Object-Oriented Technologies and Client/Server Systems

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Notes:

Re-engineering Enterprise Systems

Firewall

Mobile Employees

Corporate Systems

External Databases

Customers

Suppliers

Contractors
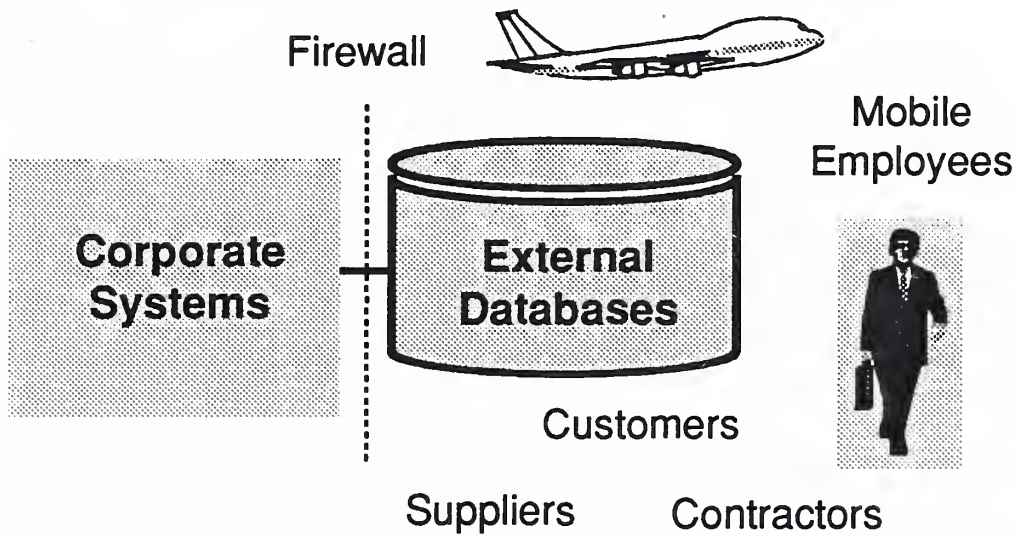
MMONb-3

Notes:

Emphasis on Business Processes
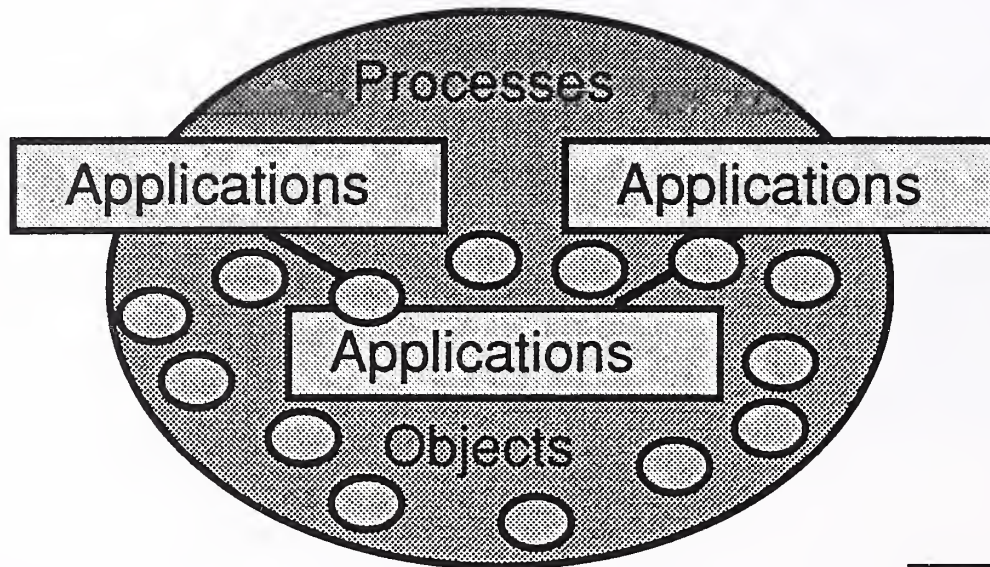
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Notes:

