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?

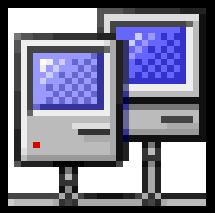
- OS-level Unix architecture
- OS-level automation
- OS-level search engine
- Track record of speed, simplicity, and satisfaction for prepress workgroups

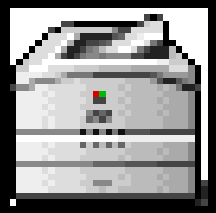
AppleShare IP 6.2

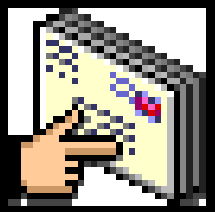
Everyone Can Play

- 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

SMB

CIFS

ASIA

SMTP

POP

APOP

IMAP

TCP

ASWA

lpr

lpd

PAP

ftp

http

IP

Network Performance

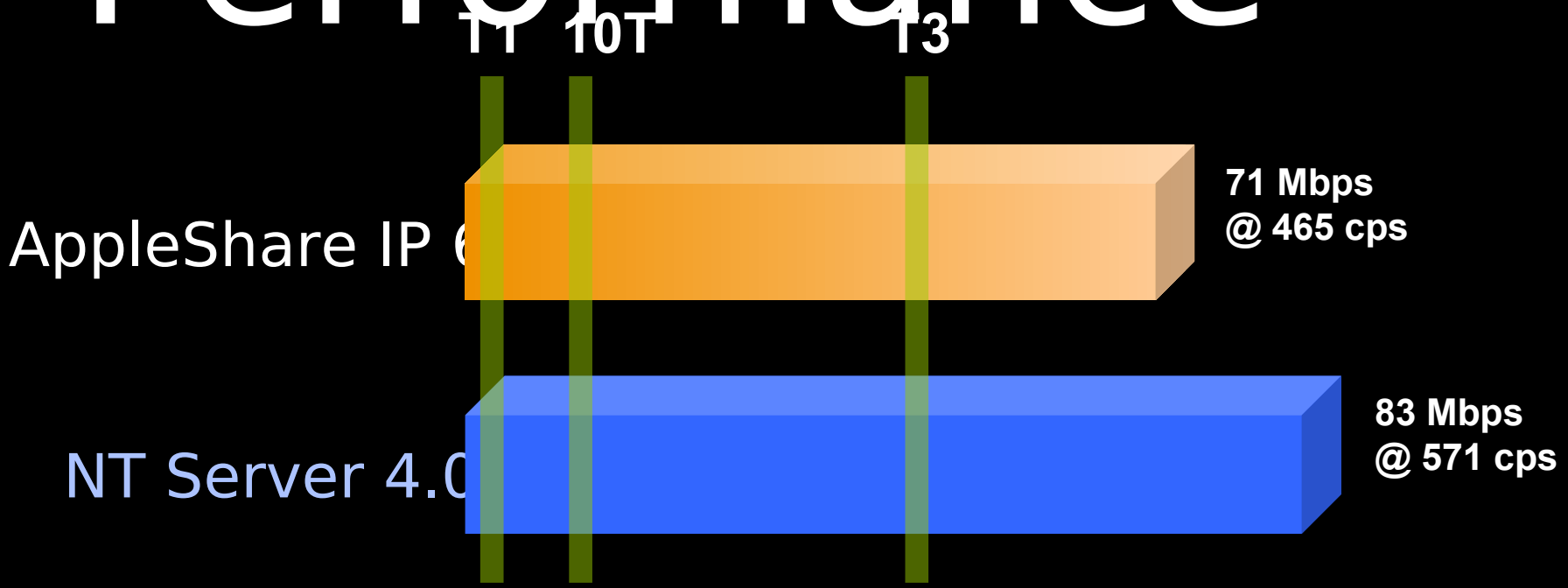
More than twice as fast as Windows NT Server

One large file (185 MB)

Folder of 96 files (2MB each)

