. initializing, data formats, and raw device drivers.

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