COMPUTING RESOURCES AT KANSAS STATE UNIVERSITY

Computing resources at K-State include the University Computing Center, the Computing Laboratory, the University Data Processing Center, remote terminal processing to the facilities of the University of Kansas, and mini-computers located within the Departments of Electrical Engineering, Physics, and Chemistry. Almost from their date of conception, computers have been integral to the applied sciences teaching and research at K-State. Digital computer capabilities have been available at the University since March 1956. The University Computing Center was established in 1957 with an IBM 650 computer. The University's computing facilities have kept pace with the dynamic capabilities of the computing industry.

The Computing Center

The Computing Center is a service department of the University for the support of the research and instructional needs of the faculty, staff and students. The principal facility is an IBM 370/158 with one megabyte of main core and 500 megabytes of associated direct access storage. Users can access the computer through a combination of batch service, local terminal and several remote typewriter and card reading terminals. The facilities are shown in the schematic diagram on page 13.

Operating systems include:

OS/MFT   DOS   VM/370

Interactive systems

APL   CAL   CMS   Coursewriter III

Languages

ALGOL-60	LISP 1.5	SPITBOL
BAL	PL/1	WATBOL
COBOL	PL/C	WATFIV
FORTRAN	SNOBOL4	

Applications

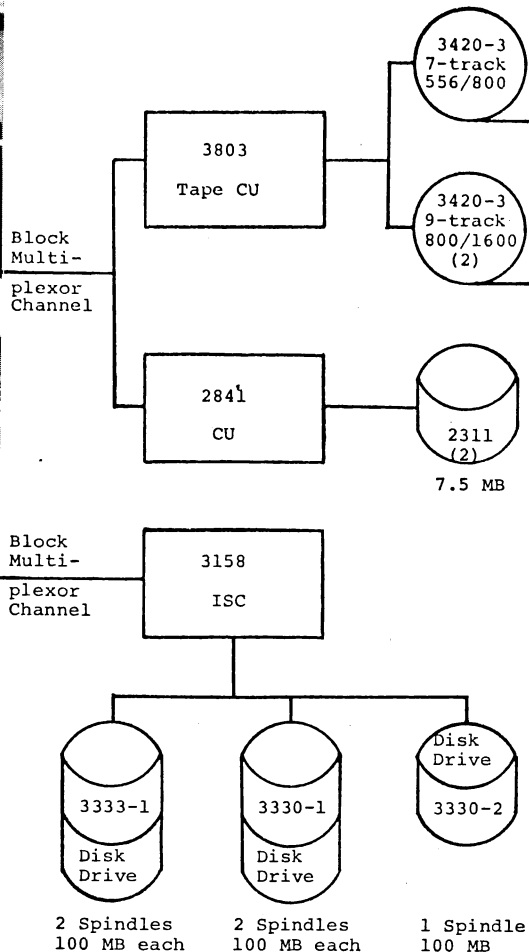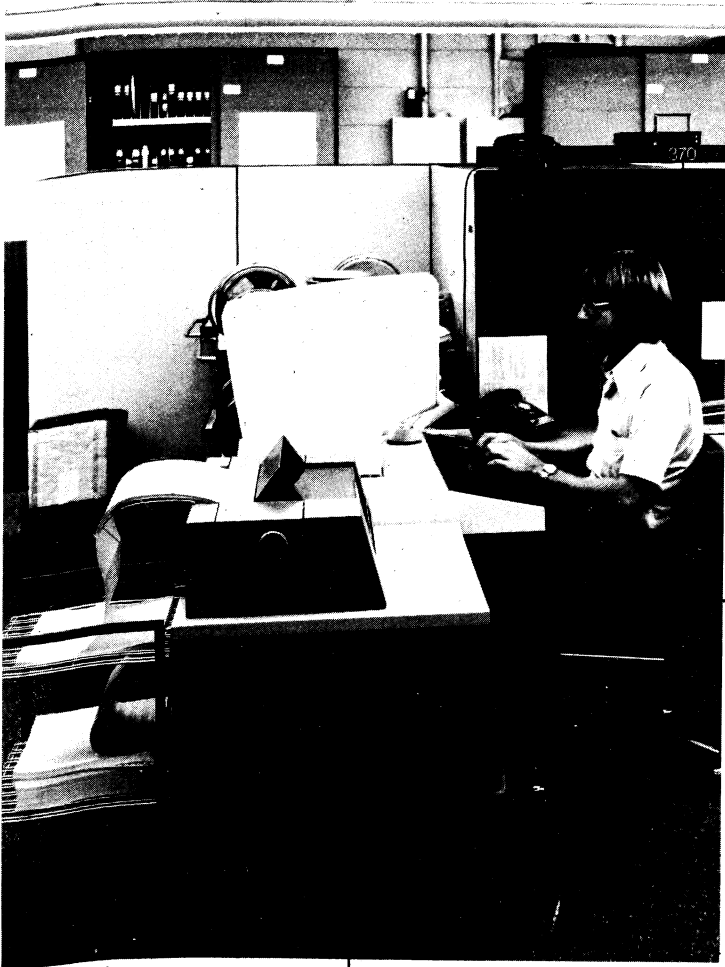|		
		PMS/360
BMD	GPSS	SPSS
CSMP	MPS/360	
FORMAC	NEATER2	

