INFORMATION SYSTEMS PROGRAM

ANNUAL REPORT

INPUT NOVEMBER 1987

INPUT

NOTES:		
UP87: I-1		



OVERVIEW	
Objectives	
Annual Planning Procedures	
□ Major Issues	
- Driving Forces	
- Issues and Objectives	
- New Technology	
New Applications	
Budget Analysis	
	INIDUT
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UP87: I-2		



OBJECTIVES

Identify and Analyze

- Business Forces Impacting Information Systems

- New Technologies of High Impact

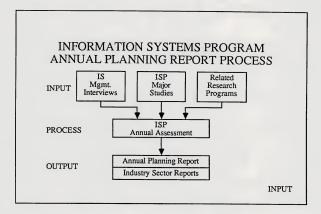
- Trends in Information Systems Spending

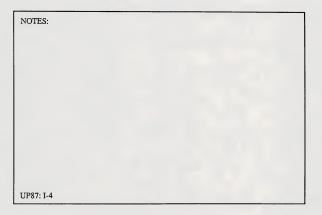
Provide INPUT's Views on

- Resulting Objectives for IS

- Key Opportunities & Applications Trends









INFORMATION SYSTEMS PROGRAM

ANNUAL REPORT

MAJOR ISSUES

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ISSUI	EHIERAR	СНҮ	
MAJOR ISSUE SECTION	FOCUS	TIMEFRAME	
Driving Forces Issues Objectives	Strategic Tactical Operational	Over 3 Years 2 - 3 Years 0 to 2 Years	
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UP87: II-2	

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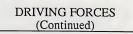


DRIVING FORCES

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

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UP87: II-3	





□ Ability to Conceptualize More Complex Applications

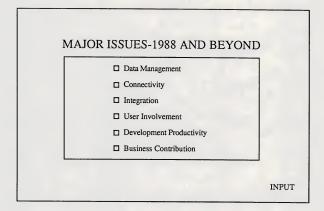
Growing Interaction Between Large Corporations

Unstable Organizational Environments

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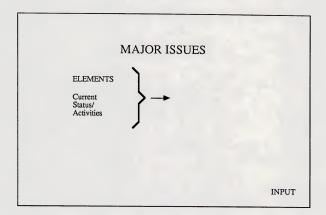


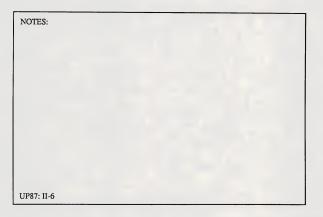




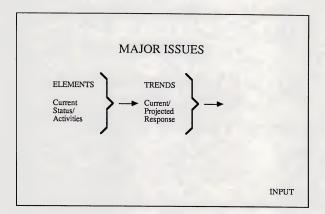
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UP87: II-5	





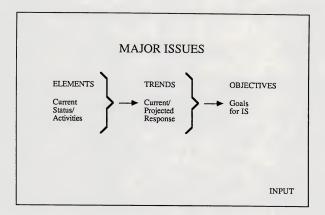


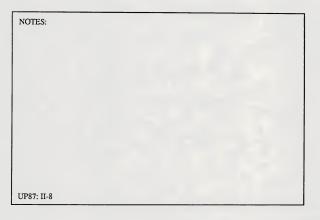




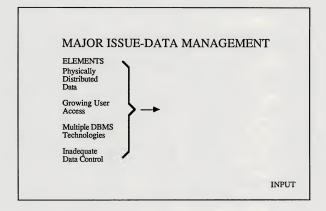








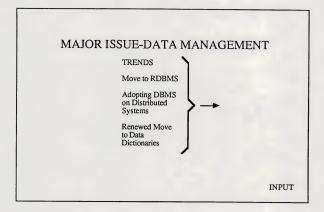




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UP87: II-9		

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MAJOR ISSUE-DATA MANAGEMENT

OBJECTIVES Learn RDBMS

Train the User
on RDBMS

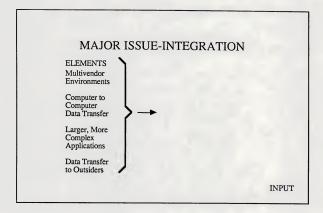
Select a Standard for Each Level

Strengthen Data Processes

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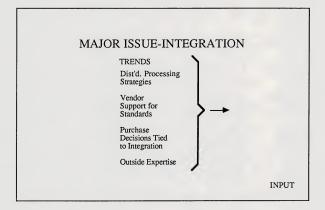
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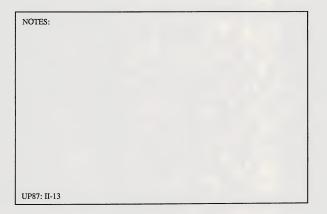














