

FOREIGN BROADCAST INFORMATION SERVICE

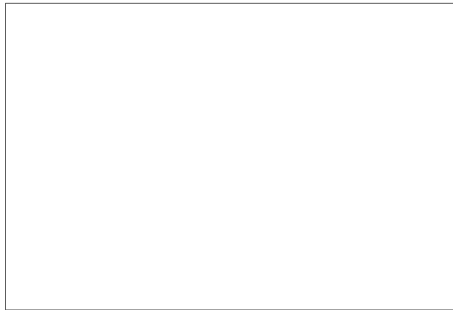
CONCEPT DEFINITION PHASE

PHASE 4 REVIEW

JANUARY 7, 1985

XEROX SPECIAL INFORMATION SYSTEMS

Xerox Special Information Systems



YSIS
YSIS
local XEROX
local XEROX

STAT

LOC - total job

REVIEW AGENDA

- Architecture Review
- System Design Changes
- Program Build Plan
- Program Cost Estimates

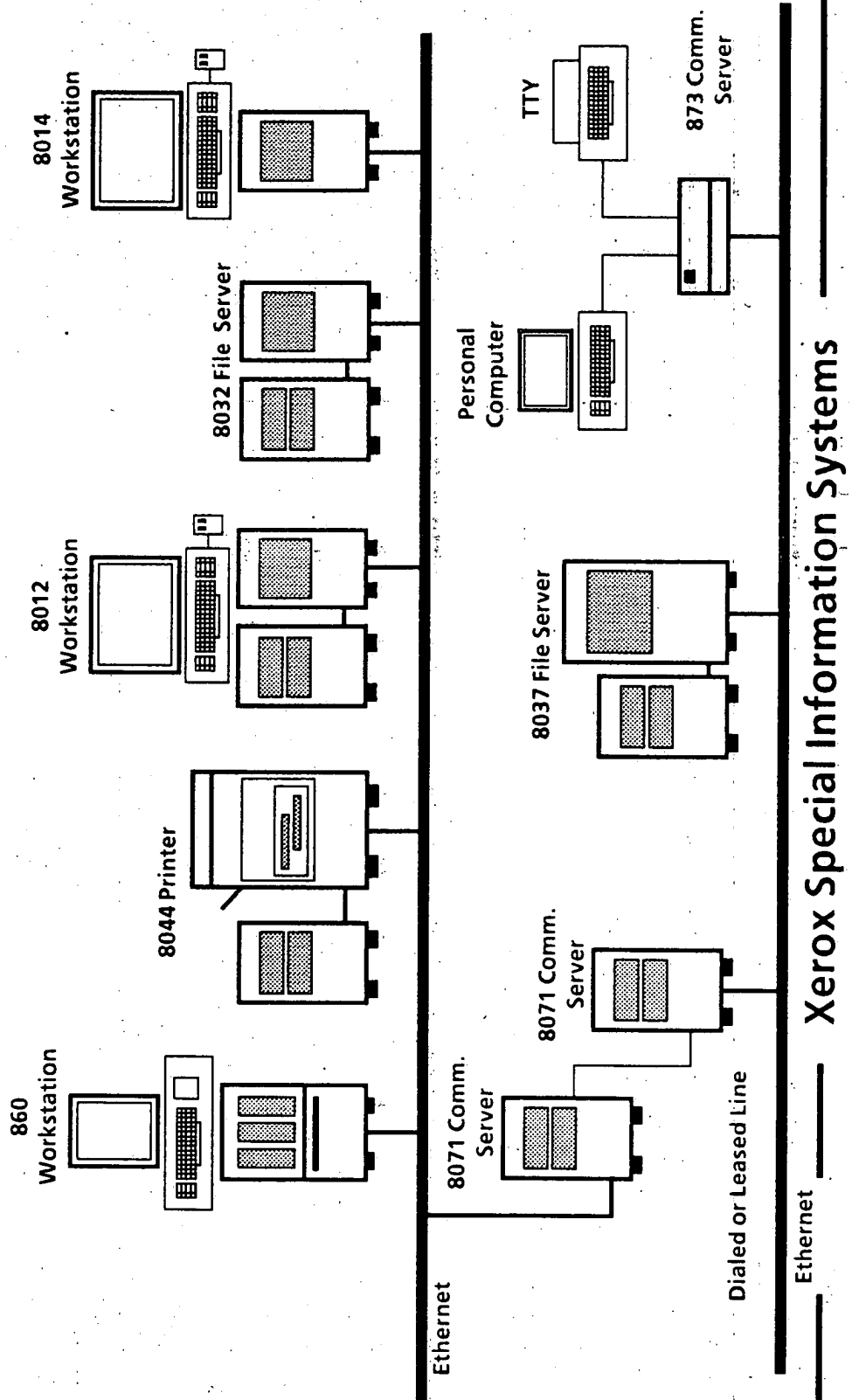


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DISTRIBUTED ARCHITECTURE

DISTRIBUTED :

- Functions distributed among capable workstations & servers
- Accessed via local & remote workstations (e.g. Xerox 8000NS)



CHARACTERISTICS OF DISTRIBUTED ARCHITECTURE

- Tasks (functions) distributed among many communicating processors of two generic types:
 - ▶ Workstations running client tasks for user interface.
 - ▶ Servers running services (e.g. printing, mailing, filing, communications gateways) for client processes.
- Parallel processing of independent tasks.
- High system reliability--not dependent on any single processor.
- Decentralized control and data access.
- Distributed system generally provides greater throughput than centralized system of the same cost.

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SYSTEM DESIGN CHANGES

Derived from Requirements Revisions

Simplified Collection Automation

Simplified DBMS

No Multilingual Capability in Bureaus

Simplified Graphics Handling

No DBMS Capability at Composition Terminals

Derived from Internal Schedule & Risk Review

Replace Publication System with Existing TALON System

Replace Mail Gateway with VAX Running Modified

Message Handling Facility Software

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VAX-BASED MAIL GATEWAY

**Xerox Automatic Printing & Routing System (APARS) in
Operation at Agency**

Now Developing Message Handling Facility (MHF)