The Computing Laboratory

The Computing Laboratory is a facility of the Department of Computer Science and supports research and instructional requirements. The principal facilities of the Lab are three mini-computers. The three computers can operate individually, in a network, and in a link to the IBM 370/158 in the Computing Center. The facility permits the investigation and teaching of computer network techniques and the teaching and investigation of computer software in a relatively inexpensive but highly capable hardware environment. The hardware includes:
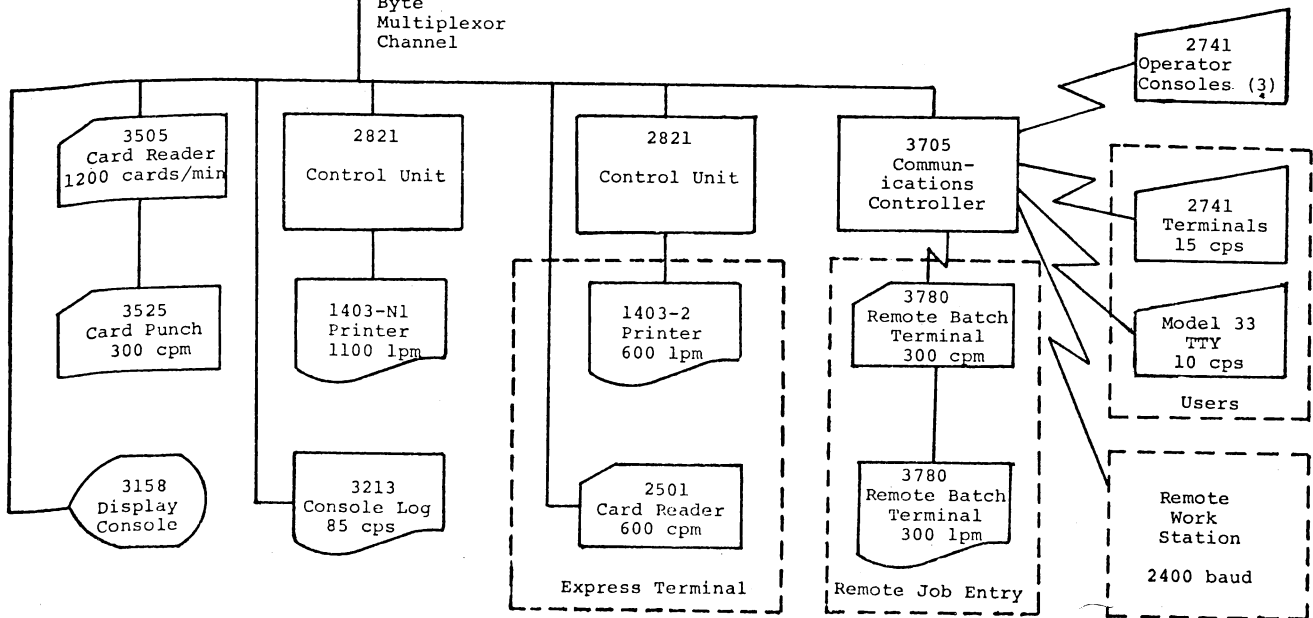