MAJOR ISSUE-INTEGRATION

OBJECTIVES

Standards, Standards, Standards

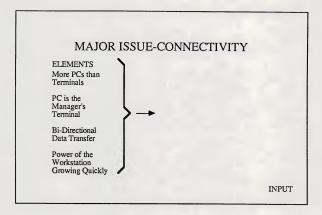
Pressure the Vendor

Educate the User

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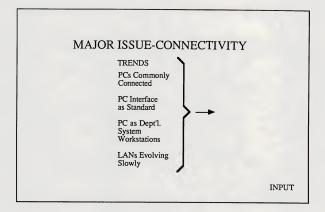
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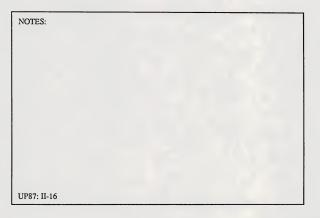




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MAJOR ISSUE-CONNECTIVITY

OBJECTIVES

Standards for Connectivity

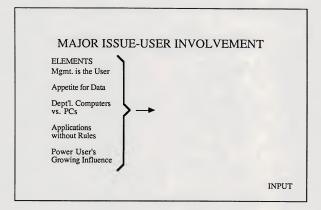
 Info Center in Charge

> Programmable Workstation Preference

> > INPUT

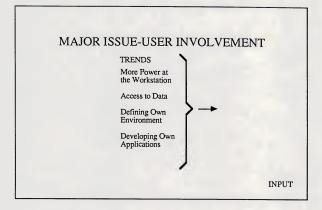






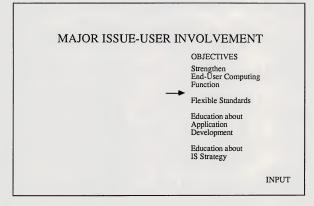
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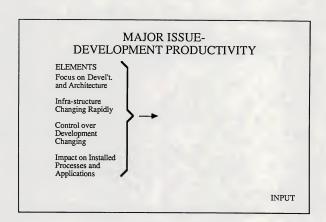






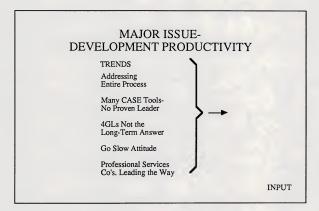
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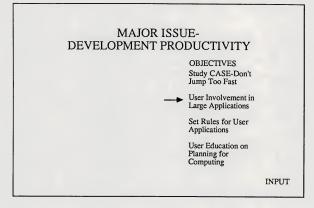
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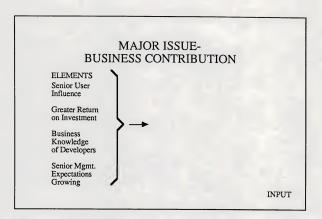
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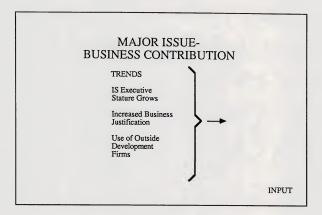




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MAJOR ISSUE-BUSINESS CONTRIBUTION

