

Apple

Servers in Design



Apple Servers

Topics covered in this presentation:

- Apple's server software products
 - AppleShare IP
 - Mac OS X Server
- How to choose the platform to fit your needs
- Power Macintosh G3 Server
- Third-party software solutions

Why
Use
Servers?

Servers in Print Publishing

- File transfer is still the primary purpose for servers
- Print production needs
 - OPI, PDF, imposition, trapping, job tracking, and billing
- Media asset management



Servers in Web Publishing

- Web
- FTP
- E-mail
- E-commerce



Why Apple Servers?



- Innovative software products
- Cross-platform support
- Speed and ease-of-use for workgroups
- High-performance hardware

Why Apple Servers for Publishing?

OS-level color
architecture

- OS-level automation
- OS-level search engine
- Track record of speed, simplicity, and satisfaction for prepress workgroups





AppleShare IP 6.2

Everyone Can Play

Anyone interested in:

Publishing on the Internet

Cross-platform
communications

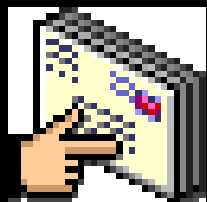
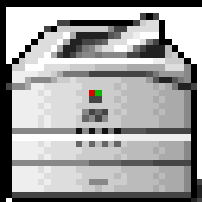
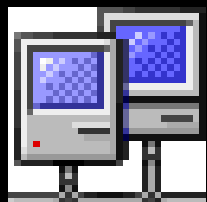
Fast file sharing

Local or worldwide e-mail

... regardless of size



Complete Suite of Services



AFP

lpr

lpd

SMB

CIFS

PAP

ASIA

ftp

http

SMTP

POP

IP

APOP

IMAP

TCP

ASWA

Network

Performance

More than twice as fast as Windows NT Server

One large file (185 MB)

New Mac
Server G3
450 MHz



72 Mbps

26 Mbps

Folder of 96 files
(2MB each)