Interfaces Autodin with APARS

Archives Messages, Creates Input & Output Logs

Manages Multiple Precedence Queues

Meets FBIS Requirements with Minor Additions

MHF Available Mid-1985

Add Autodin--Mail Message Format Conversion

Add Mail Message--Wire Service Format Conversion

Add Precedence & Queue Change, Pre-emption

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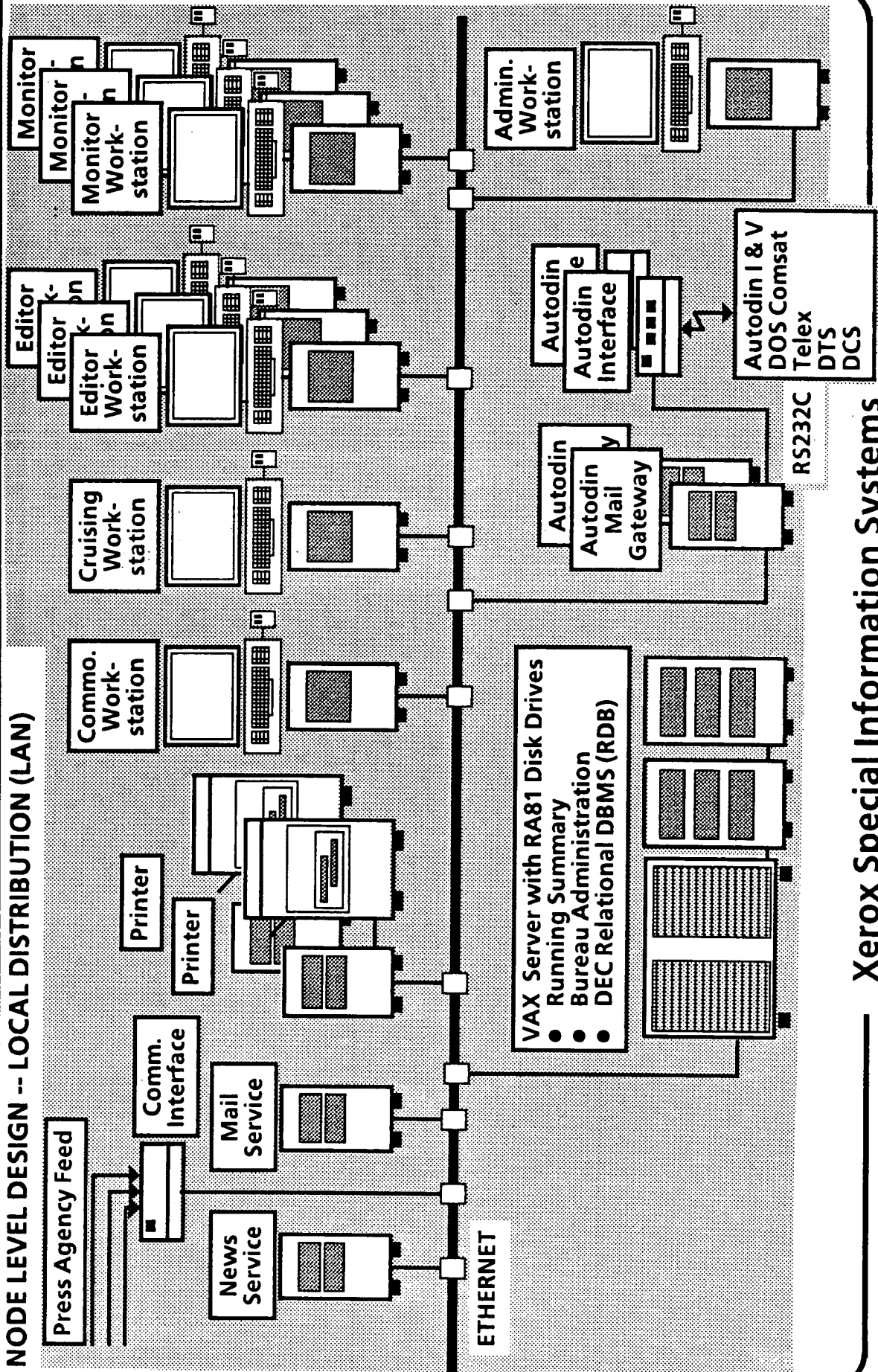
TALON PUBLICATION SYSTEM

**System Demonstrated at Graph Expo
Based on Existing Xerox Integrated Composition System
VAX-based, Ethernet Compatible
Uses new VAXstation VS/100 as Composition Station**

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GENERIC BUREAU SYSTEMS ARCHITECTURE

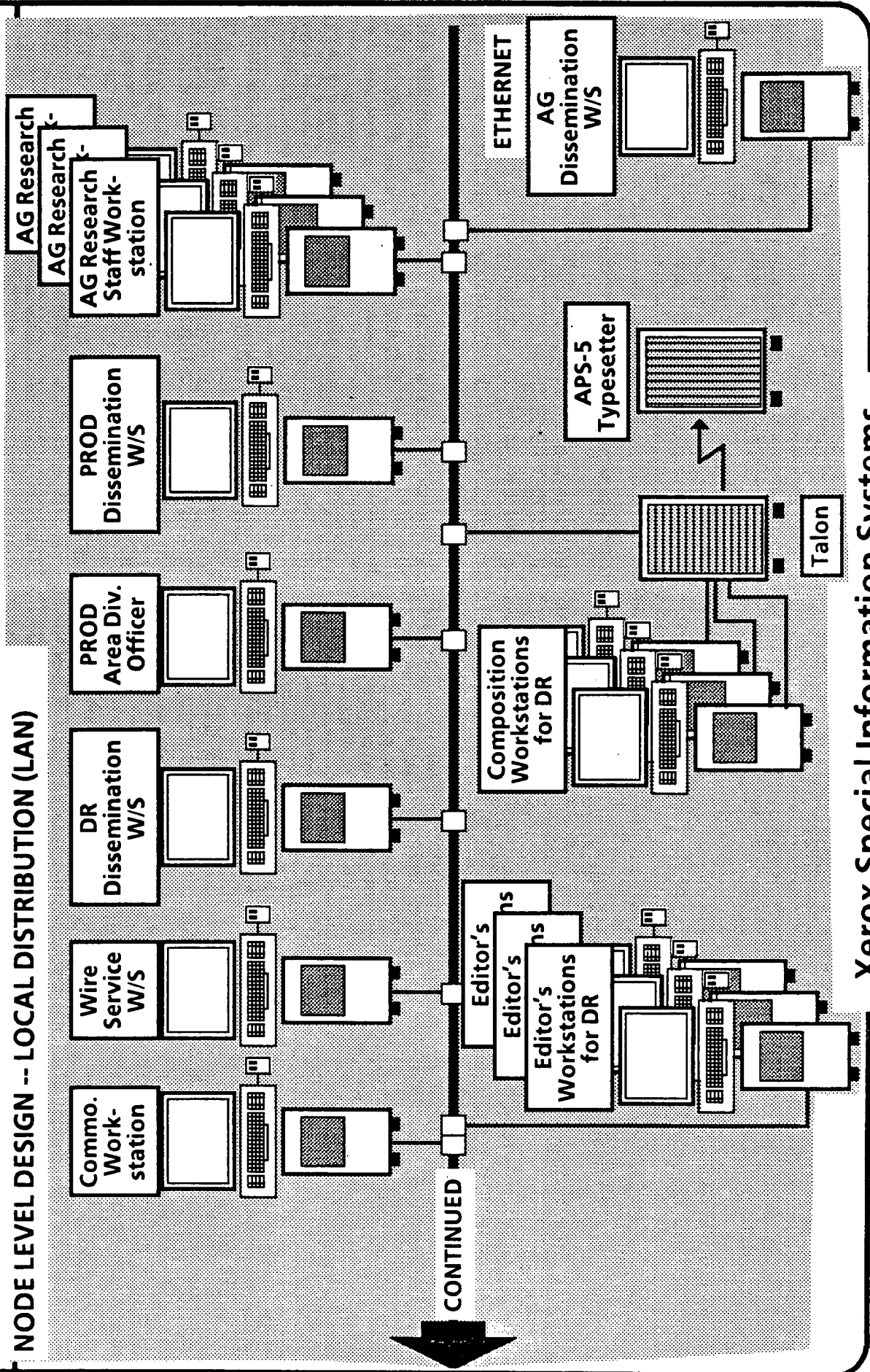
NODE LEVEL DESIGN -- LOCAL DISTRIBUTION (LAN)