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

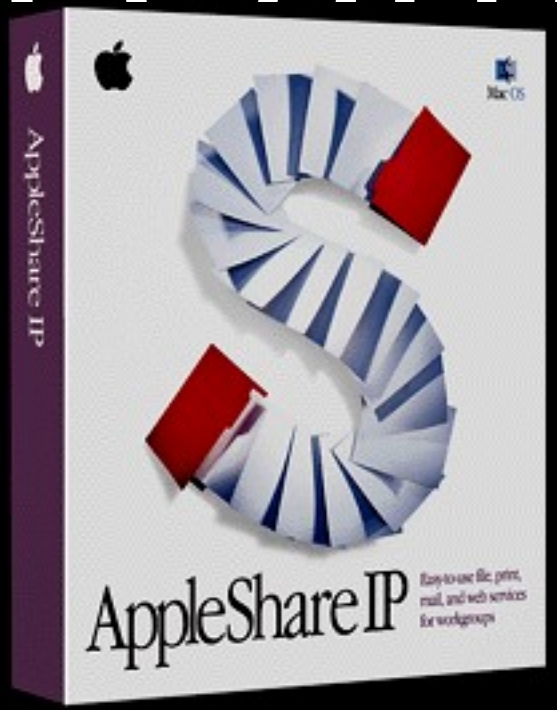
Real-World Improvements!

