INFORMATION SYSTEMS PROGRAM

ANNUAL REPORT

INPUT NOVEMBER 1987

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OVERVIEW	
Objectives	
Annual Planning Procedures	
Major Issues	
- Driving Forces	
- Issues and Objectives	
- New Technology	
New Applications	
Budget Analysis	
	INPUT

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UP87: I-2	



OBJECTIVES

□ Identify and Analyze

- Business Forces Impacting Information Systems

- New Technologies of High Impact

- Trends in Information Systems Pending

D Provide INPUT's Views on

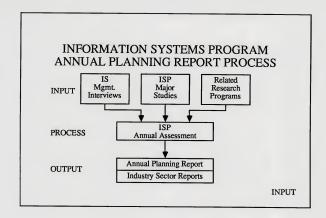
- Resulting Objectives for IS

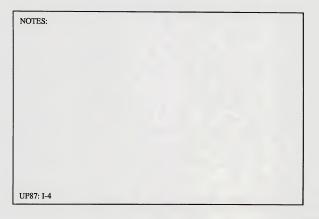
- Key Opportunities & Applications Trends

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INFORMATION SYSTEMS PROGRAM

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MAJOR ISSUES

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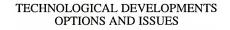
ISSUE HIERACRCHY

MAJOR ISSUE SECTION	FOCUS	TIMEFRAME
Driving Forces	Strategic	Over 3 Years
Issues	Tactical	Objectives
Objectives	Operational	0 to 2 Years

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Data Base-Relational and Distributed

Workstations

Networking

Electronic Data Interchange

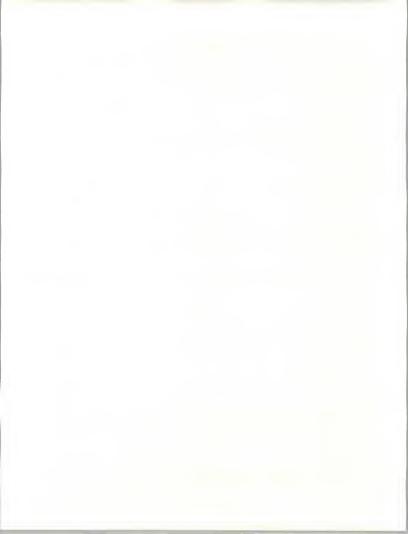
□ Managing Technology

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UP87: III-2		



- □ Rising Expectations of Senior Management
- □ Expanding Wealth of New Technologies
- Cost-Sensitive Business Environment

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DRIVING FORCES (Continued)

□ Ability to Conceptualize More Complex Applications

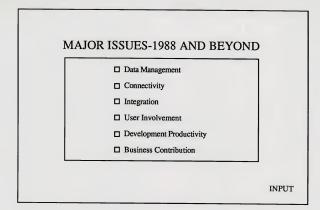
Growing Interaction Between Large Corporations

Unstable Organizational Environments

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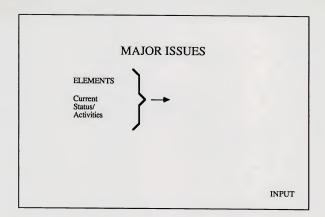
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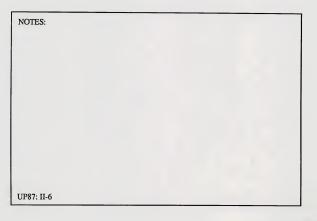




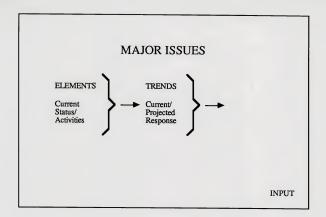
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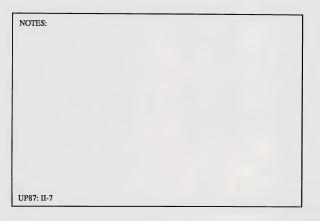