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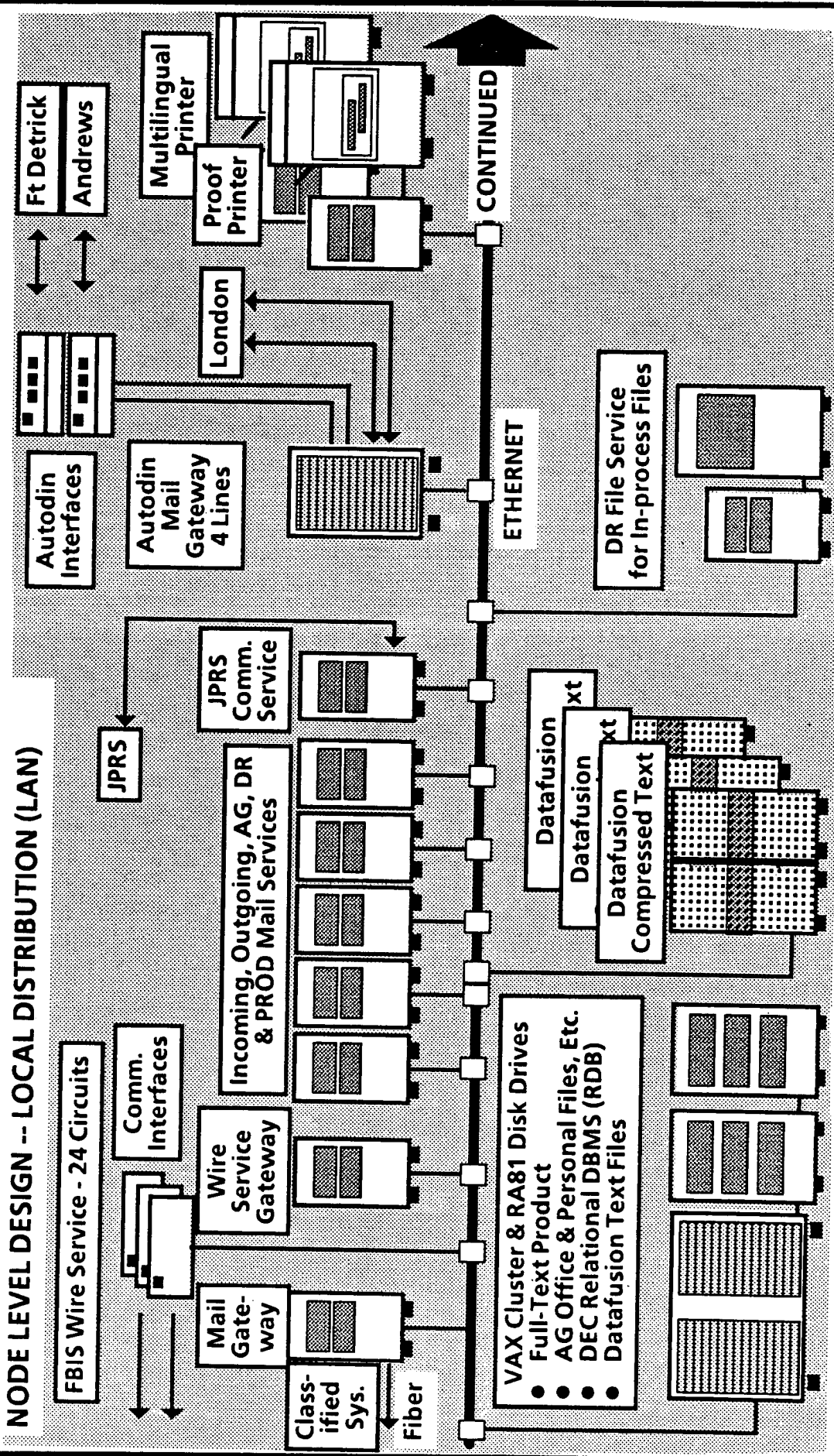
HEADQUARTERS UNCLASSIFIED SYSTEMS ARCHITECTURE - WORKSTATIONS

NODE LEVEL DESIGN -- LOCAL DISTRIBUTION (LAN)



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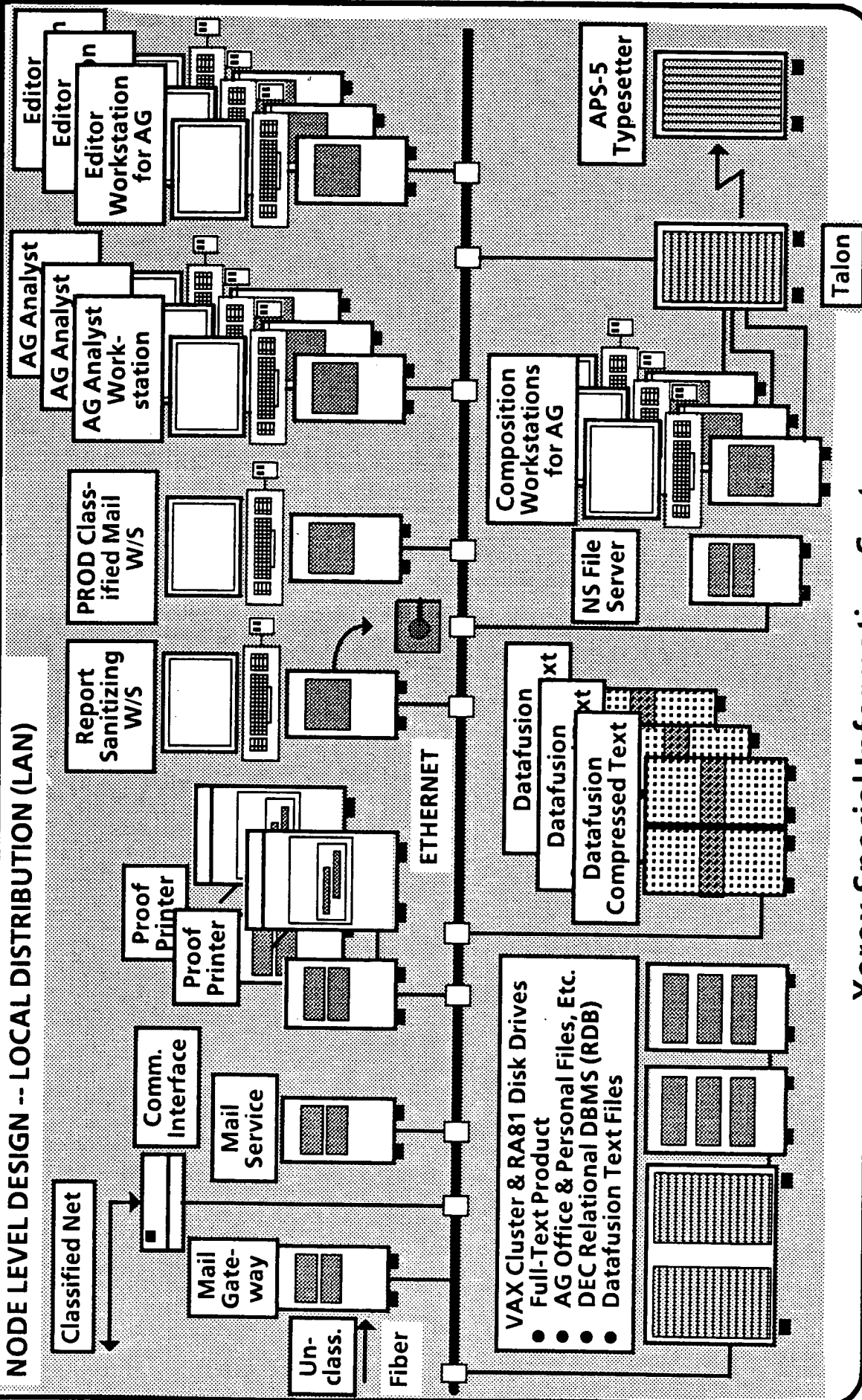
HEADQUARTERS UNCLASSIFIED SYSTEMS ARCHITECTURE - SERVICES