New Mac
Server G3
450 MHz

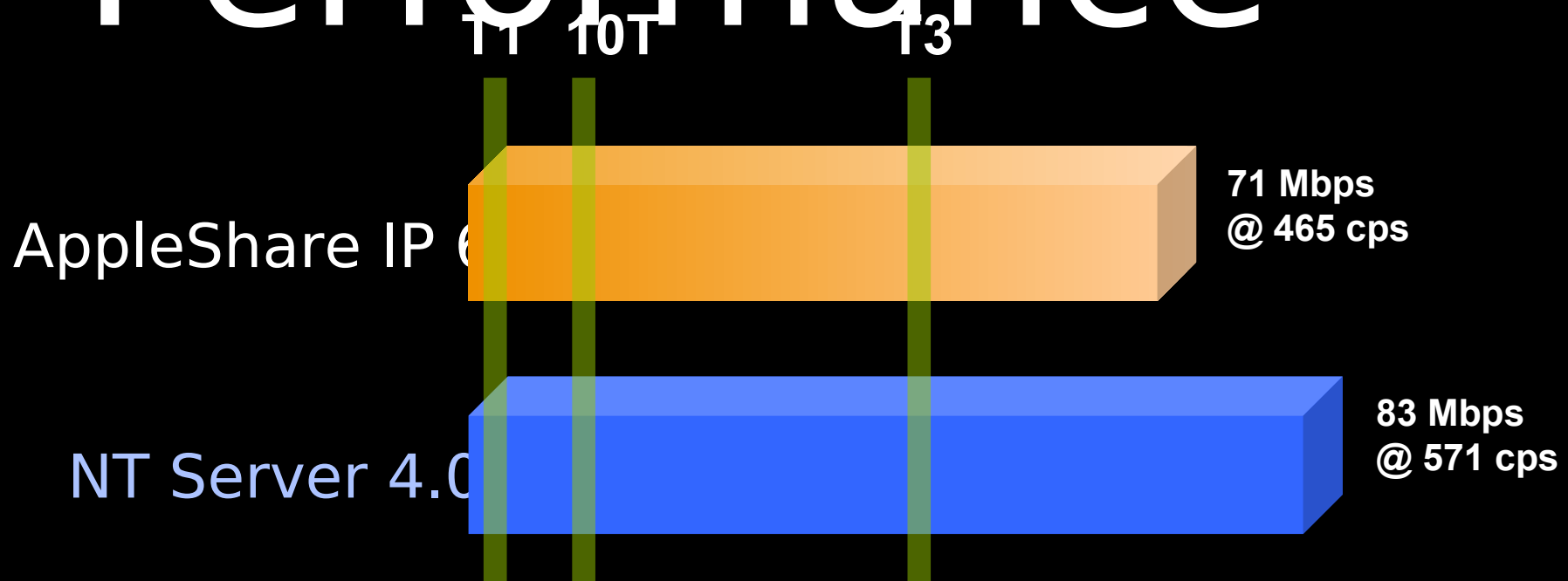


62 Mbps

20 Mbps

File copies from 300-MHz Power Macintosh G3 client to Macintosh Server G3 and Windows NT Server

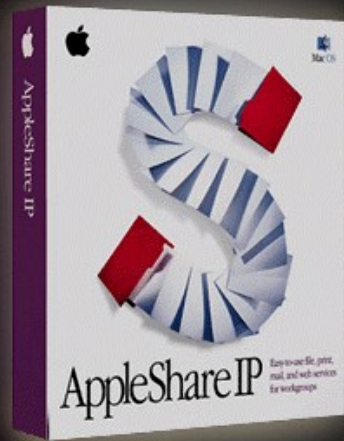
Web Performance



Throughput in Mbps using HTTP 1.1 Source: WebStone test

Real-World Improvements!

CCC on AppleShare IP 5



4x the CCC on AppleShare IP 6.2

Scalability



AppleShare IP Features



- File sharing with Mac clients using AppleTalk and TCP/IP
- File sharing with Windows clients using SMB and TCP/IP
- Sherlock searching
- Print queues for AppleTalk and IP-based printers
- Mail server support of POP and IMAP
- Remote administration via the Web