Mission Critical Systems

"The Network is The Computer" Sun Microsystems

Applications ➡ **Processes**

Accounting
Human Resources
Payroll

Customer Systems
Supply Chain Mgt.
Electronic Mail
Document Workflow
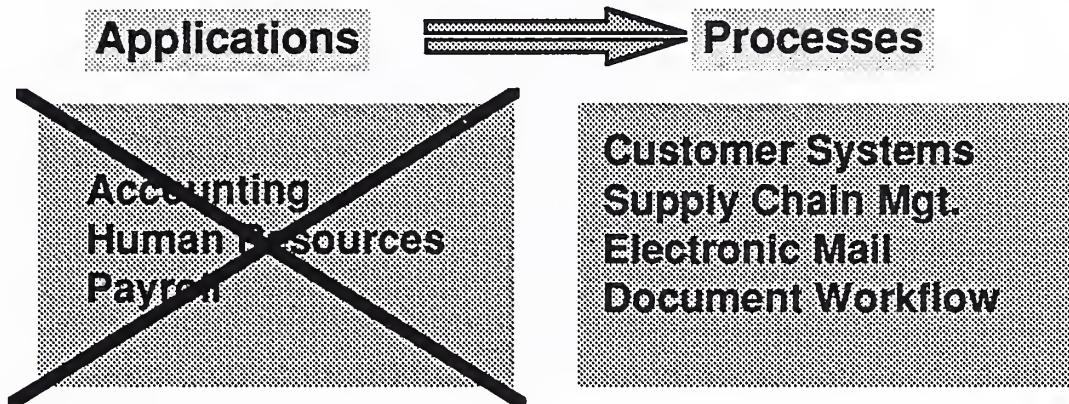
MMONb-5

Notes:

C/S Varies With Company Size

Revenues ($M)

Revenues ($M)	Companies Migrating to C/S (%)
>5,000	33
1,000-4,999	31
500-999	30
100-499	24
<100	17

Companies Migrating to C/S (%)
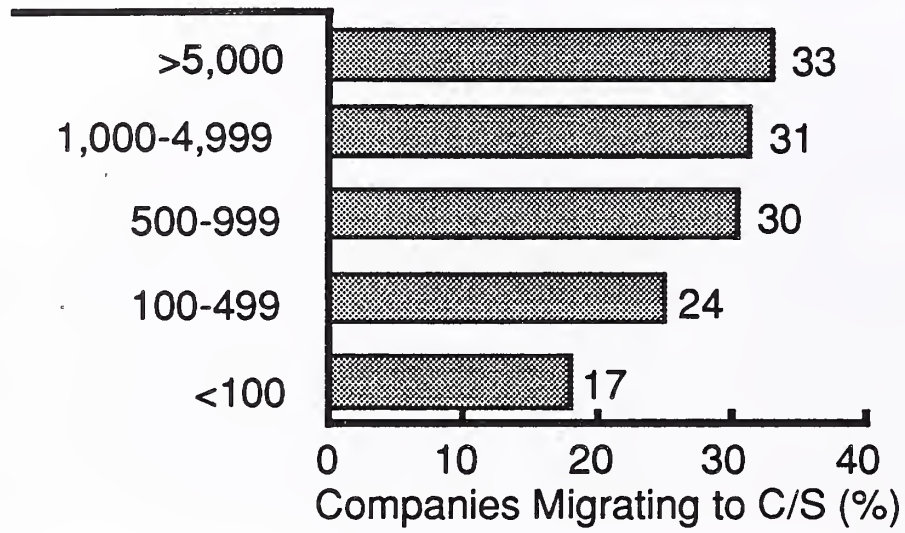
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Notes:

