Client/Server The New IT Environment





Client/Server
The New IT Environment



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Client/Server—The New IT Environment

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Client/Server

The New IT **Environment**

MC3-PAC-1

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Notes:

Peter Cunningham

President **INPUT**

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Topics

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Vendor Strategies	······································
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IC3-PAC-2	······

Introduction

Revolutions

- Downsizing
- Outsourcing
- Re-engineering
- Networking

IS-94a

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IS Environment "Old" "New" Traditional Downsized Mainframe Client/server Shared Dedicated Remote Local IS operated User operated

ID-96

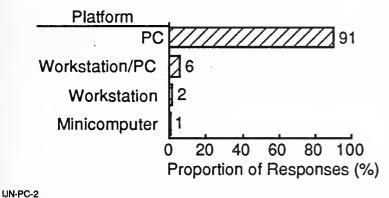
Client/Server Computing Description

 Server computer provides information, software and/or resources to client computers to enable applications processing

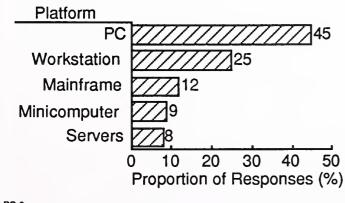
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Distribution of Client Hardware Platforms



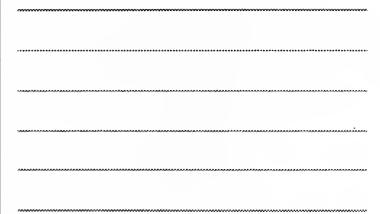
Distribution of Server Platforms



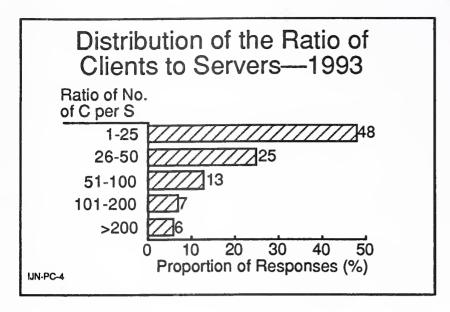
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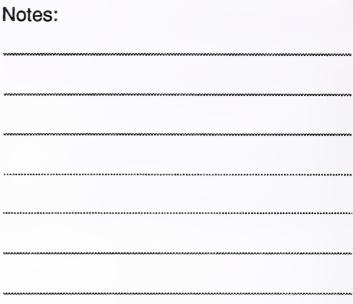
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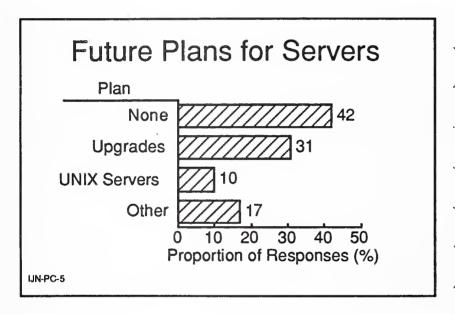
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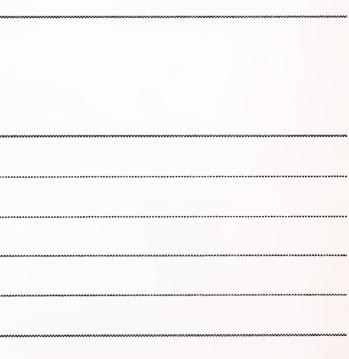


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Clients 44 Servers 75 LANS 41 1993-1994 LANS 41 1994-1997 0 20 40 60 80 100 Growth in Average Number Per Respondent (%)

Client/Server Computing Description

- Concept involves
 - Sharing of responsibility; client and server necessary for applications result
 - 'Action' on the part of both client and server computers to achieve result

MC3-PAC-27

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Notes:

Client/Server User Implementation

MC3-PAC-3

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Equipment Selection Reasons

	Proportion of Mentions (%)			
Reason	Client	Server		
In-Place	33	31		
Price- Performance	25	22		
Standards	18	11		
Other MC3-PAC-6	23	35 INPUT		

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Distribution of Equipment Vendors Proportion of Mentions (%) Vendor Client Server IBM 20 30 "Intel" 32 11 Compaq 19 14 Other 28 47 INPUT

Notes:

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Conclusions—Equipment

- Servers are increasingly large PCs
- Already 'Legacy' C/S structures
- "Intel" is a leading C/S vendor
- Client market saturating
- Server market is open

MC3-PAC-7

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NT

- Needs
 - 486 or Pentium—minimum
 - 32 Megabytes of storage
 - 2 Gigabytes disk

IJN-PC-7

NT • Too big? • Too slow? • Too late?