OBJECTIVES

Assume Strategic Role

 Expose Senior Mgmt. to Technology

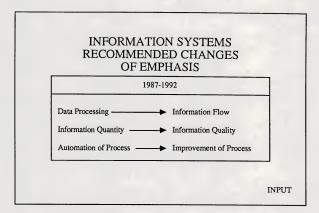
Monitor Competition's IS Program

Proactively Consider Outside Experts

INPUT







NOTES:	
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UP87: II-27	



INFORMATION SYSTEMS PROGRAM

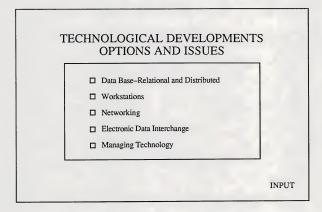
ANNUAL REPORT

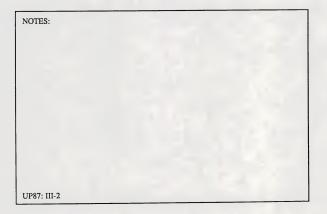
IMPACTS OF NEW TECHNOLOGY

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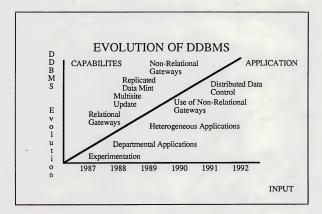
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UP87: III-1	











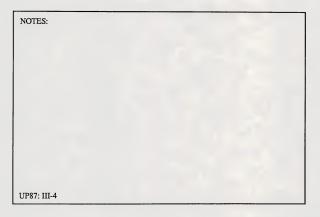




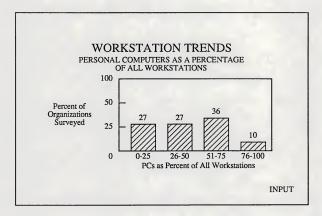
DDBMS-CRITICAL SUCCESS FACTORS

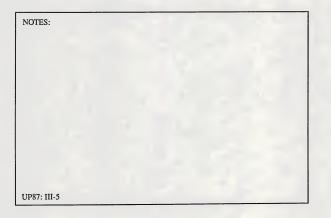
- 1. Know Relational DBMS Technology
- 2. Audit the Data Administration Function
- 3. Do a Controlled Experiment
- 4. Use a Homogeneous DBMS Environment
- 5. Involve a Mature End User
- 6. Use a Geographically Dispersed Application
- 7. Select a Non-Strategic Aplication

INPUT

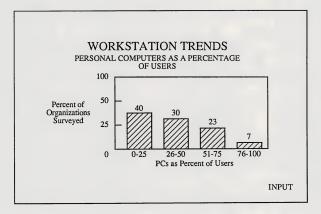


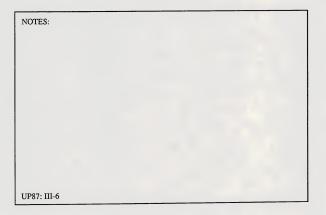




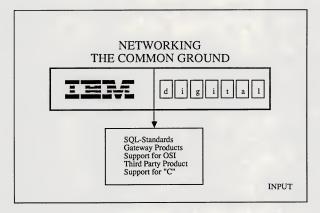


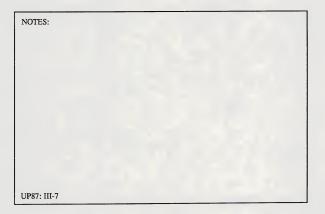




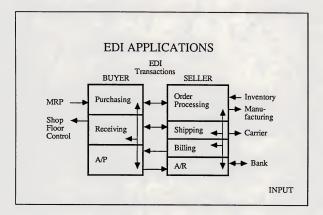


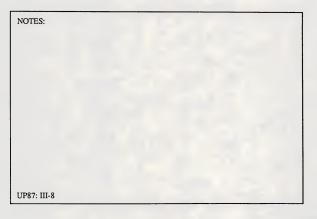




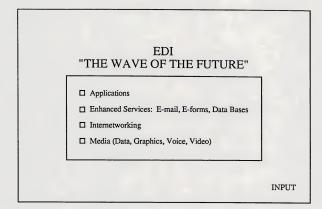
















IS MANAGEMENT FOCUS

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

NOTES:	
	Furth Friday
UP87: III-10	

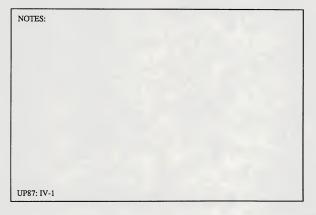


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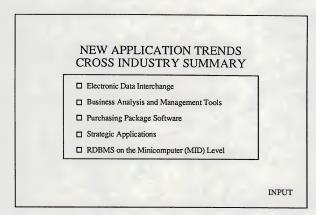
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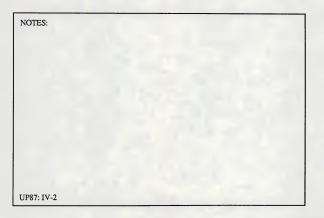
NEW APPLICATION TRENDS AND DEVELOPMENT RESOURCE ALLOCATION