Three Generations Of Client/Server

3rd · **Distributed Servers**
Open Clients
Inter-Enterprise

2nd · **Multiple Servers**
PC/Workstation Clients
Intra-Enterprise

1st · **Single Server**
Single Platform Client
Departmental
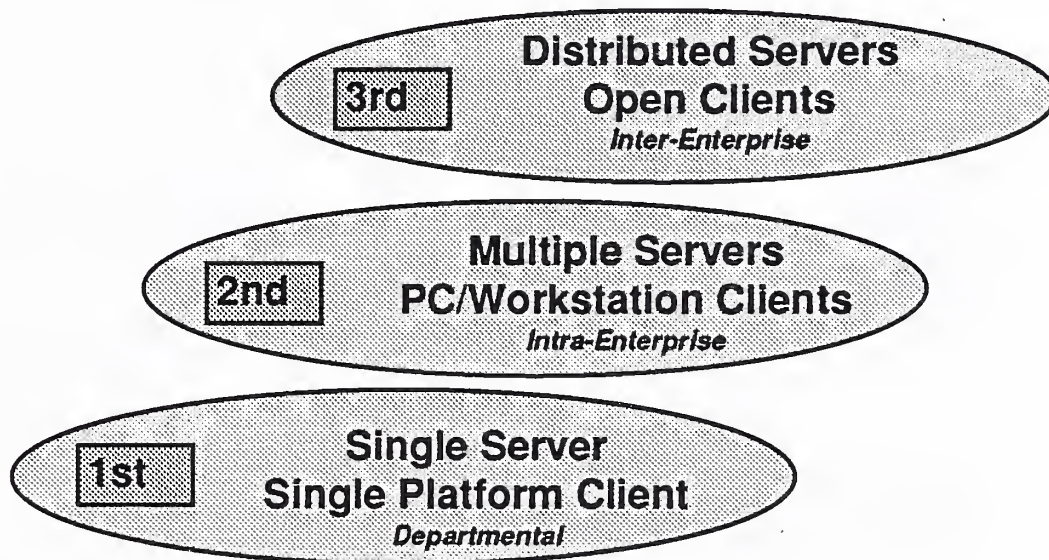
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Notes:

First Generation Example

- Small Workgroup Database
- Branch Offices and Departments
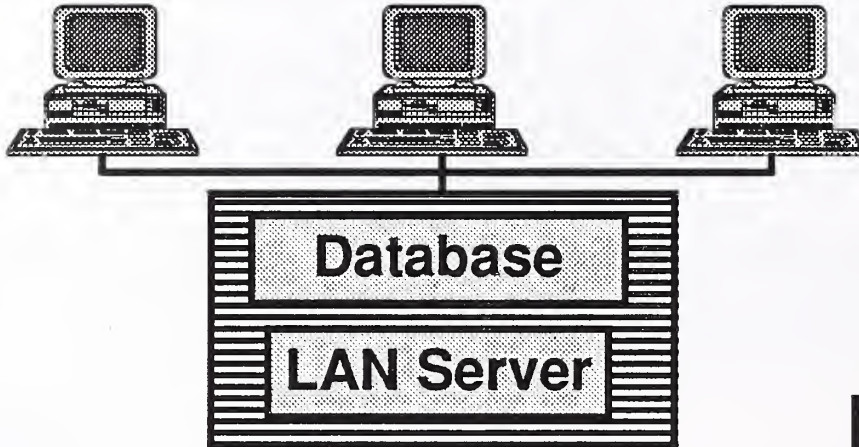
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Notes:

Second Generation Example

- Windows, MacOS, UNIX, NeXTSTEP Clients
- Application, Communications, Image, Database Servers

Multiple Clients

Multiple Servers

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Notes:

Third Generation Example

- Public and Private Messaging Services
- Smart Agents and Scripts Navigate Networks