Mac OS X Server

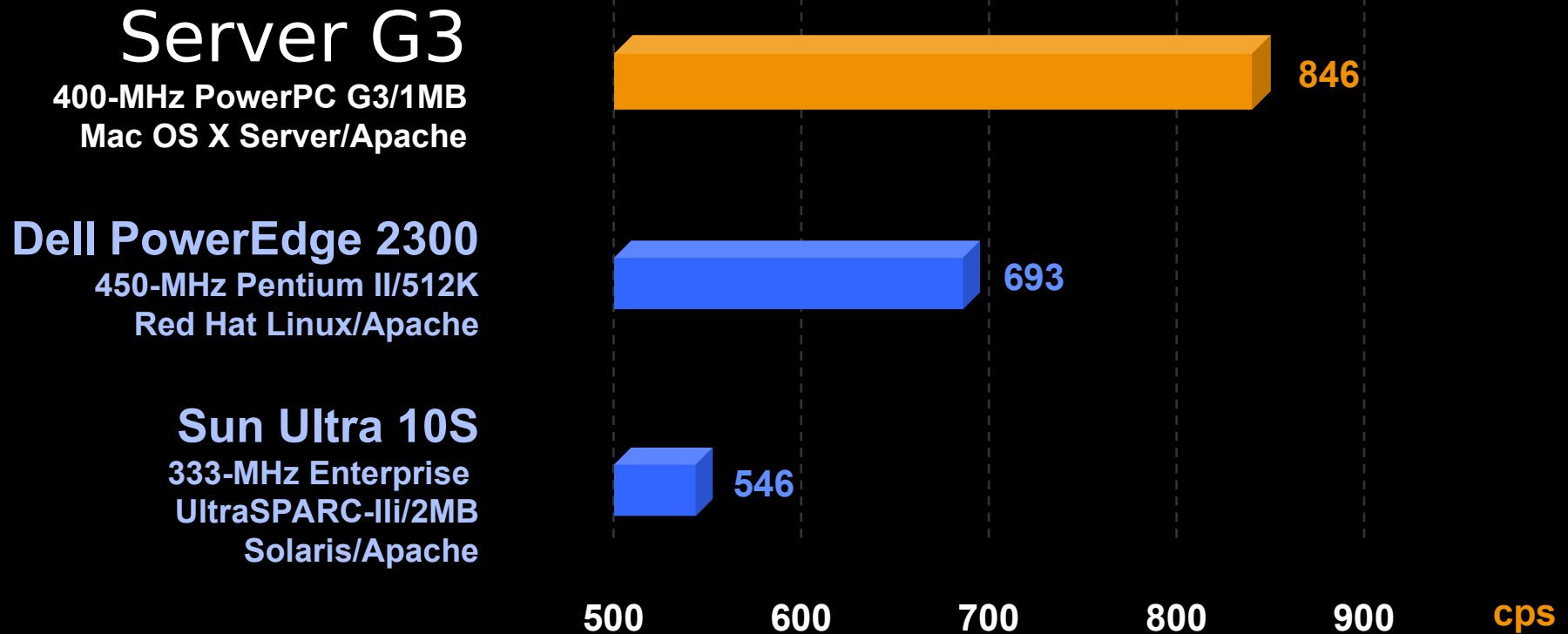


Building a Powerful Server

- Modern foundation
 - Rock-solid, fast network performance
- Open standards