Notes:

NT

But... Provides OS for desktop RISC

IJN-PC-9

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Distribution of Operating Systems | Proportion of Mentions (%) | | OS | Client | Server | | DOS | 73 | 38 | | UNIX | 7 | 32 | | OS2 | 14 | 13 | | Other | 7 | 17 | | MC3-PAC-8

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Distribution of Network **Operating Systems** Proportion of Responses (%) OS 74 Netware LAN Manager 8 7 LAN Server **TCP**

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INPUT

Other

MC3-PAC-9

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Operating Systems Selection Reasons Proportion of Mentions (%) COS SOS NOS Reason In-Place 27 25 12 Capabilities 21 14 Standards (18)16 **INPUT** MC3-PAC-10a

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Operating Systems Selection Reasons			
Proportion of Mentions (%)			
Reason	COS	SOS	NOS
Compatibility	6	14)	17
Other	38	48	28
MC3-PAC-10b INPUT			

	Plans—C/S and Operating Systems
None	///////////////////////////////////////
Examine NT	/////////24
Windows	///// 12
UNIX	10 123 Responses
Other	////////////24
() 10 20 30 Proportion of Responses (%)
MC3-PAC-11	

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Conclusions Operating Systems

- Dislocation between client and server OS
 - Clients, DOS is 'there'
 - Servers, selection is open
- Novell dominates NOS—No change expected
- NT is not penetrating rapidly

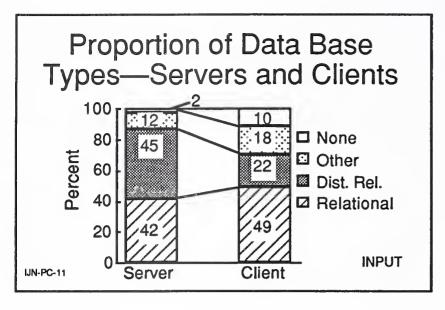
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MC3-PAC-12

DBMS

- · Hierarchy growing
 - -Non-programmable: Q&A, Approach, etc.
 - -Programmable: Access, FoxPro,
 - PARADOX
 - -"Heavyweight": Ingres, Informix, Oracle, Sybase
 - -Large: ADABAS, DB2, IMS
 - -New: Object-oriented—OOPS

IJN-PC-10



Notes:

Case for Client/Server

- Microsoft tools
 - Object-oriented
 - Internal/external
 - Working with Intersolv and LBMS
 - Cross platform portability-Wings
 - Configuration management—Delta

IJN-PC-12

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Distribution of DBMS Vendors

	Proportion of I	Mentions (%)	
DBMS	Client	Server	
Oracle	17	26	
Sybase	7	18	
FoxPro	14	8	

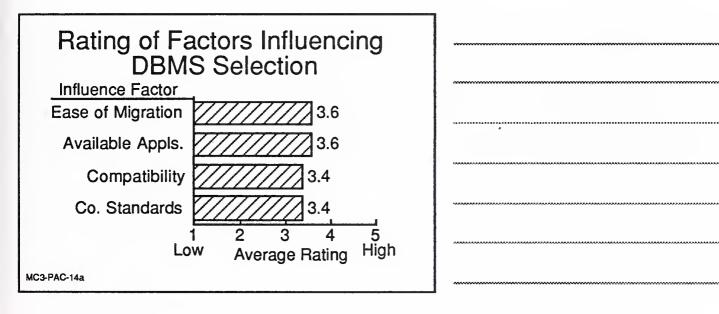
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	Proportion of I	Mentions (%)	***************************************
DBMS	Client	Server	***************************************
DB2	5	9	
Access	15)	•	
Other	43	38	

MC3-PAC-13b		INPUT	

Notes:



Conclusions on DBMS

- Oracle is well positioned on both C and S
- Microsoft gaining ground fast
 - FoxPro on both C and S
 - Access on clients

MC3-PAC-15a

Conclusions on DBMS

- Data base systems may be increasingly unnecessary on clients
 - 'Run-time' versions with data
 - No need for data management
- Variety of data base combinations exploding

MC3-PAC-15b

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Notes:

Vendor Strategies

MC3-PAC-16

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Vendor Strategies Systems Companies

- Establishing C/S units
 - IBM
- Data General
- Tandem Amdahl
- Generally attacking market
 - DEC

MC3-PAC-17a

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Vendor Strategies Systems Companies

- "Cosmetic" approach in many cases
- Attempting to 'co-opt' the market
- Supported by consultants/IS managers

MC3-PAC-17b

Vendor Strategies—Software Products Companies

- Running scared/hard
- High-end products
 - Downsizing products
 - Choosing ADEs difficult
 - Dramatically reduced pricing
 - Costly process

MC3-PAC-18a

Vendor Strategies—Software Products Companies

- Low-end products
 - Adding features/functions
 - Potential for network distribution
 - Slowing client growth
 - Server pricing difficult

MC3-PAC-18b

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Notes:

Vendor Strategies Services Companies

- Integrators leveraging knowledge
 - Andersen, CSC, Systemhouse, TRW
- Professional services companies switching skills
 - CGS, CTG, IMI

MC3-PAC-19a

INPUT

Vendor Strategies

- Developing software for multiple platforms
- Acquiring/developing C/S skills
- Establishing technology centers
- Struggling with marketing/sales
- Stepping across boundaries

MC3-PAC-20

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Conclusions

INPUT

MC3-PAC-21

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Conclusions

- Data supports:
 - Movement to users
 - Fragmentation
 - Movement away from "standards"
 - Movement towards interoperability

MC3-PAC-22

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Notes:

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Conclusions	······································
 C/S accelerates impact of price performance improvements 	
 Network products/services prime opportunities 	
 Internet is the network model of the future 	······································
Small ("piggyback") networks will multiply INPUT	

	1
Successful Products and	***************************************
Services—Marketing	
• Win "beauty contests"	
Influence the influencersPrice properly	·····
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Client/Server Strategy

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Tandem

Client/Server Strategy

- Fault tolerance and high availability for client/server (Himalaya Range)
- "Instant Information Everywhere"
- Client/Server as a customer service/customer delivery tool
- Shift away from proprietary systems

MC3-DR-1

INPUT

Tandem

INPUT Analysis

- Fierce market forced layoffs, hurt profits (Q3,'93)
- Himalaya Range must succeed
- UNIX-based OLTP focus for client/server strategically wise

MC3-DR-2

GUPTA Client/Server Strategy Develop/market easy-to-use, scalable, open software Build on success in comprehensive PC-based systems Enhance compatibility through alliance programs (ISV, NCP) **INPUT** MC3-DR-3 **GUPTA**

INPUT Analysis

- · Good products, smart market focus, successful results
- Support and marketing need improvement
- Comprehensive vision faces competition (Powersoft, KnowledgeWare)

MC3-DR-4

INPUT

Andersen

Client/Server Strategy

- Business Integration (BI) philosophy
- Strategic partnering (BIP program)
- Comprehensive software/service provisions

MC3-DR-5

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Andersen

INPUT Analysis

- Powerful, dynamic tools (Foundation)
- Business Integration=intelligent, successful strategy
- Well positioned, focused for client/server

MC3-DR-6

INPUT

EDS

Client/Server Strategy

- Match technology to customer business needs
- Help customers define/implement client/server solutions (Right Step Program)
- Explore/develop new client/server technology

MC3-DR-7

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EDS

INPUT Analysis

- Multi-platform, multi-application expertise
- Deep understanding of business/industry needs
- Substantial experience and resources

MC3-DR-8

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Notes: **OpenVision** Client/Server Strategy Offer all-encompassing client/server system (OpenV*OPSŚ) "Customer-centric" service Strategic acquisition/alliance practices **INPUT** MC3-DR-9 **OpenVision INPUT Analysis** · Young company, old experience (Mike Fields, Oracle) OpenV*OPSS not a "make-or-break" product Successful integration/ development of acquired products **INPUT** MC3-DR-10

Microsoft

Client/Server Strategy

- Windows=fundamental client/server structure
- Develop and market for lowthrough high-end users
- Continuous development, end-user focus (Hermes, Cairo)

MC3-DR-11

Microsoft

INPUT Analysis

- Position=top end-user GUI vendor
- NT is ambitious, but not proven
- NT, HERMES focus of extreme competition

MC3-DR-12

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Digital

Client Server Strategy

- Integrate technology, expertise, and industry focus
- New, comprehensive client/server services and business practices
- October 12, 1993—Over 170 new, C/S-focused products (Largest product announcement in Digital's history)

MC3-DR-13

INPUT

Digital

INPUT Analysis

- Acting on the need to change
- Positioned to provide client/server to installed base, and new customers
- Intriguing, strategic product direction

MC3-DR-14

Intersolv

Client/Server Strategy

- Open applications development, regardless of platform mixture
- "Mix and match" hardware, networks, and software development
- Fast, cost-effective development to give customers competitive advantages

MC3-DR-15

INPUT

Intersolv

INPUT Analysis

- Competitive player in applications development market
- Strategic alliances (ex. Powersoft, Digitalk) bolstering market presence, installed base
- Modular product strategy—avoiding problems of being "all encompassing" solutions vendor

MC3-DR-16

INPUT

Powersoft

Client/Server Strategy

- LAN-focused applications development
- Client/Server Open Development Environment (CODE) partner program of alliances
- "Object Easy, SQL Smart, Windows Rich, MIS Friendly" product design

MC3-DR-17

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Powersoft

INPUT Analysis

- One product company—risky position
- Strong competition—Gupta, KnowledgeWare, Microsoft
- PowerBuilder successful, but still evolving
- CODE program serving well

MC3-DR-18

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- Competitive position
- Acquisition targets

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