Network Clouds
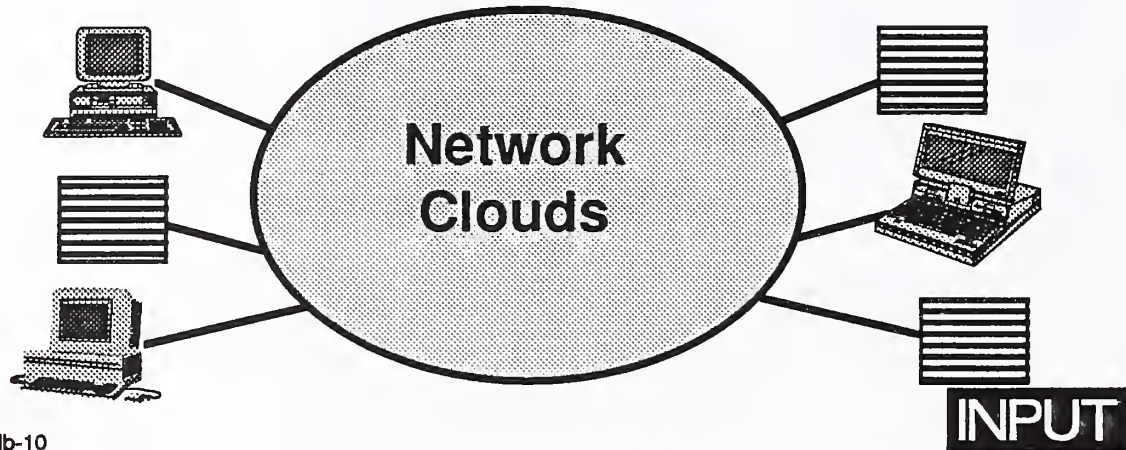
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Notes:

Enterprise System Development

Architects

Requirements
Specifications
Upper CASE Tools

Business Objects

C++
COBOL
Visual Basic
Smalltalk

Builders

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Notes:

Business Objects

- CASE for component software builders
- Model business processes with objects
  - Forms, customers, goods, accounts, dates
- December 1993 - Object Management Group formed Business Objects subcommittee (BOM SIG)
- Currently too low level for most users

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Notes:

Layers of Objects on the Desktop

- Document-centric user interfaces
- Animation and video
- Software component architecture

| Integrated Desktop Packages and Suites |
| Applets - QuickTime for Video, MS Graph |
| Object-oriented Platforms - OLE, Taligent, NeXT |

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Notes:

U.S. Market Forecast

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Notes:

11/94
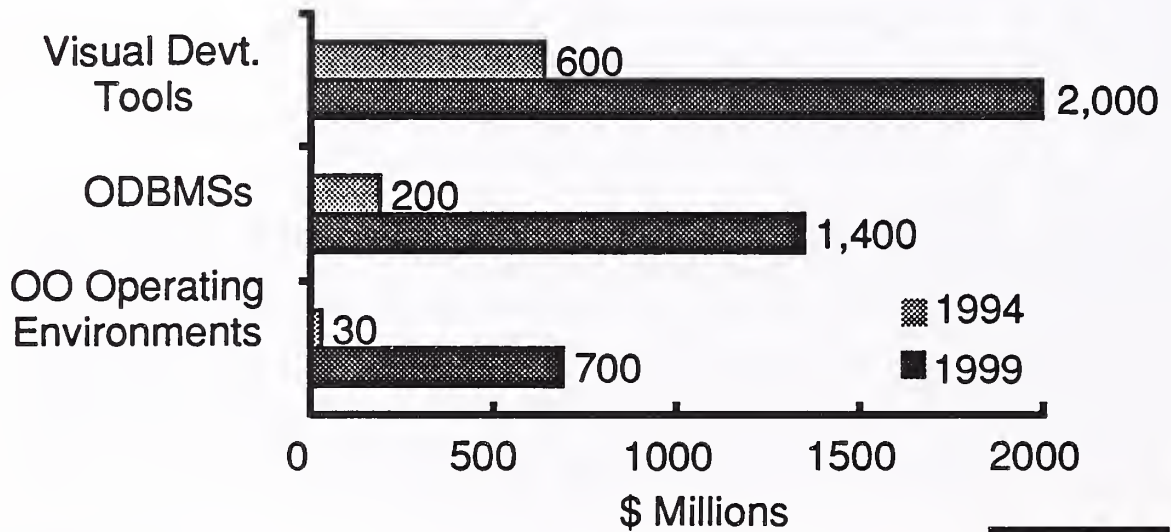
User Trends

- IS departments manage the infrastructure
- User groups and system integrators develop applications
- Knowledge workers develop customized interfaces with products like Microsoft Excel, Q&E, Lotus Approach, Claris FileMaker
- Higher support costs, lower product costs