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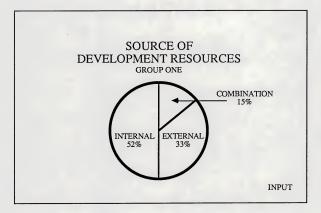






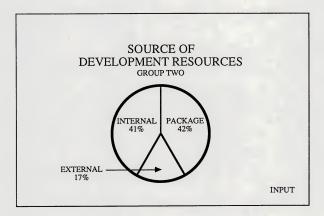


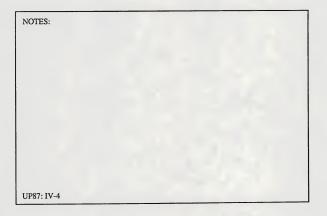




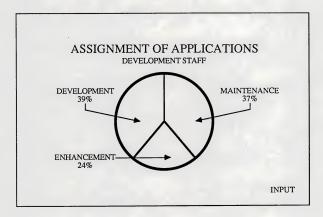
















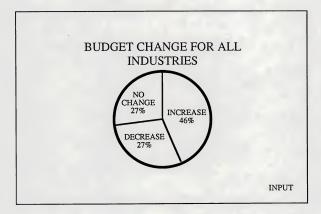
INFORMATION SYSTEMS PROGRAM ANNUAL REPORT

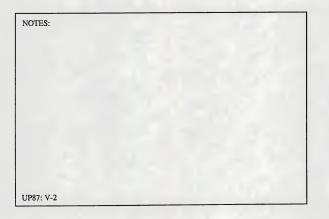
BUDGET ANALYSIS 1987-1988

INPUT

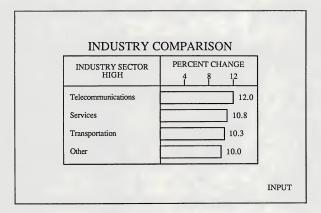


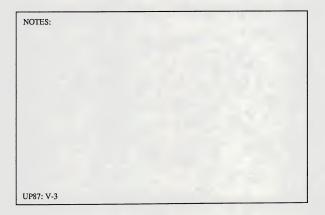




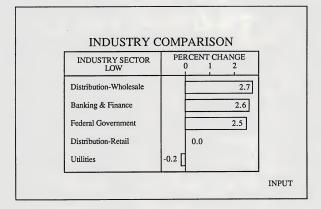


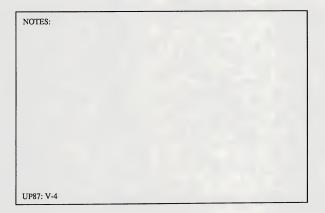














INDUSTRY SECTOR HIGH	PERCENT 10 20 30 40 50
Education	48.2
Transportation	47.2
Discrete Manufacturing	46.0
Distribution- Wholesale	44.5

1
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INDUSTRY SECTOR		
LOW		50
State & Local Government	2.9 2.9	
Services	27.9 2.7	
Federal Government	3.6	

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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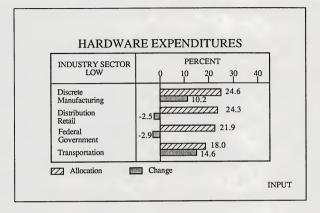
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UP87: V-7		

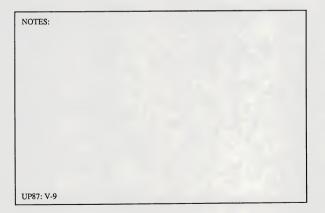


INDUSTRY SECTOR	PERCENT
HIGH	10 20 30 40 50
Services	45.3
State & Local Government	43.3
Other	40.0