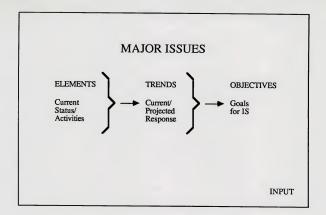


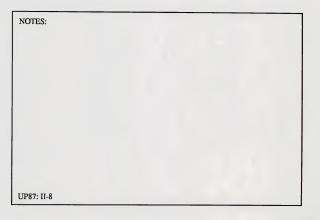




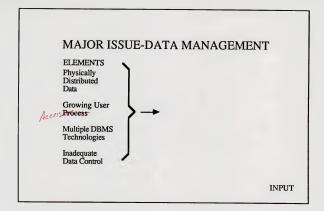






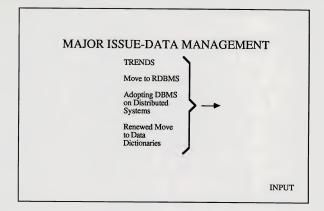


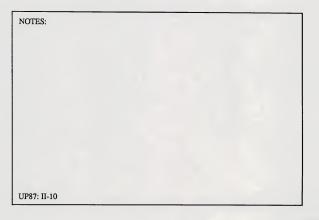




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MAJOR ISSUE-DATA MANAGEMENT

OBJECTIVES

Learn RDBMS

→ Train the User on RDBMS

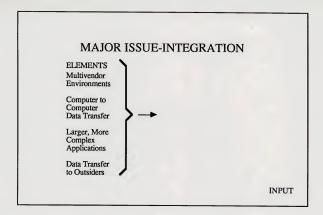
> Select a Standard for Each Level

Strengthen Data Processes

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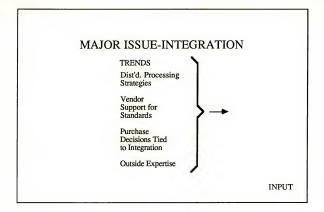
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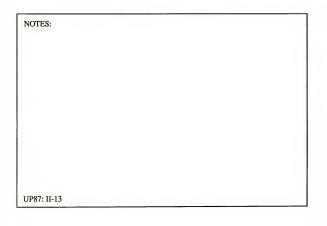




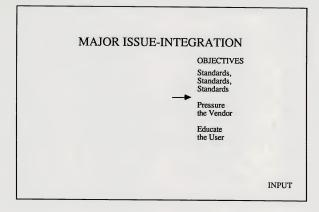
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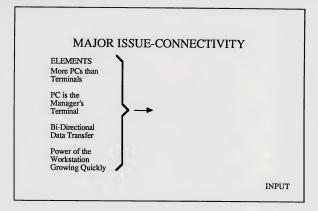






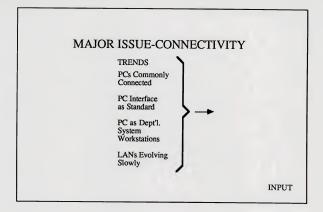


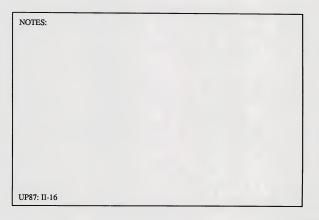




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MAJOR ISSUE-CONNECTIVITY

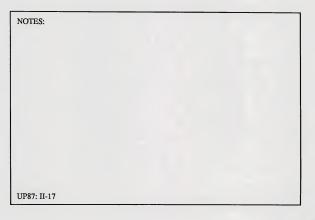
OBJECTIVES

Standards for Connectivity

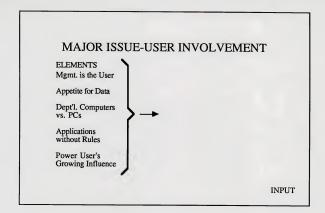
Info Center in Charge

> Programmable Workstation Preference

> > INPUT

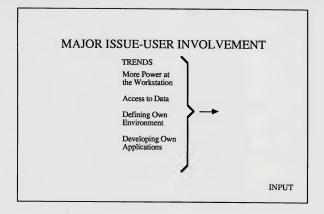


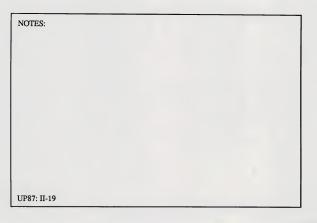




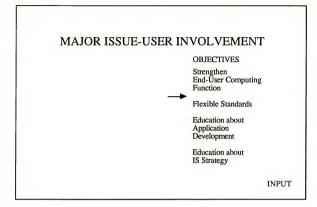
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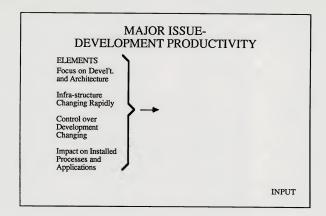