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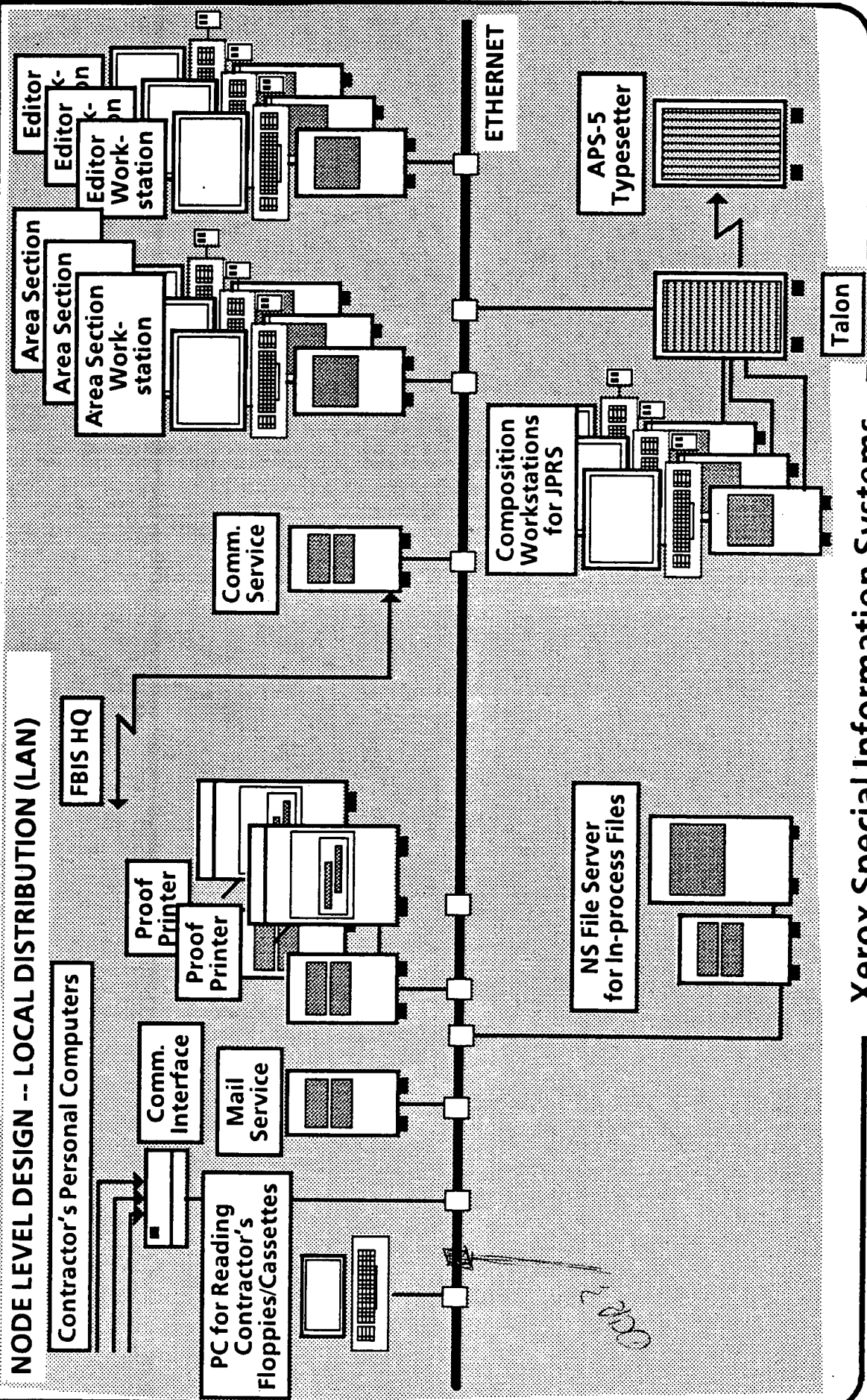
HEADQUARTERS CLASSIFIED SYSTEMS ARCHITECTURE

NODE LEVEL DESIGN -- LOCAL DISTRIBUTION (LAN)

