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
BMD   GPSS   PMS/360
CSMP   MPS/360   SPSS
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.
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.