CCC on AppleShare IP 5

4x the Scalability

CCC on AppleShare IP 6.2

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

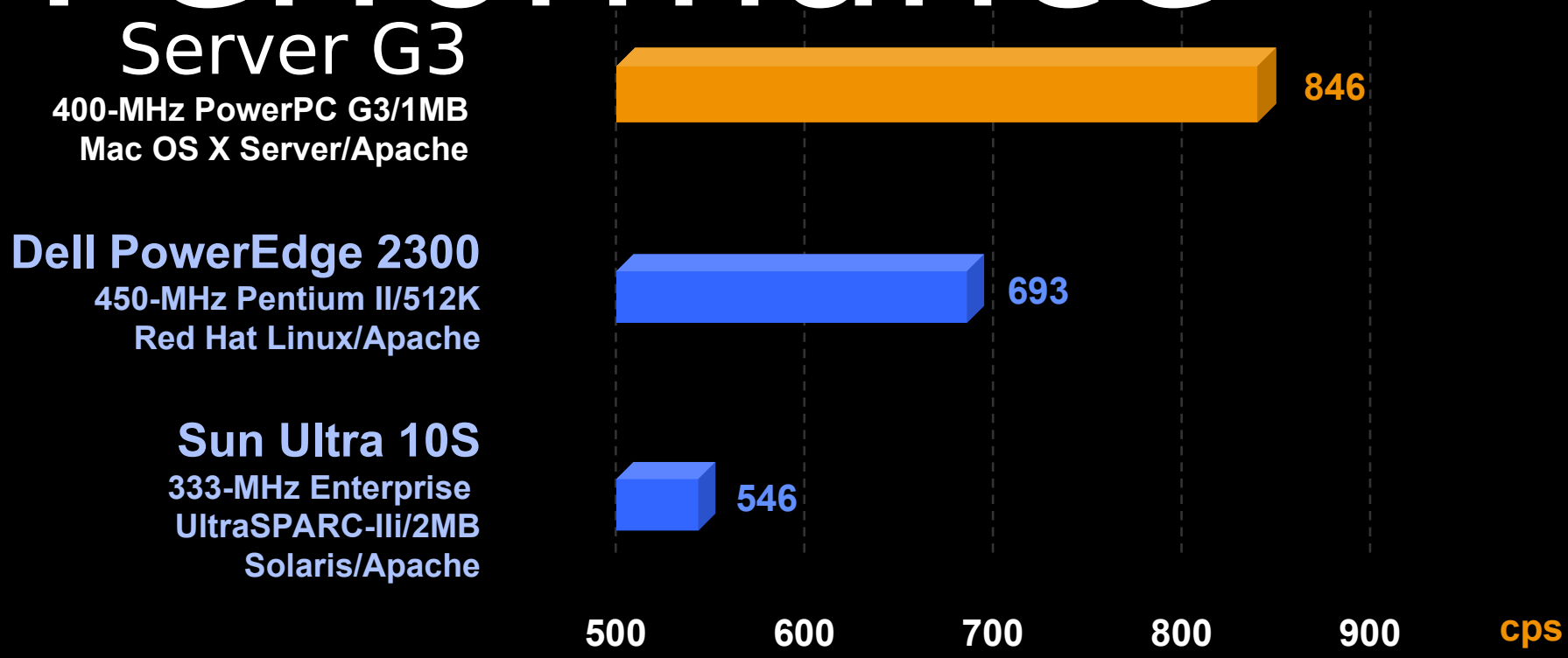
Mac OS X Server

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

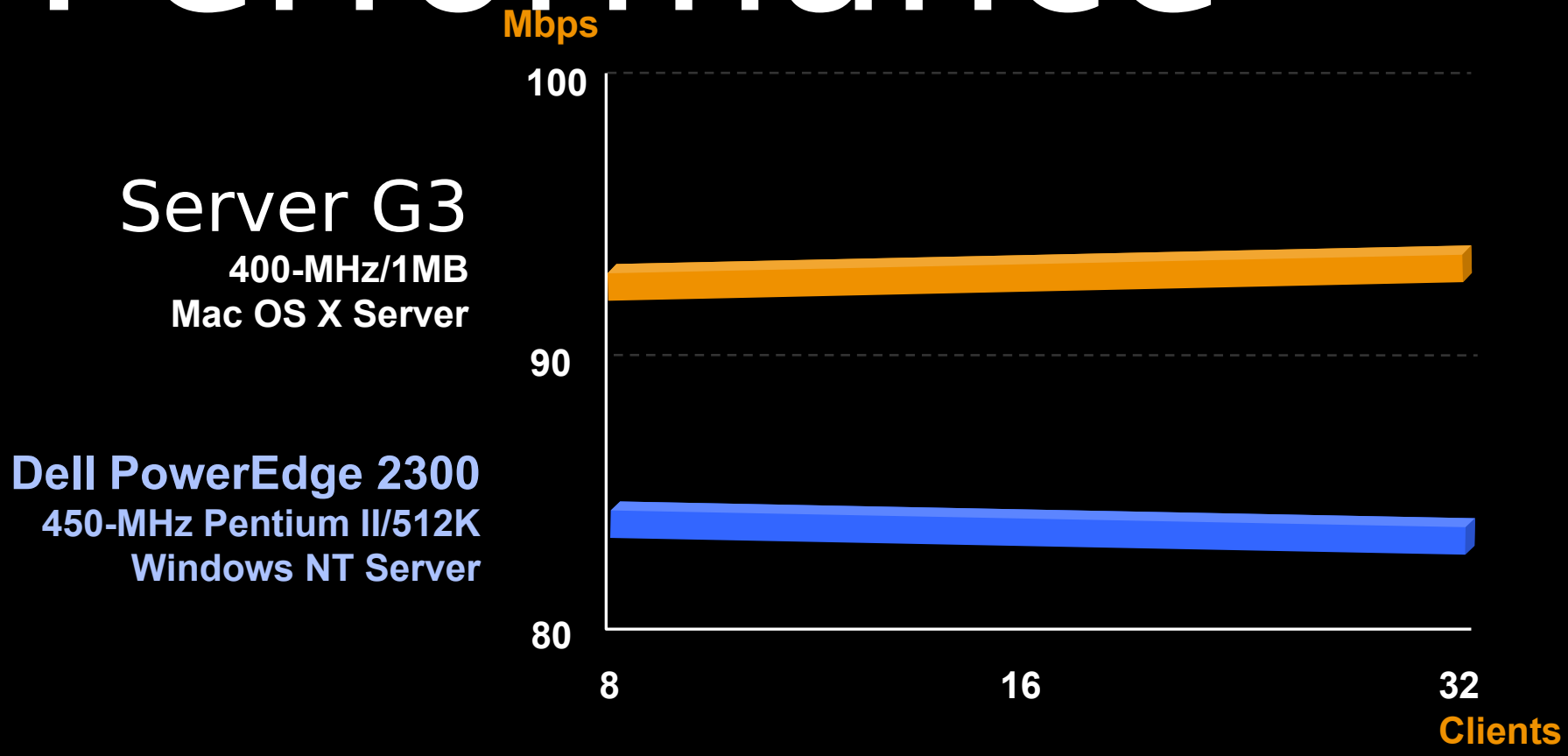
Fastest Apache Web Server!