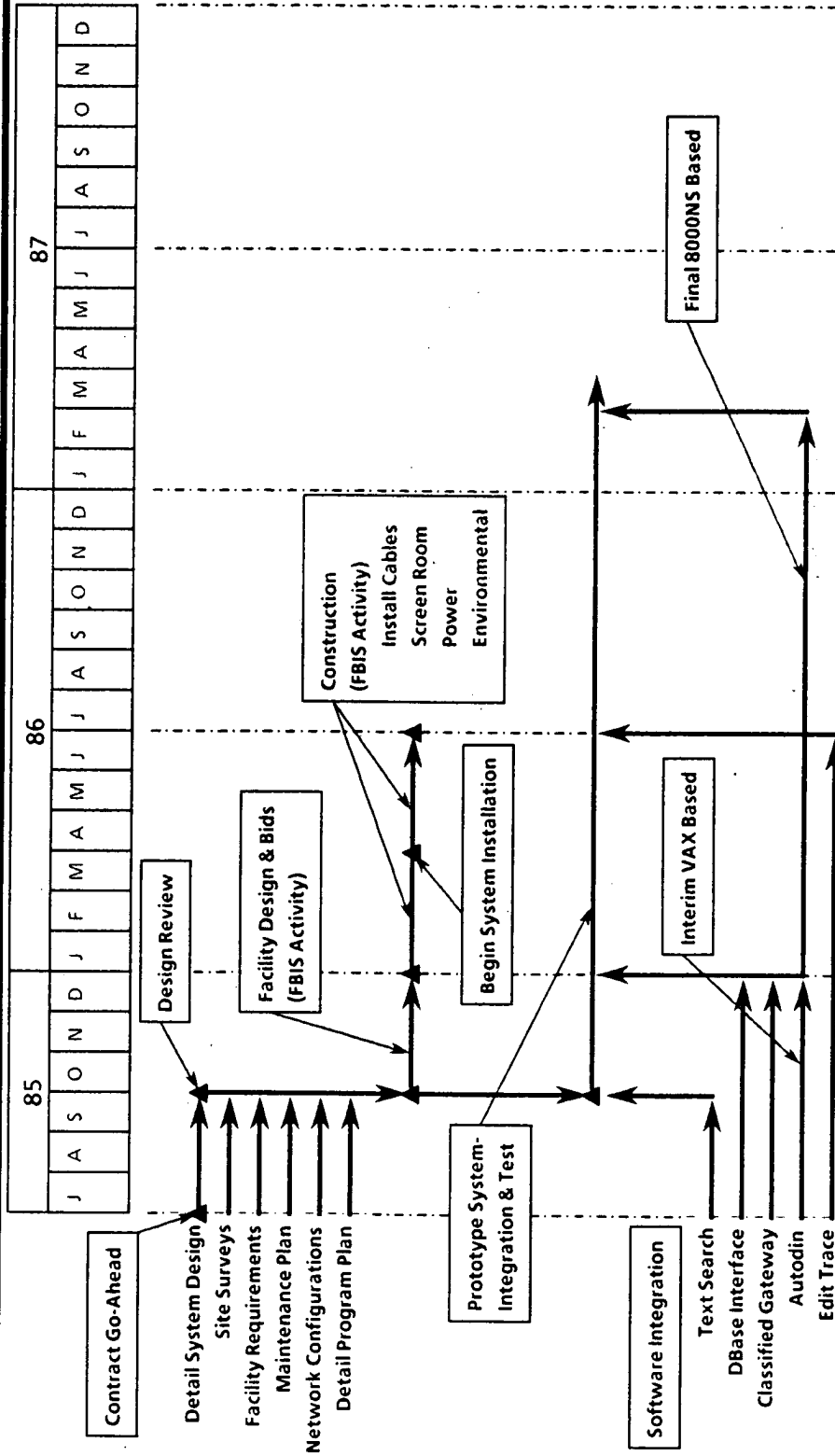


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JPRS SYSTEMS ARCHITECTURE

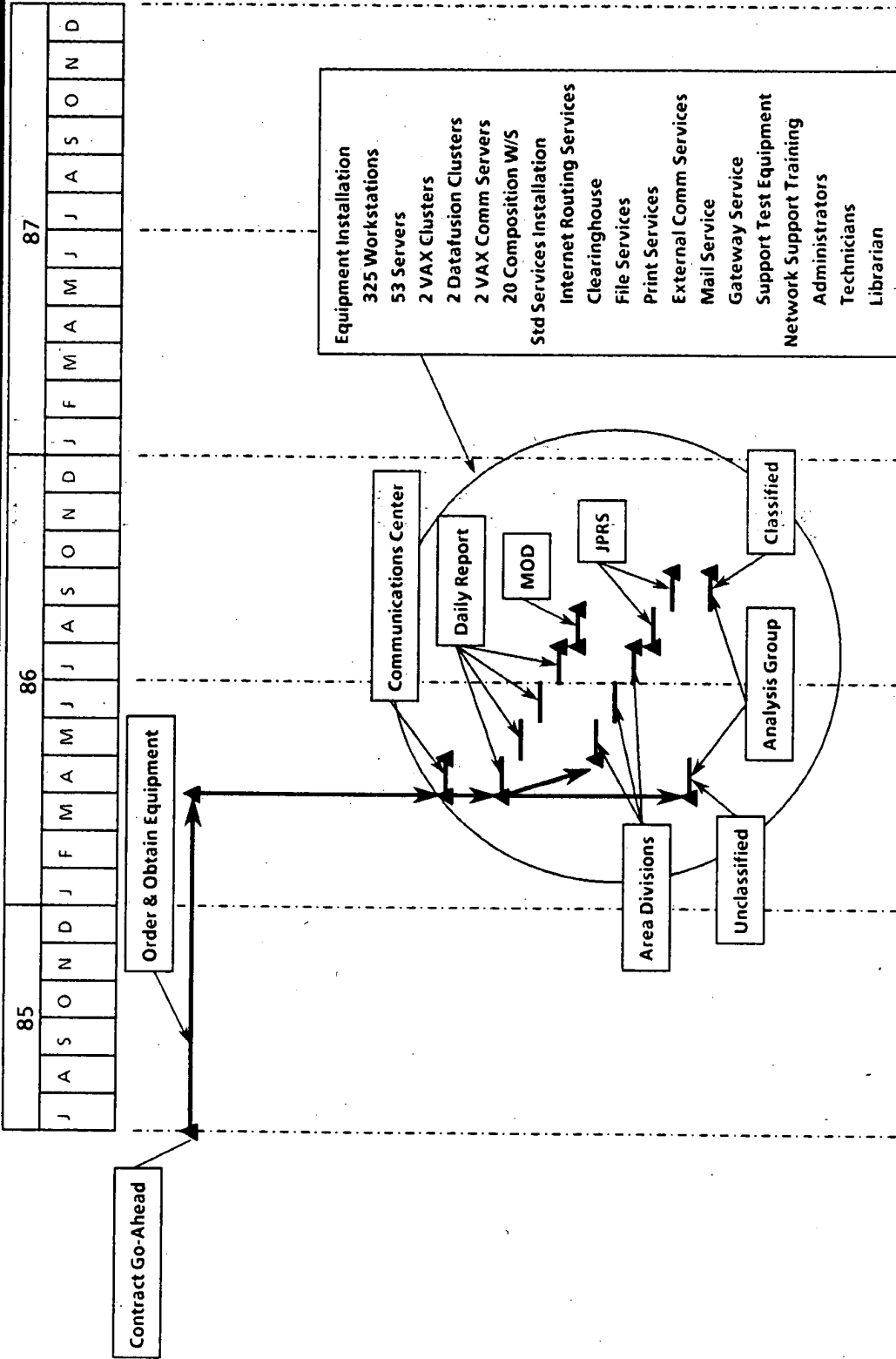


HEADQUARTERS MODERNIZATION System Activities



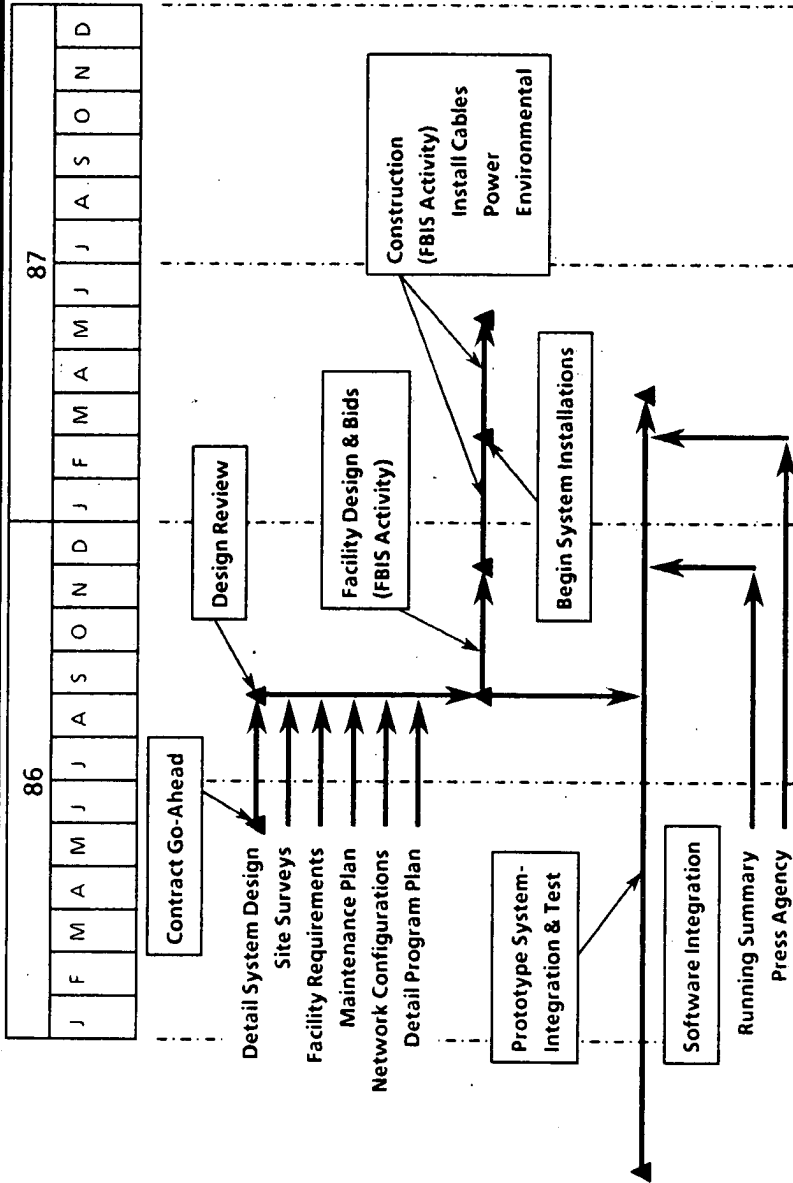