1 NOVA 2/10 with 64K bytes
1 Interdata 85 with 32K bytes
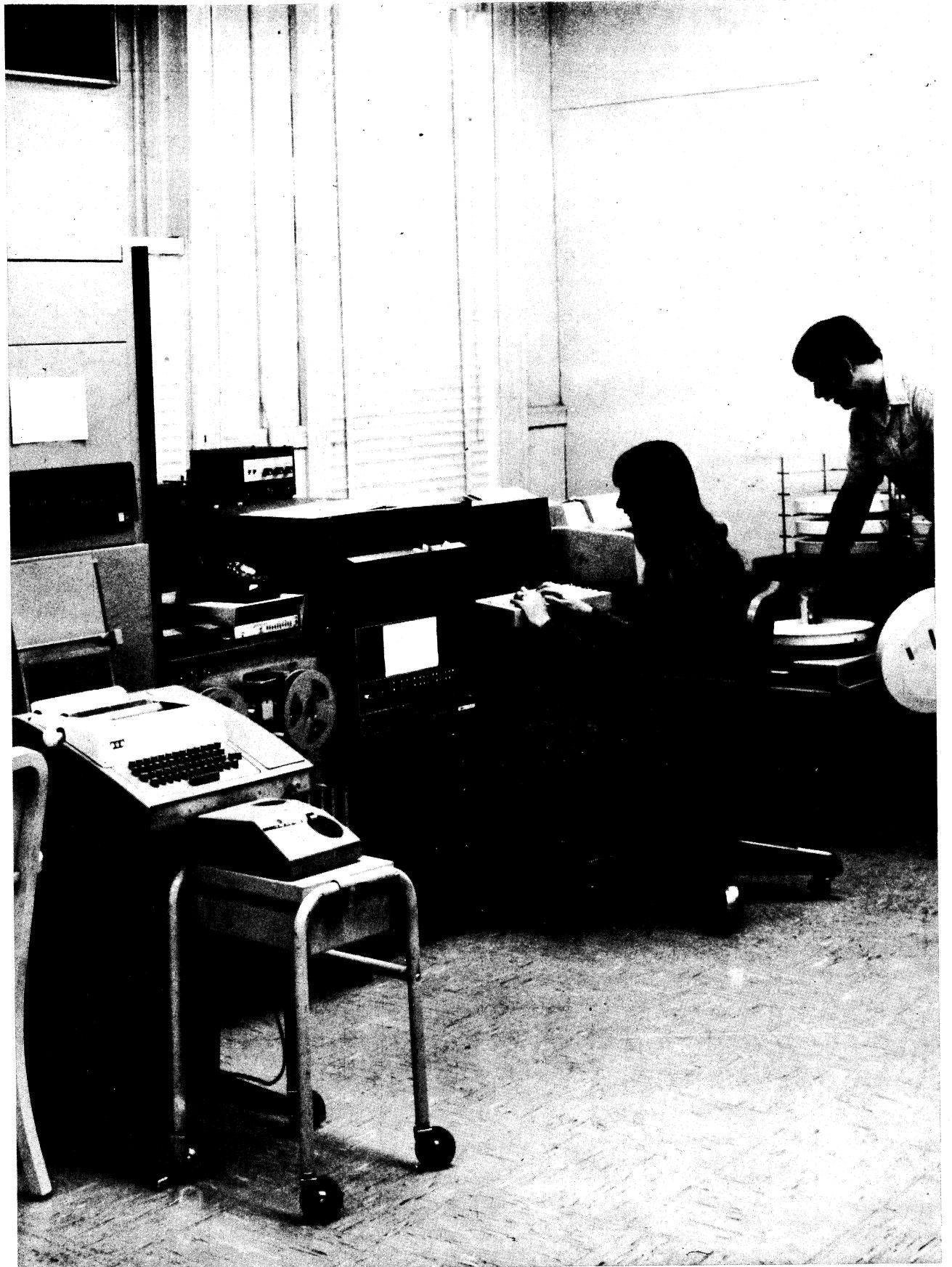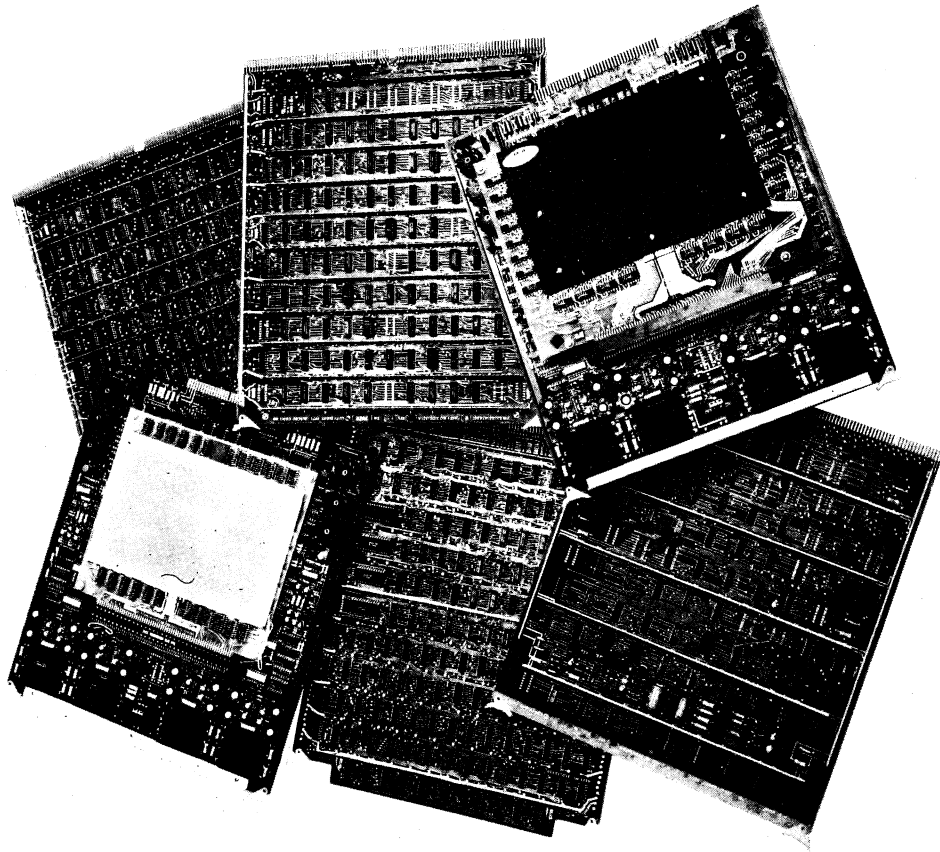1 Interdata 8/32 with 256K bytes
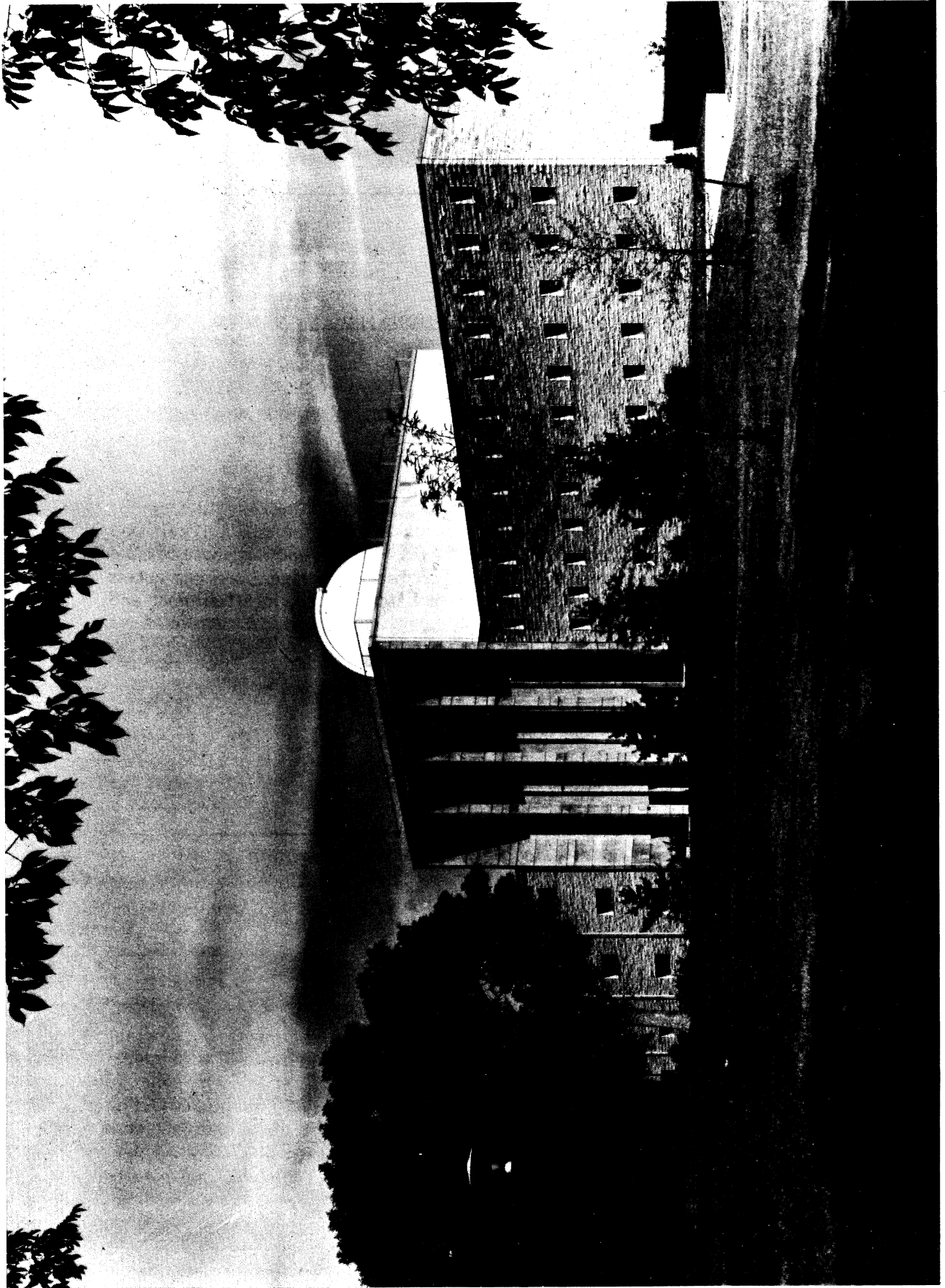
The following diagram gives the current configuration of the Center's IBM S/370 Model 158.