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

- AppleFile 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

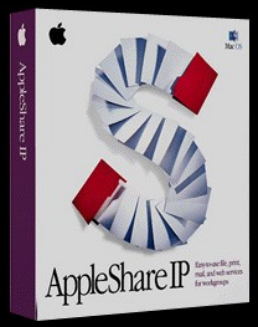
Application Services

- WebObjects 5
  - #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

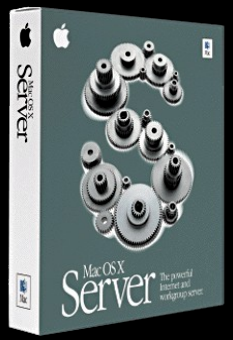
A Great Complement

Servers for every need



AppleShare IP

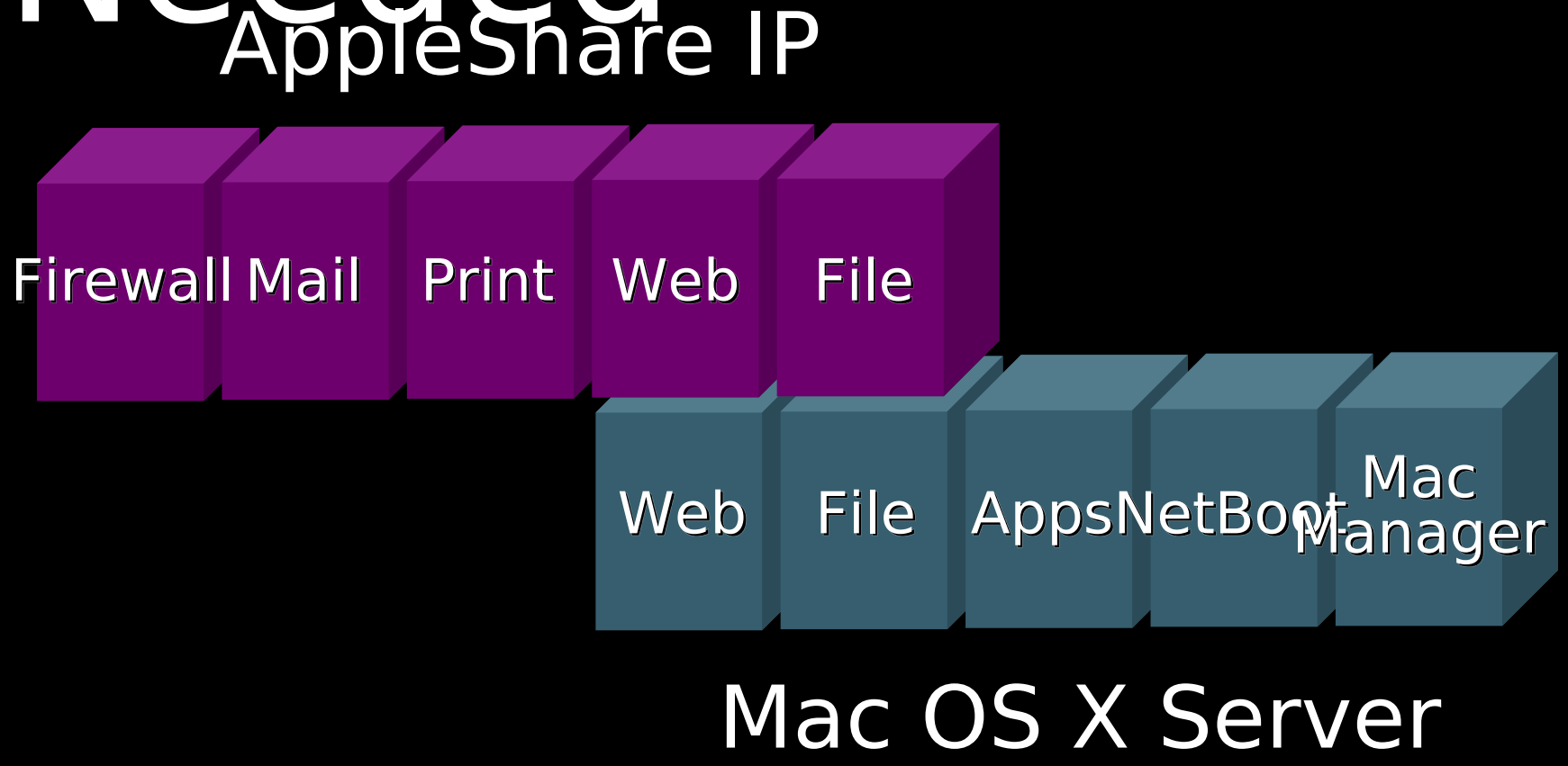
The world’s easiest-to-use general-purpose server



Mac OS X Server

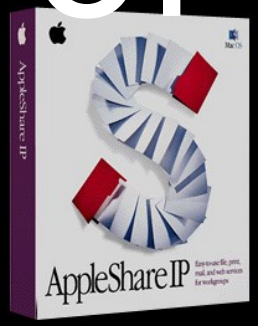
Innovative services with greater scalability

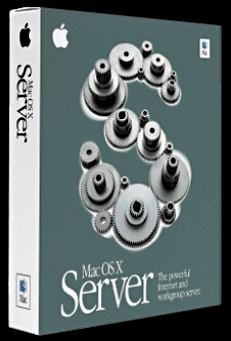
Combine Them as Needed



Combine Them as Needed

Choose the Best Solution for Your Needs





The	Web
Workgroups of up to 500 simultaneous Mac and Windows clients	Integrated web and file services capable of filling a T3 connection
Groups of more than 1,000 simultaneous Mac clients	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