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HEADQUARTERS MODERNIZATION System Installation



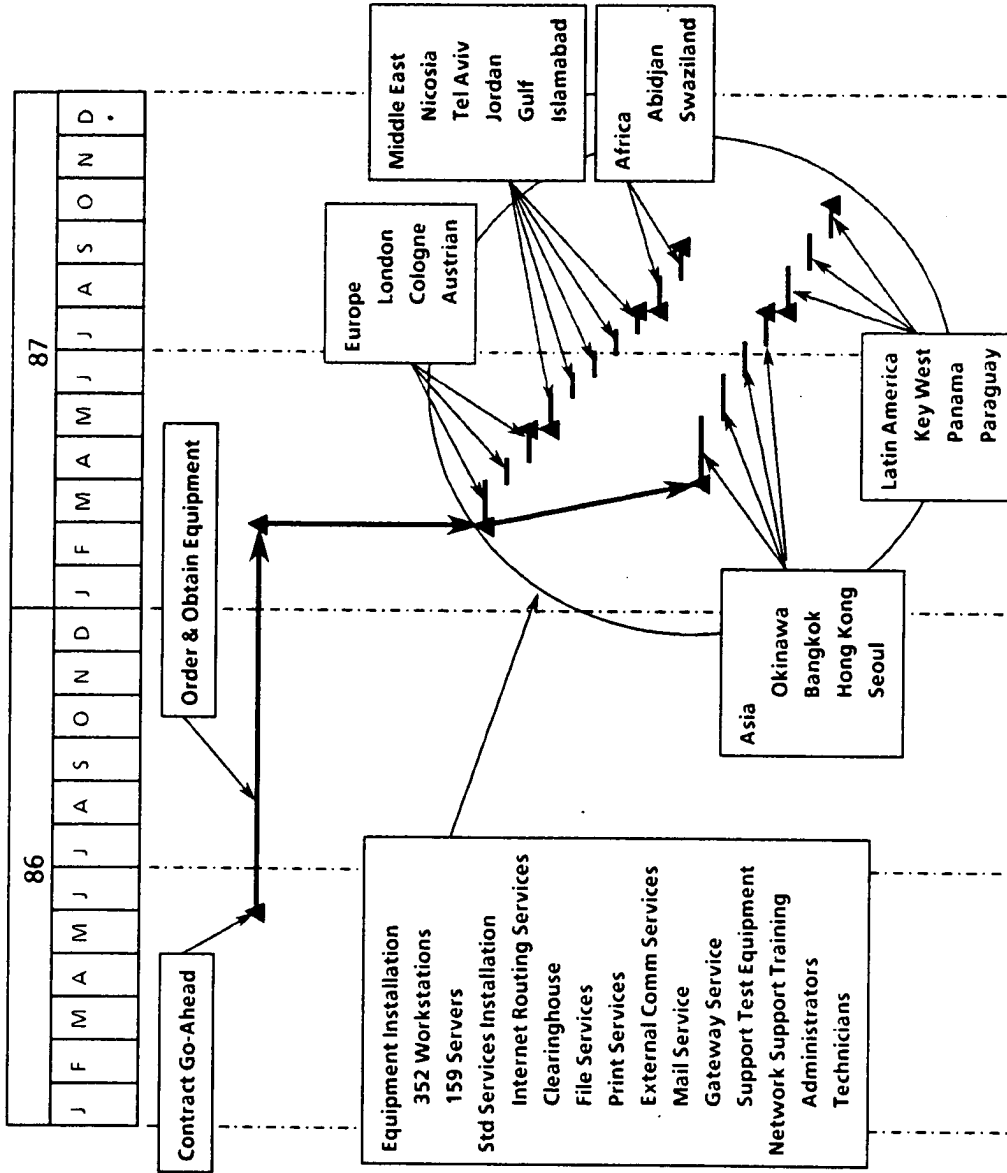
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BUREAU MODERNIZATION System Activities



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BUREAU MODERNIZATION Systems Installation