 - Mach kernel, BSD 4.4, TCP/IP, Java
- Internet and workgroup functionality
 - Innovative services from Apple

Web Performance

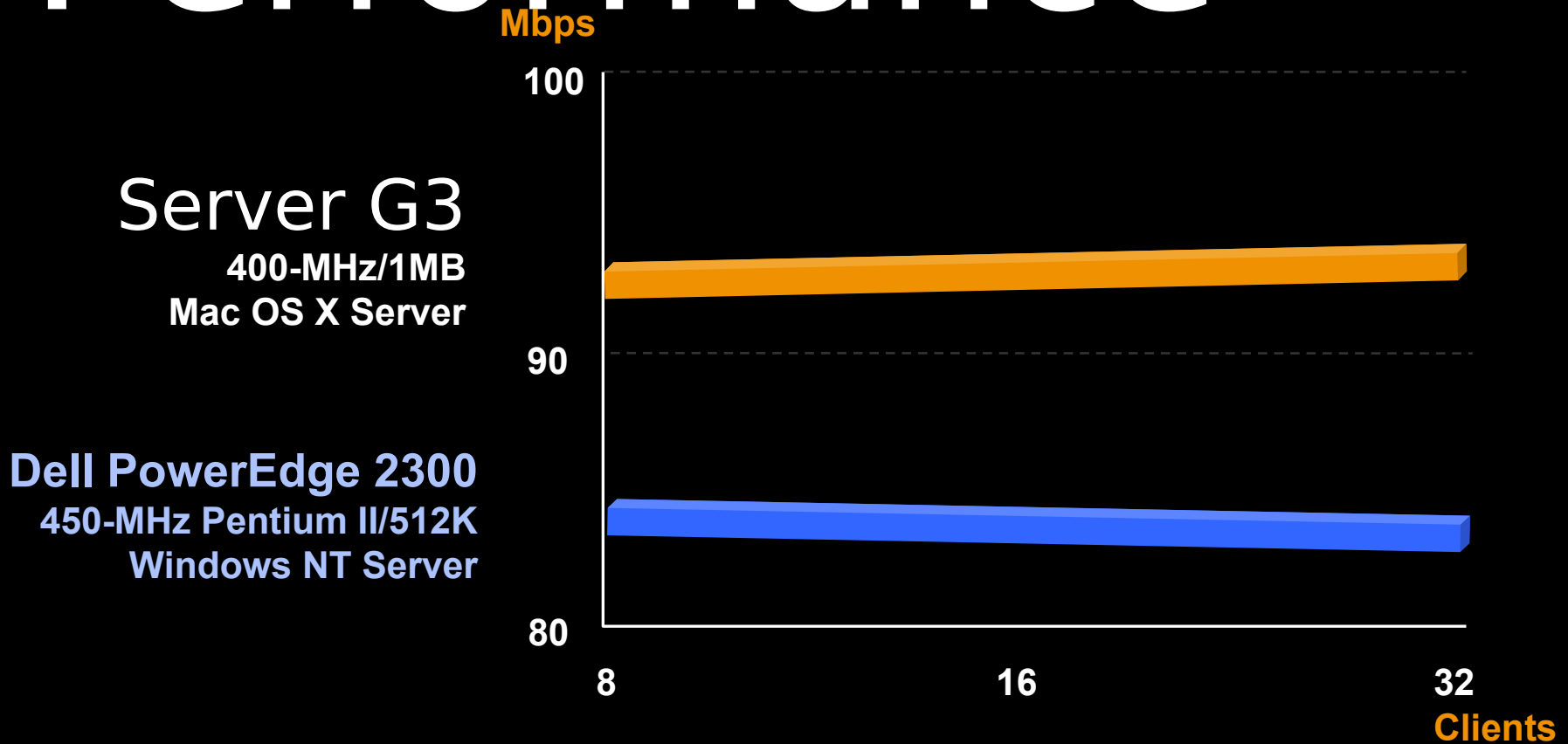
Fastest Apache Web Server!