NOTES:	
UP87: V-8	









HARDWARE EXPENDITURES

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

INPUT

NOTES:	
UP87: V-10	



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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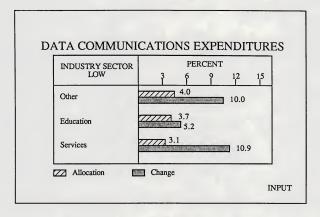
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UP87: V-11		



INDUSTRY SECTOR	PERCENT	
HIGH	10 20 30	40 5
Transporation	22.8	
Insurance	18.3	
Distribution- Retail	777777 12.0 6.0	

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UP87: V-12	





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UP87: V-13		



DATA COMMUNICATIONS EXPENDITURES

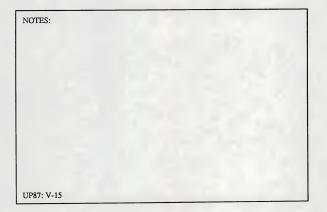
INDUSTRY SECTOR	ALLOCATION (Percent)	CHANGE (Percent)
Largest Change Insurance	18.3	10.3
Smallest Change Telecommunications	5.3	-12.0

INPUT

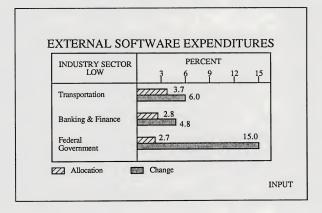
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	2.7.5
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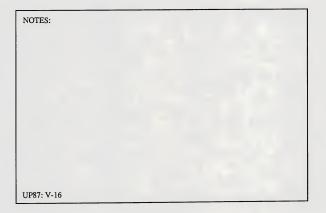


INDUSTRY SECTOR	PI	ERCENT	
HIGH	5 10	15 2	$\frac{20}{1}$ $\frac{25}{1}$
Services	8.8	ZZZ 14.1	
Medical	9. 6.5	2	
Process Manufacturing	4.5 7.7		











EXTERNAL SOFTWARE EXPENDITURES

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

INPUT

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UP87: V-17	

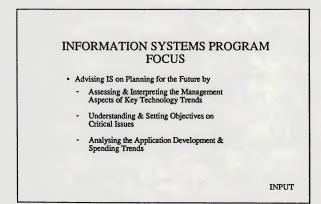


INFORMATION SYSTEMS PROGRAM ANNUAL REPORT

1988 PLAN

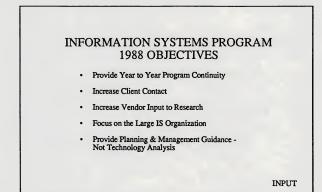
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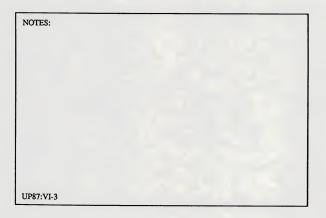




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INFORMATION SYSTEMS PROGRAM 1988 PROGRAM

2 SEMINARS	3 REPORTS	2 REPORT SERIES
March June	DBMS CASE Annual	Workstation Strategies DEC vs. IBM

NOTES:		
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UP87:VI-4		



INFORMATION SYSTEMS PROGRAM 1988 PROGRAM

- Seminars
 - One Day
 - Current Research
 - Other Program Research
 - Outside Speaker

NOTES:	 	
UP87:VI-5		





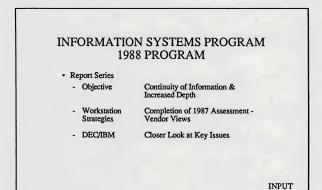
· Reports

-	DBMS	Focus on Relational DBMS & Data
		Management Process

- CASE State of the Technology & its Application
- Annual Larger Interview Sample & First Half Publication

NOTES:	
UP87:VI-6	





NOTES:	
UP87:VI-7	



INFORMATION SYSTEMS PROGRAM 1988 PROGRAM

- Client Support
 - Hotline
 - Quarterly Vendor Watch
 - Annual Client Conference
 - Annual Onsight Presentation (Oct/Nov)