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SUMMARY COST DATA

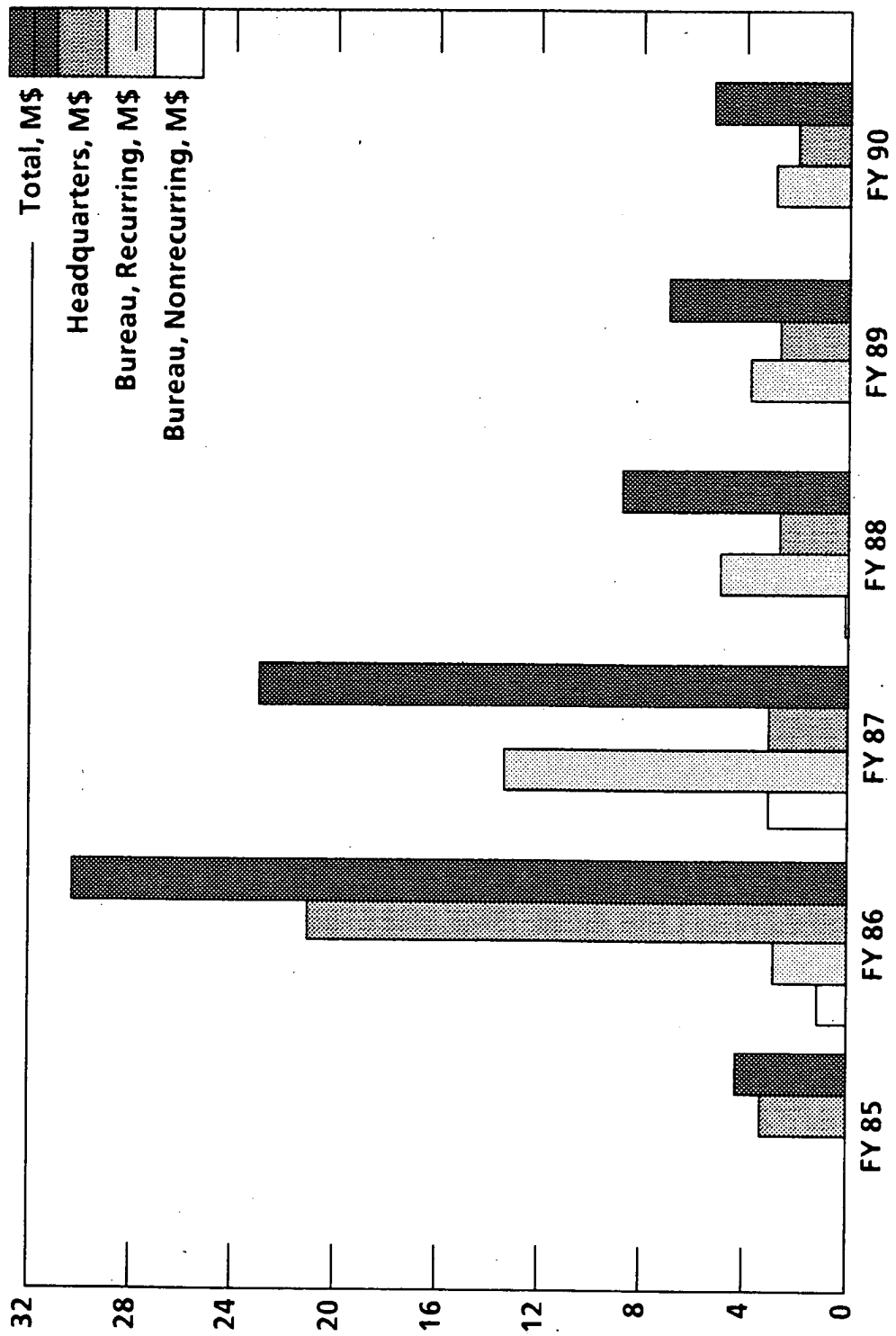
indicates increase

WBS DESCRIPTION	YEAR (AFTER RECEIPT OF ORDER)						Dollars in MILLIONS	TOTAL PRICE PER GROUPED 10/31/84 SUMMARY	TOTAL PRICE PER 10/31/84 PRICE	12/31/84 -HIGHER/LOWER THAN 10/31/84
	1	2	3	4	5	6				
A PROGRAM MGMT	1.741	1.741	.871				4.353	3.648	- .705	
BA SYSTEM ENGINEERING--HQ	.786	.786					1.571			
BB SYSTEM ENGINEERING--FIELD	.769	.769	.382				1.150			
BC SYSTEM ENGINEERING--SYSTEM	.466	.466	.233				1.165	5.207	1.320	
CA HARDWARE--HEADQUARTERS	8.290	7.255					15.545			
CB HARDWARE--FIELD BUREAU	9.117	5.309					14.426	34.854	4.883	
DA SOFTWARE--HEADQUARTERS	1.778	1.363					3.141			
DB SOFTWARE--FIELD BUREAU	.950	.950					.950	9.196	5.106	
EA INTEG & TEST--HEADQUARTERS	2.115	.502					2.617	2.313	-2.334	
EB INTEG & TEST--FIELD BUREAU	1.528	.502					2.030			
FA TRAINING--HEADQUARTERS	.877	.585					1.462	2.352	- .572	
FB TRAINING--FIELD BUREAU	.877	.585					1.462			
GA INSTALL--HEADQUARTERS	.503	.383					.886			
GB INSTALL--FIELD BUREAU	.628	.628					1.257	3.847	1.704	
HA TEST BED--HARDWARE	.453	.302					.756			
HB TEST BED--SOFTWARE	.302	.227					.529			
HC TEST BED--SUPPORT	.453	.302					.756	2.040	-1.133	
I TRAVEL SUMMARY	.429	1.195	1.248	.479	.479		3.830	1.807	-2.023	
LESS MAINTENANCE TRAVEL	-.008	-.016	-.479	-.479	-.479		-1.460	-1.460	1.460	
SUB-TOTAL	18.185	28.960	9.279				56.425	64.130	7.705	
KA MAINTENANCE--HEADQUARTERS	1.127	2.693	2.693	2.693	2.693		11.900	11.900	-11.900	
KB MAINTENANCE--FIELD BUREAU	1.530	3.817	3.817	3.817	3.817		13.082	13.082	-13.082	
PLUS MAINTENANCE TRAVEL	.008	.016	.479	.479	.479		1.460	1.460	-1.460	
SUB-TOTAL	1.135	4.339	6.989	6.989	6.989		26.442	26.442	-26.442	
TOTAL PRICE	19.320	33.300	16.269	6.989	6.989		82.867	64.130	-18.737	