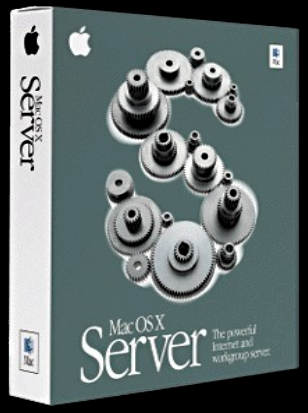
Helios — EtherShare, EtherShare OPI, PCShare, Print Preview, PDF Handshake

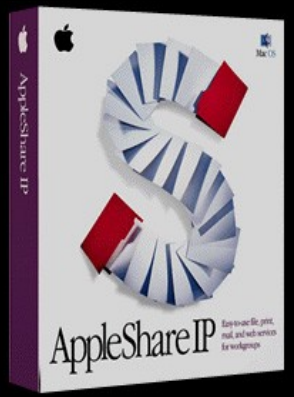
Agfa — Apogee XServe

Internet Solutions for Mac OS X Server

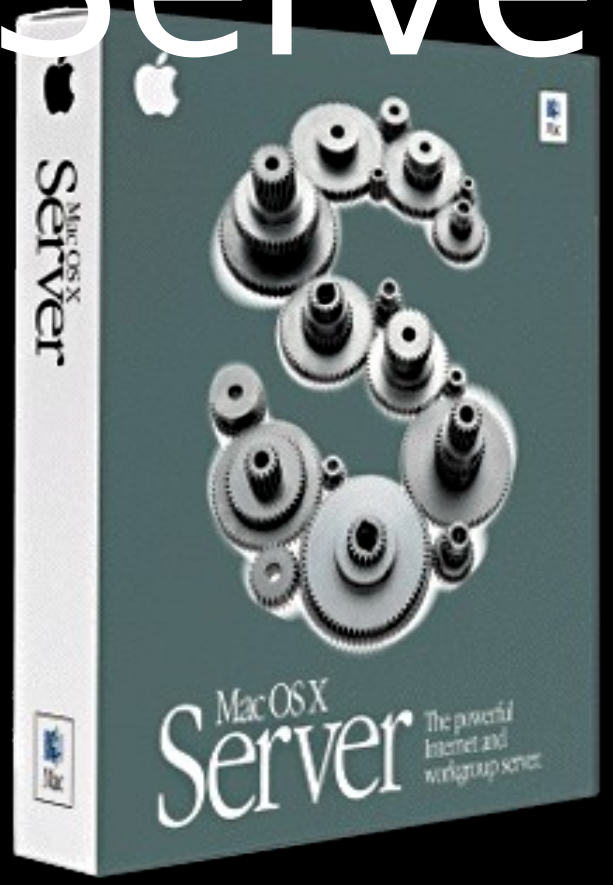
POP and IMAP mail service	CommuniGate from Stalker Software
E-commerce	RSCommerce from Running Start
Conferencing and chat	WebCrossing from Lundeen Software

Pricing


Mac OS X
Server
Mac OS X
Server
The powerful
Internet and
workgroup server


AppleShare IP
AppleShare IP

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

with Mac OS X Server

- Based on new Power Macintosh G4 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

350-MHz G3/1MB cache	400-MHz G3/1MB cache
128MB SDRAM	256MB SDRAM
One 9GB 7,200-rpm Ultra2 LVD SCSI HD	Two 9GB 10,000-rpm Ultra2 LVD SCSI HDs
$3,299	$4,999

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 (BTO)

Macintosh Server G3

BTO Options

Macintosh Server G3 with Mac OS X Server

PowerPC G3 processor

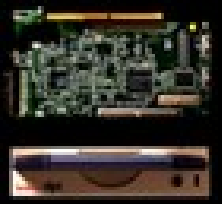
400 MHz

Memory

256MB
384MB
512MB
768MB
1GB

Two 9GB 10,000-rpm Ultra2 LVD SCSI
Three 9GB 10,000-rpm Ultra2 LVD SCSI
Two 18GB 10,000-rpm Ultra2 LVD SCSI*
Three 18GB 10,000-rpm Ultra2 LVD SCSI*
One 36GB 7,200-rpm Ultra2 LVD SCSI
Two 36GB 7,200-rpm Ultra2 LVD SCSI
Three 36GB 7,200-rpm Ultra2 LVD SCSI

Hard disk



Other

Gigabit Ethernet
Dual-Channel Ultra2 LVD SCSI* card
Ultra SCSI card
CSI
PCIe External DDS-3 tape drive

* 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.

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Q&A

Optional Slide

Macintosh Server G3 with Mac OS X Server

- 400MHz PowerPC G3 with 1MB cache
- 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