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Notes:

Growth of Leading Vendors
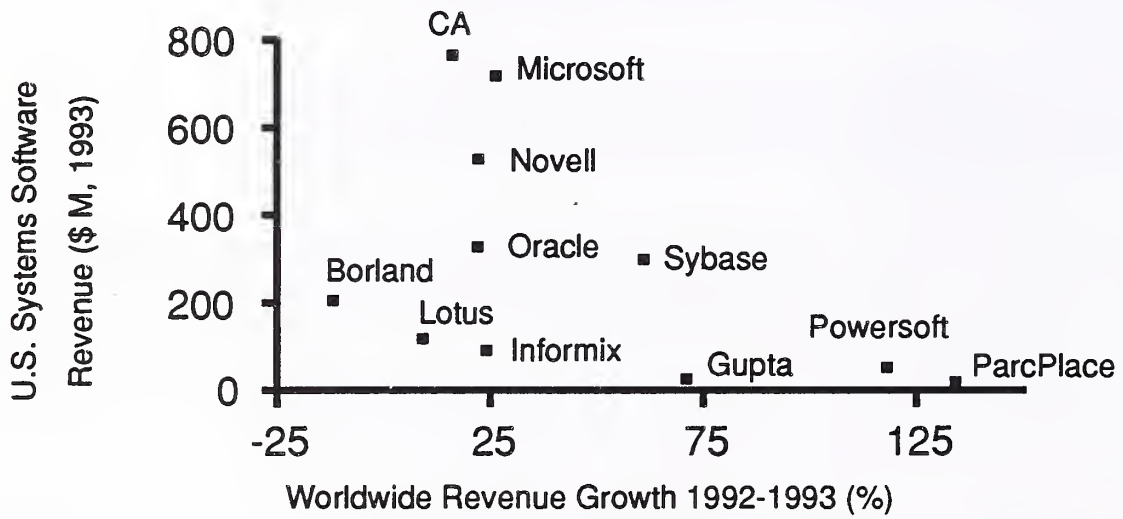
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Notes:

Hardware Vendor Trends

- Hewlett-Packard

  - Heavy object emphasis - Distributed Smalltalk, Taligent investment, reselling NEXTSTEP

- IBM

  - Rewrite of AS/400 operating system using objects

  - PowerPC with Apple and Motorola

- Sun Microsystems

  - Collaboration with NeXT for distributed objects

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Notes:

Database Vendor Trends

- Informix
    - Strong vertical market emphasis
- Oracle
    - Emphasizing own client development tools - CDE
    - Multimedia and video servers
- Sybase
    - Aiming for enterprise and low-end
    - Merging with Powersoft

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Notes:

Outlook for Client Platforms

- 1995
  - Windows95, PowerPC
  - Desktop video, animated user interfaces
  - Mobile clients - PDAs, cellular phones
- 1999
  - Diverse object-oriented environments
  - Information appliances
  - Office PC - 64MB, multiple displays

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Notes:

Outlook for Server Platforms

- 1995
  - Windows NT gains market share
  - High availability clusters
- 1999
  - Software frameworks span servers
    - Security, system administration
    - Messaging, scheduling, databases
  - Palmtop to enterprise scalability

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Notes:

Outlook for Business Objects

- 1995
    - Microsoft's Line-of-Business objects
    - Microsoft OLE and OMG CORBA interfaces
    - Multiple standards
    - Emerging tools and methodologies
- 1999
    - Business object standards solidify

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Notes:

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- Software and Services Market Forecasts
- Software and Services Vendors
- U.S. Federal Government
  - Procurement Plans (PAR, APR)
  - Forecasts
  - Awards (FAIT)

CUSTOM PROJECTS

For Vendors—analyze:

- Market strategies and tactics
- Product/service opportunities
- Customer satisfaction levels
- Competitive positioning
- Acquisition targets

For Buyers—evaluate:

- Specific vendor capabilities
- Outsourcing options
- Systems plans
- Peer position

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