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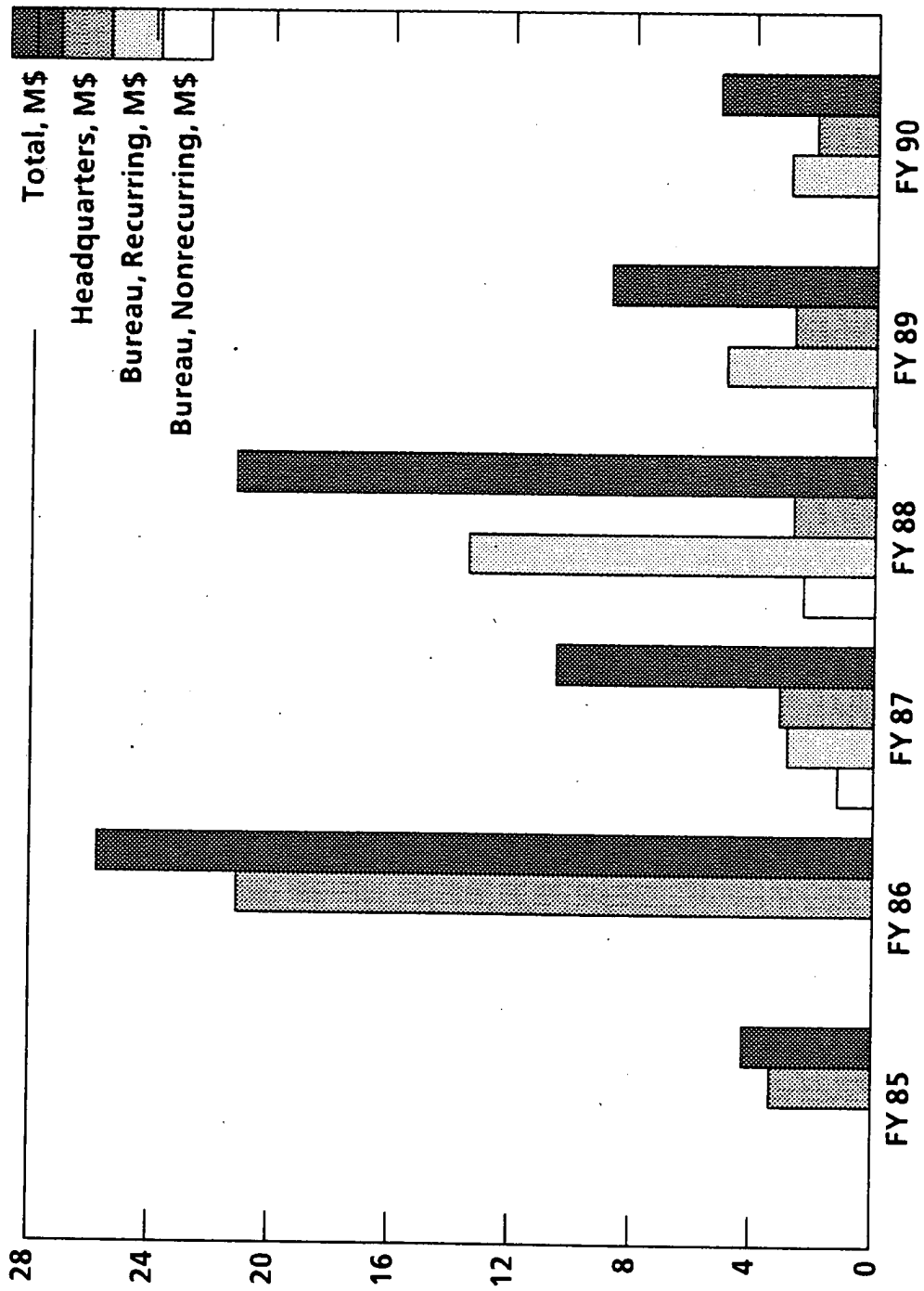
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COST PROFILE 1: JUNE 1986 BUREAU START



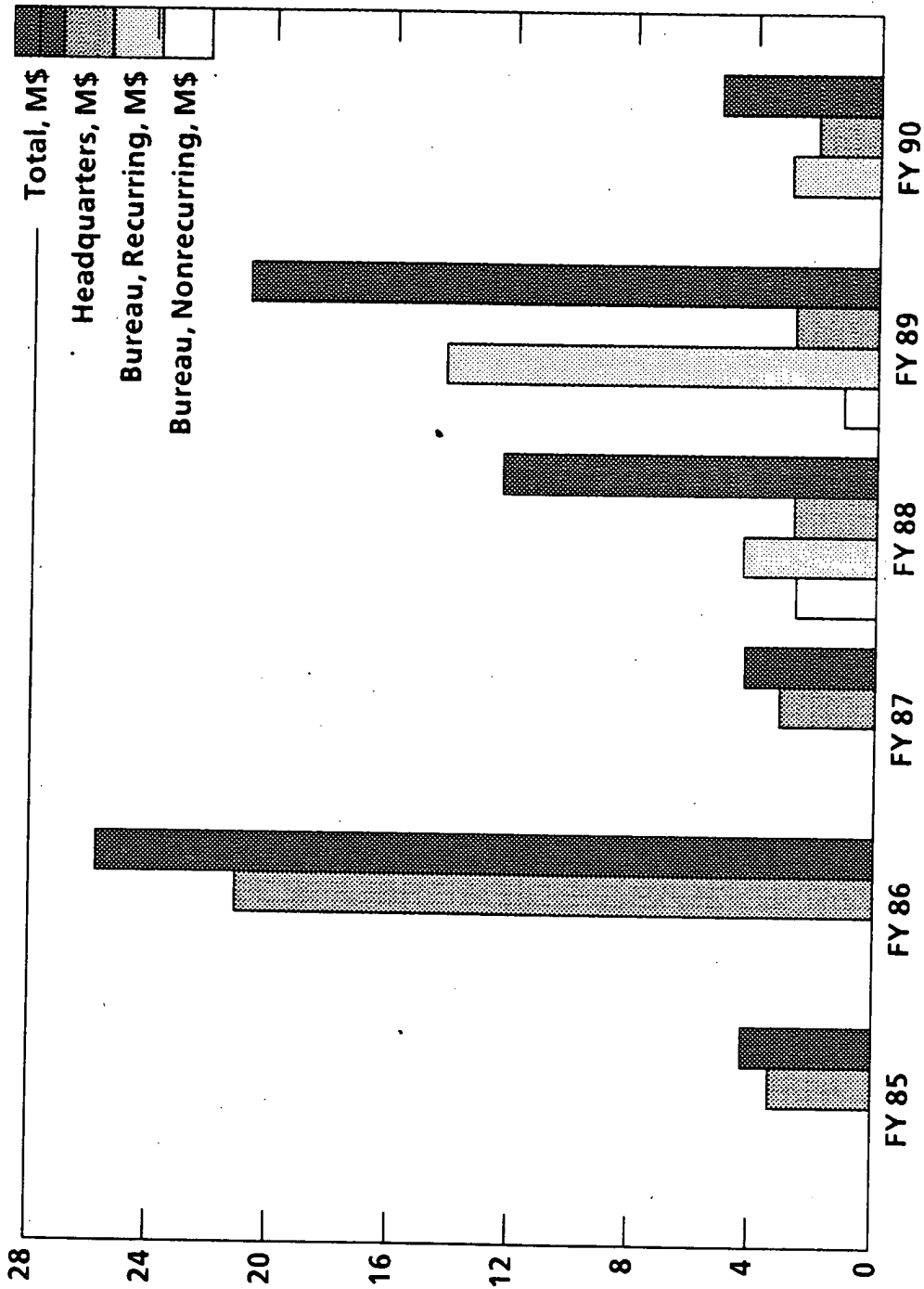
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COST PROFILE 2: JUNE 1987 BUREAU START



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COST PROFILE 3: MARCH 1988 BUREAU START



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