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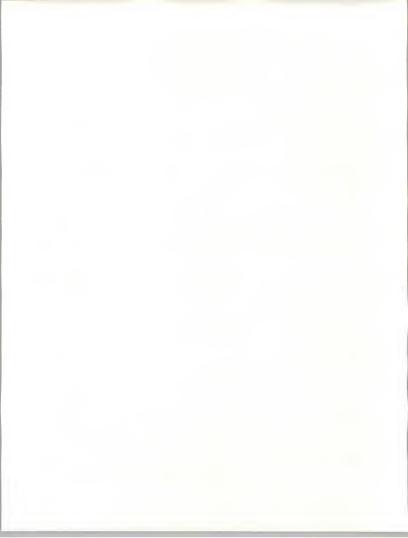


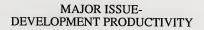
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OBJECTIVES Study CASE-Don't Jump Too Fast

User Involvement in Large Applications

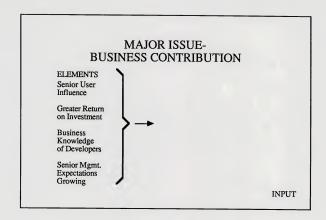
Set Rules for User Applications

User Education on Planning for Computing

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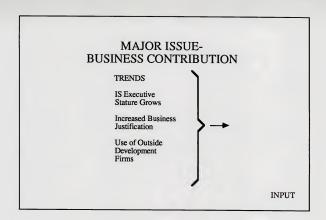
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MAJOR ISSUE-BUSINESS CONTRIBUTION

OBJECTIVES

Assume Strategic Role

Expose Senior Mgmt. to Technology

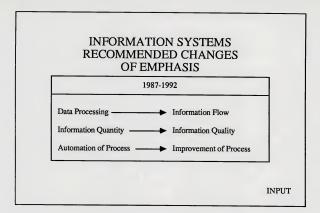
Monitor Competition's IS Program

Proactively Consider Outside Experts

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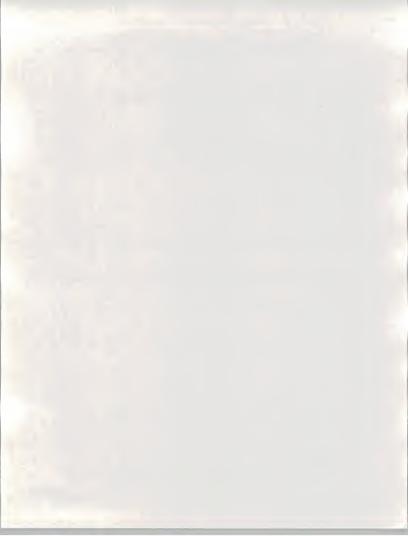
INFORMATION SYSTEMS PROGRAM

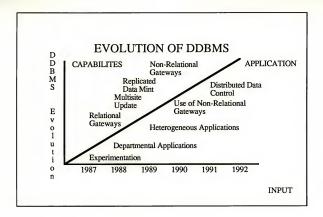
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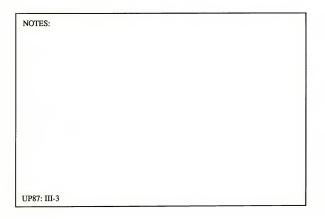
IMPACTS OF NEW TECHNOLOGY

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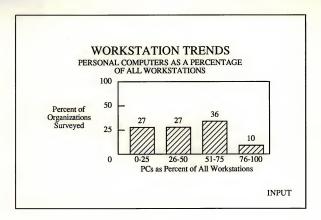
DDBMS-CRITICAL SUCCESS FACTORS