Block Multi-plexor Channel

3803
Tape CU

3420-3
7-track
556/800

3420-3
9-track
800/1600
(2)

2841
CU

2311
(2)

7.5 MB

Block Multi-plexor Channel

3158
ISC

3333-1
Disk Drive

3330-1
Disk Drive

Disk Drive
3330-2

2 Spindles
100 MB each

2 Spindles
100 MB each

1 Spindle
100 MB

Byte Multiplexor Channel

3505
Card Reader
1200 cards/min

2821
Control Unit

2821
Control Unit

3705
Commun-ications
Controller

2741
Operator
Consoles (3)

3525
Card Punch
300 cpm

1403-N1
Printer
1100 lpm

1403-2
Printer
600 lpm

3780
Remote Batch
Terminal
300 cpm

2741
Terminals
15 cps

3158
Display
Console

3213
Console Log
85 cps

2501
Card Reader
600 cpm

3780
Remote Batch
Terminal
300 lpm

Model 33
TTY
10 cps

Users

Express Terminal

Remote Job Entry

Remote
Work
Station

2400 baud

13

Peripheral equipment includes:
    1 Computek 300 GT graphics terminal
    2 teletypes
    1 tapedrive
    2 (IBM 2741 equivalent) typewriters
    4 disks
    2 CRT terminals
    4 microprocessors
Software
    For NOVA: DOS, RDOS, FORTRAN, Assembler, Editor, Macroprocessor and
COBOL
    For Interdata, BOS, DOS, OS/16(32)-MT, FORTRAN, BASIC, COBOL
    An experimental type network is shown at the schematic on page 16.