WebBench static HTML throughput with 60 PC clients in connections per second (cps) on 100BASE-T Ethernet.
Results compiled by ZD Testing Analysis Group (www.zdnet.com/zdtag/reports/reports.html/).

Network Performance

Outperforms Windows NT Server!



NetBench Sequential Read test of network throughput from 8, 16, and 32 Mac clients in Mbps on 100BASE-T Ethernet.

Application Services



Application Services

- Apache web server
 - The world's #1 HTTP web server
 - Operating system optimized to deliver best-in-class performance
- QuickTime Streaming Server
 - Streams QuickTime files over industry-standard protocols
 - The affordable way to deliver rich digital media



Application Services

Apple File Services

- Serve files to any AppleShare client over TCP/IP or AppleTalk networks
- Scale to over a thousand simultaneous users and thousands of open files
- Allow web-based remote administration



Application Services

- WebObjects 4

- #1 application server
- Apple Store, BBC News, Hard Rock Café

- NetBoot

- Multiple Macintosh computers in a network managed as if they were a single system
 - Ideal for data-entry and editorial workflows

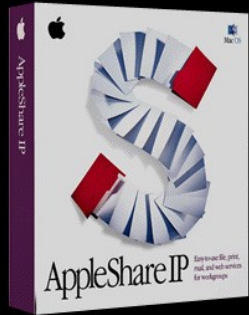
Your Mac can be anywhere



Working together

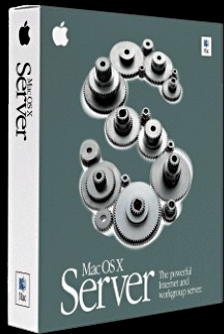


A Great Servers for every need Complement



AppleShare IP

The world's easiest-to-use general-purpose server

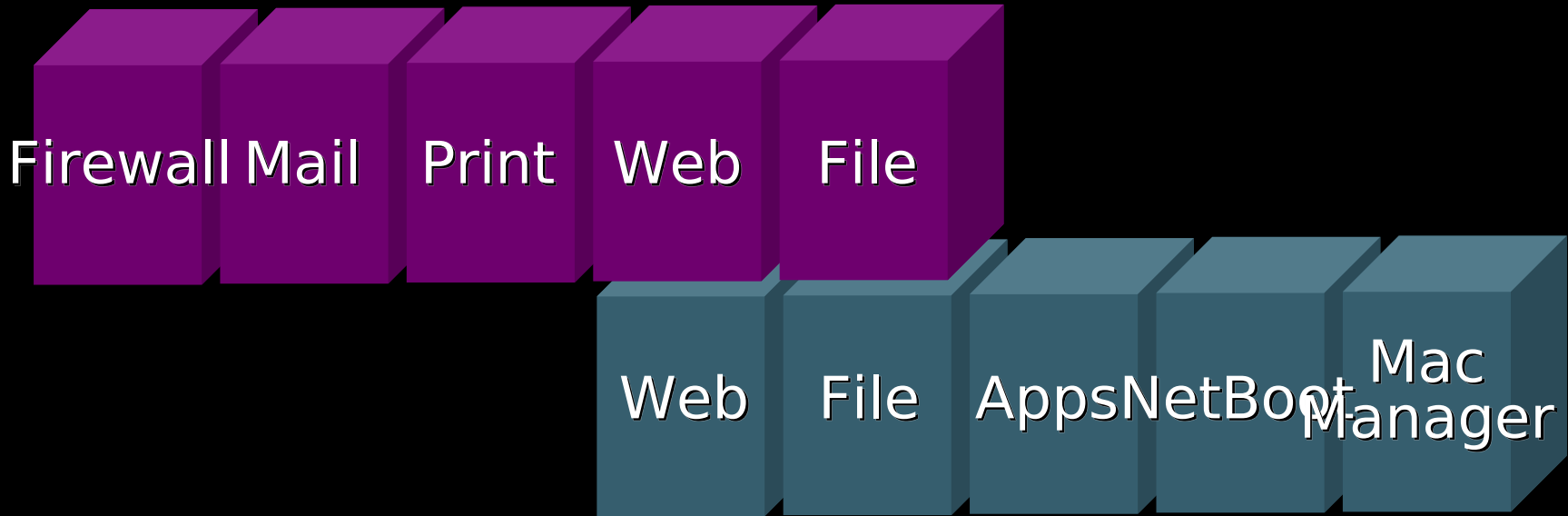