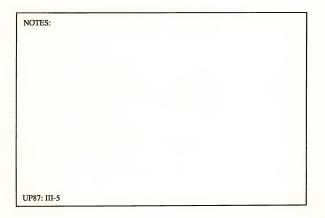
- 1. Know Relational DBMS Technology
- 2. Audit the Data Administration Function
- 3. Do a Controlled Experiment
- 4. Use a Homogeneous DBMS Environment
- 5. Involve a Mature End User
- 6. Use a Geographically Dispersed Application
- 7. Select a Non-Strategic Aplication

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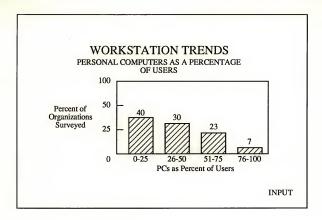
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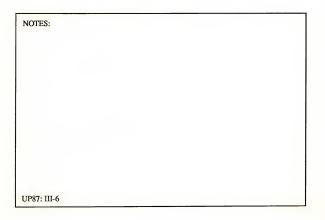




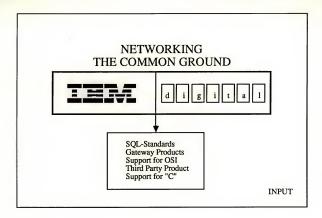






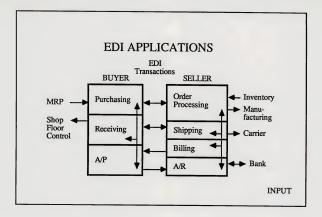


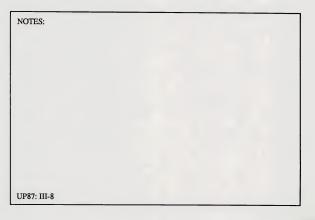




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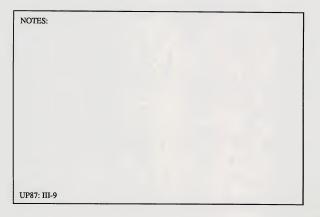








- □ Applications
- Enhanced Services: E-mail, E-forms, Data Bases
- □ Internetworking
- Media (Data, Graphics, Voice, Video)

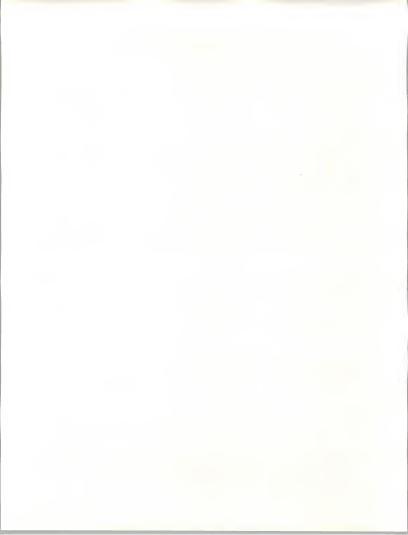




IS MANAGEMENT FOCUS

TECHNOLOGY INTEGRATION	Infrastructure Data Management User Interfaces	
MANAGEMENT OF IS	Productivity of IS Simplification of Support User-Managed Development	
STRATEGIC	AND ADVANCED SYSTEMS	

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INFORMATION SYSTEMS PROGRAM

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NEW APPLICATION TRENDS AND DEVELOPMENT RESOURCE ALLOCATION

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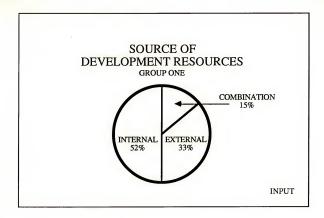
NEW APPLICATION TRENDS CROSS INDUSTRY SUMMARY

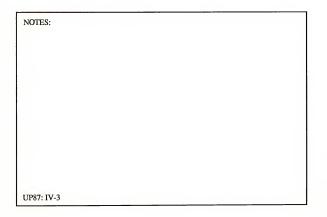
- Electronic Data Interchange
- Business Analysis and Management Tools
- Purchasing Package Software
- □ Strategic Applications
- □ RDBMS on the Minicomputer (MID) Level

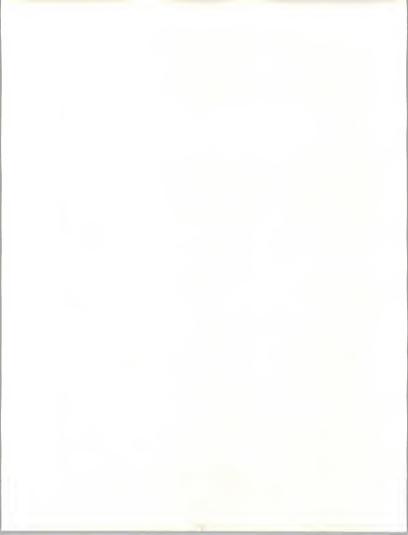
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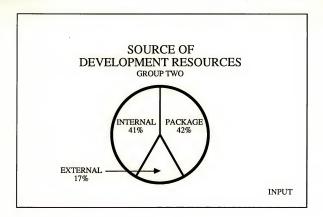
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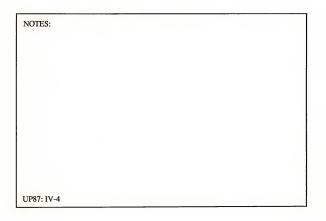




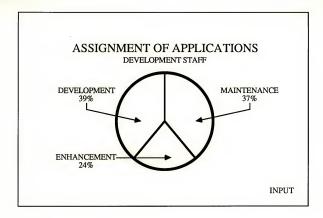


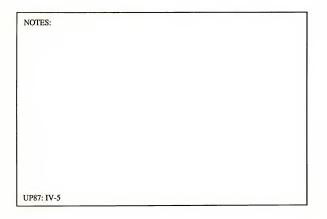














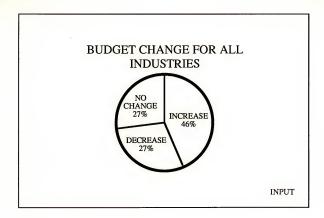
INFORMATION SYSTEMS PROGRAM ANNUAL REPORT

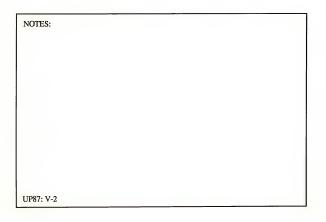
BUDGET ANALYSIS 1987-1988

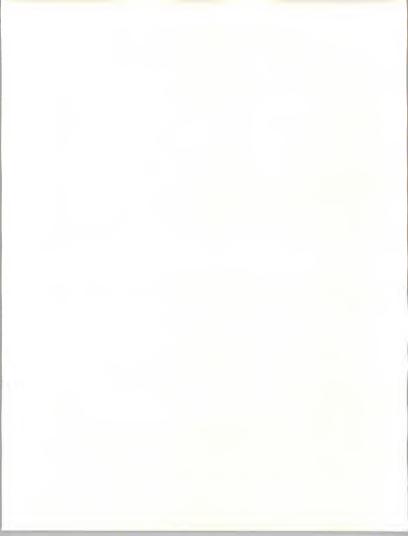
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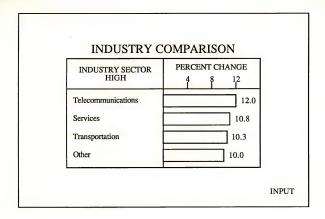
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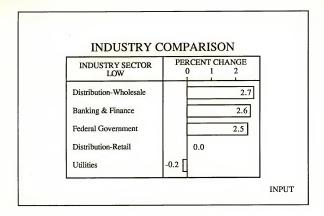


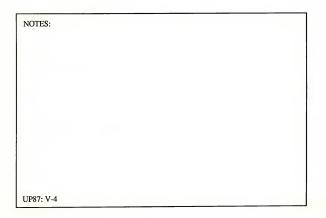




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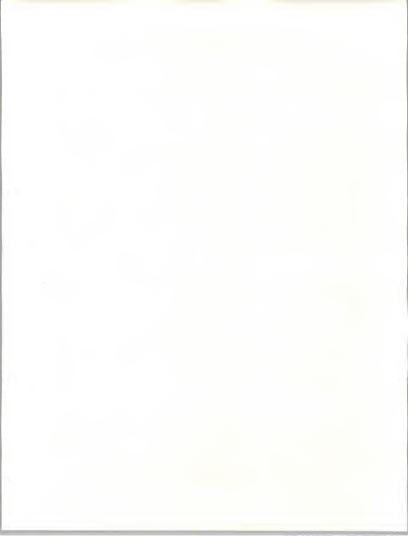