Mac OS X Server

Innovative services with greater scalability

Combine Them as Needed

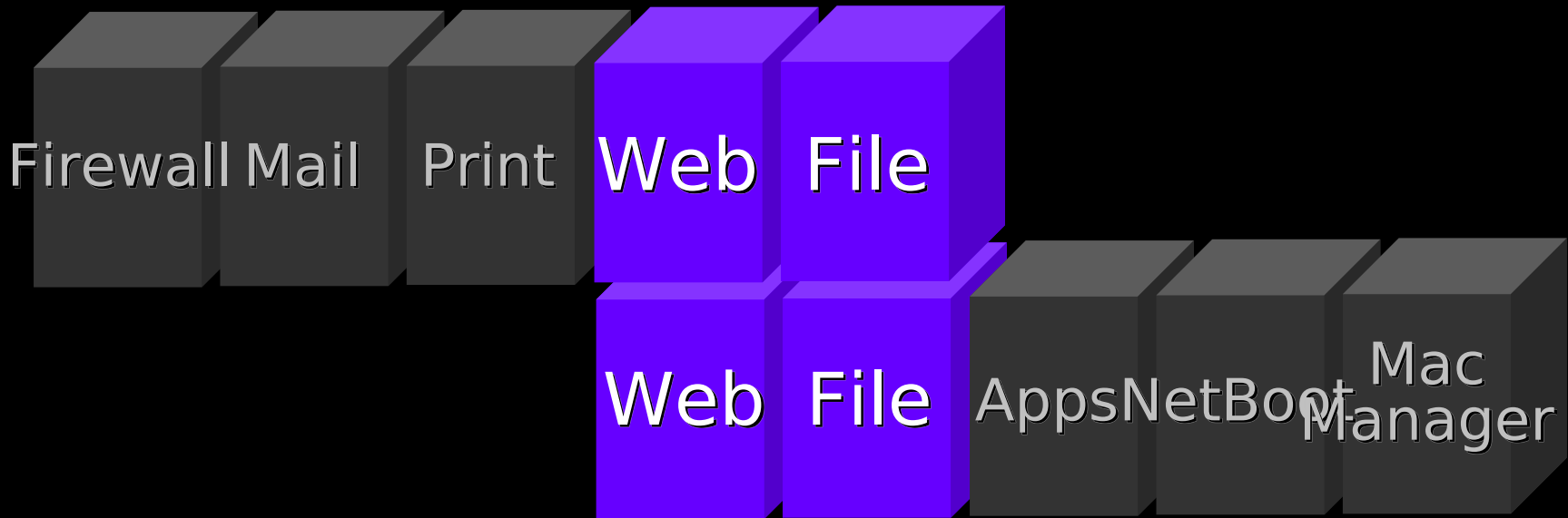
AppleShare IP



Mac OS X Server

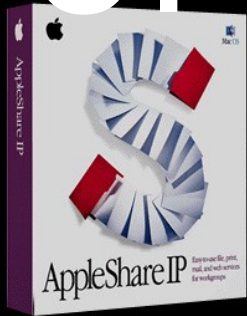
Combine Them as Needed

AppleShare IP



Mac OS X Server

Choose the Best Solution for Your Needs



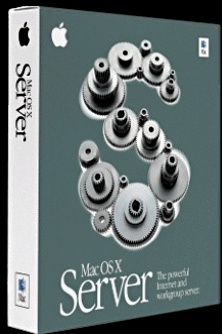
Workgroups of up to 500

simultaneous

Groups of Windows clients

1,000

simultaneous Mac clients



Integrated web and file services capable of filling a T3 connection

High-speed Apache web server able to support an even greater number of connections per second

Roadmap

For two great servers



Who's Using Apple Servers?



Customer Profile

Add a customer profile here

- Name company here
- What was the problem?
- What was the solution?

Third- Party Solution

Print Production Solutions for Mac OS 8

PDF, imposition, trapping

Ultimate
Technographics
On-Q Server

Asset management

Canto Cumulus 4.0
Extensis Portfolio
4.0

Job/cost tracking and billing

PrintPoint, M Data's
PrintSmith,
Honeybee Software's
Job Central

OPI Solutions for Mac OS X Server



Xinet

FullPress,
WebNative



Helios

EtherShare, EtherShare
OPI, PCShare, Print
Preview, PDF Handshake



Agfa

Apogee XServe

Internet Solutions for Mac OS X Server

**POP and IMAP
mail service**

CommuniGate from
Stalker Software

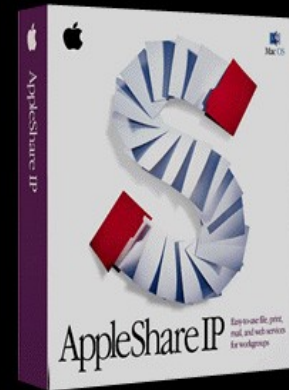
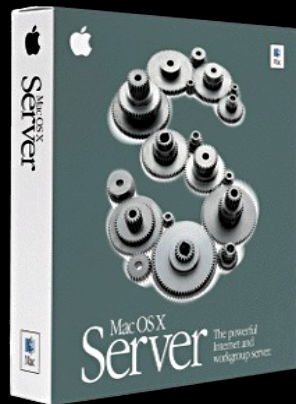
E-commerce