INDUSTRY SECTOR	PERCENT
HIGH	10 20 30 40 50
Education	48.
Transportation	10.2 47.
Discrete Manufacturing	46.0
Distribution- Wholesale	44.5

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INDUSTRY SECTOR	PERCENT
LOW	10 20 30 40 50
State & Local Government	2.9 2.9 2.9
Services	2.7
Federal Government	22.5

NOTES:	
UP87: V-6	



PERSONNEL EXPENDITURES

INDUSTRY SECTOR	ALLOCATION (Percent)	CHANGE (Percent)
Largest Change Insurance	34.1	15.3
Smallest Change Distribution-Retail	41.8	1.1

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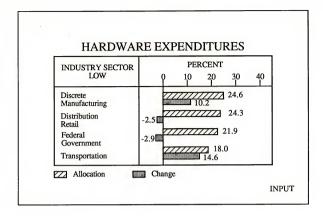
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INDUSTRY SECTOR HIGH	PERCENT
Services	45.3
State & Local Government	43.3
Other	40.0

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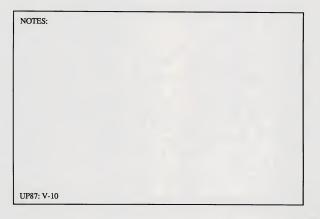
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HARDWARE EXPENDITURES

INDUSTRY SECTOR	ALLOCATION (Percent)	CHANGE (Percent)
Largest Change Services	45.3	18.2
Smallest Change Federal Government	21.9	-2.9

INPUT





HARDWARE EXPENDITURES PERCENT CHANGE MAINFRAME-MINI-MICRO

INDUSTRY SECTOR	MAIN	MINI	MICRO	MASS	OTHER	TOTAL
Services	18.8	0.0	18.8	0.0	17.8	18.2
Transport.	16.4	8.5	7.1	0.0	0.0	14.6
Discr. Mfg.	10.9	6.2	15.1	8.0	3.5	10.2

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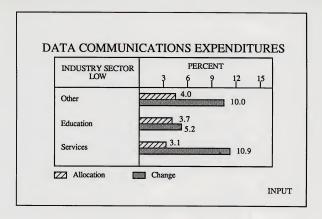
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INDUSTRY SECTOR	PERCENT	
HIGH	10 20 30 40	50
Transporation	22.8	
Insurance	10.3 18.3	
Distribution- Retail	6.0 12.0	

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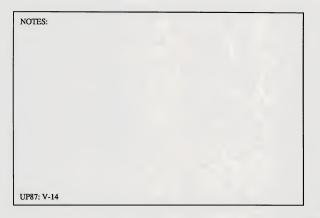
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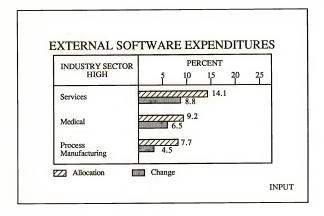
DATA COMMUNICATIONS EXPENDITURES

INDUSTRY SECTOR	ALLOCATION (Percent)	CHANGE (Percent)
Largest Change Insurance	18.3	10.3
Smallest Change Telecommunications	5.3	-12.0

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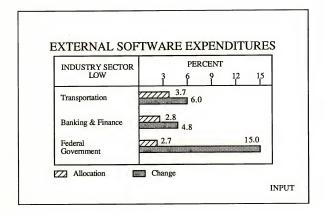






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EXTERNAL SOFTWARE EXPENDITURES

INDUSTRY SECTOR	ALLOCATION (Percent)	CHANGE (Percent)
Largest Change Telecommunications	7.2	19.0
Smallest Change Distribution-Retail	6.1	-1.4

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