RSCommerce from
Running Start

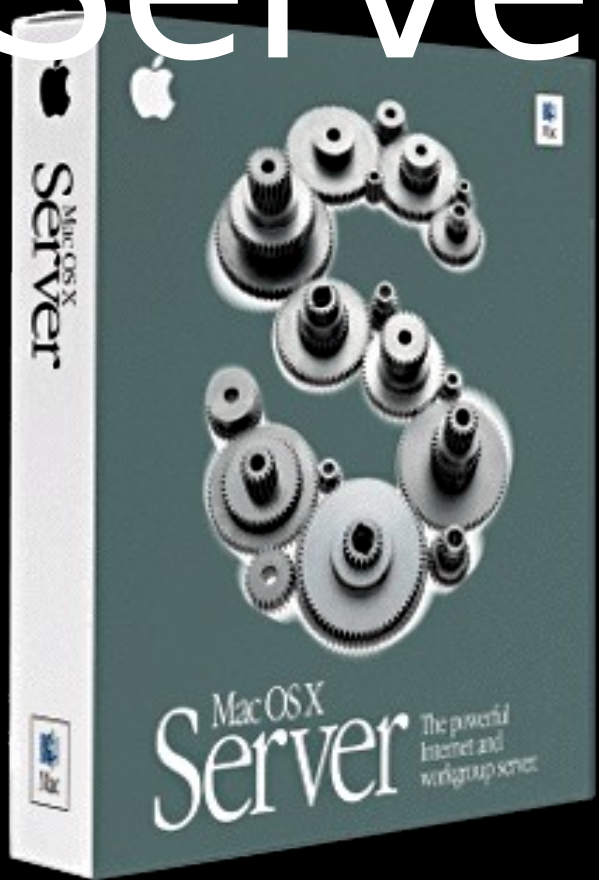
Conferencing and chat

WebCrossing from
Lundeen Software

Pricing



Mac OS X Server



- For any Power Macintosh G3 with at least 64MB of RAM
- Unlimited client license for:
 - Apache, NetBoot, Macintosh Manager, Apple File Services
- WebObjects development and 50-tpm deployment license
- Estimated retail price: \$499!



Macintosh Server G3

- Based on new Power Macintosh G3 architecture with faster processors, memory, disk I/O, and system bus
- Unlimited-client license for NetBoot, Macintosh Manager, and Apple File Services
- Software preinstalled for easy setup and configuration

\$4,999

Estimated retail price.
90 days' free installation
support





Macintosh Server G3

with AppleShare IP
350MHz G3/1GB cache 400MHz G3/1MB cache

128MB SDRAM

256MB SDRAM

One 9GB 7,200-

Two 9GB 10,000-

\$3299

\$4099

Ultra2 LVD SCSI
HD

Ultra2 LVD SCSI
HDs

All Server G3 configurations come with:
10/100BASE-T Ethernet, 24x CD-ROM (max.),
USB, FireWire,

Mac OS 8.5, AppleShare IP 6.2,
Apple Network Assistant (10 client), and
SoftRAID



Build-to-order

Macintosh Server G3

(BTO)



BTO Options

Macintosh Server G3 with Mac OS X Server



PowerPC Memory

G3 processor

400 MHz

Hard disk

Other

256MB	One 9GB 10,000-rpm Ultra2 LVD SCSI	Gigabit Ethernet
384MB	Two 9GB 10,000-rpm Ultra2 LVD SCSI	Dual-Channel Ultra2 LVD SCSI* card
512MB	Two 18GB 10,000-rpm Ultra2 LVD SCSI	Ultra SCSI card
768MB	Two 18GB 10,000-rpm Ultra2 LVD SCSI	Ultra SCSI card
1GB	One 36GB 7,200-rpm Ultra2 LVD SCSI	Ultra SCSI card
	Two 36GB 7,200-rpm Ultra2 LVD SCSI	Ultra SCSI card
	Three 36GB 7,200-rpm Ultra2 LVD SCSI	Ultra SCSI card

* May not be available immediately at introduction.

Apple Servers

Power, innovation, and ease of use

- Mac OS X Server
- AppleShare IP server
- Choose either platform or both to fit your needs





Think
different.

Q&A

Optional
Slide



Macintosh Server G3

• 400MHz PowerPC G3 with 1MB cache
with Mac OS X Server

- 256MB SDRAM (expandable to 1GB)
- Two 9GB 10,000-rpm Ultra2 LVD SCSI hard disks with single-channel Ultra2 LVD SCSI card
- 24x-speed (maximum) CD-ROM drive
- Built-in 10/100BASE-T Ethernet and 4-port 10/100BASE-T Ethernet card
- Mac OS X Server CD, WebObjects