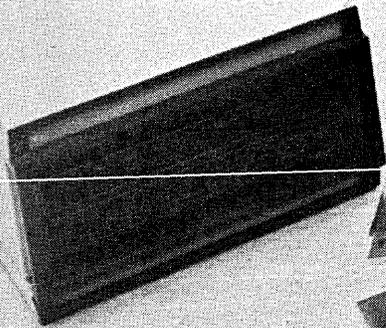


Announcing System IV/70
the data-base access system of the 70's

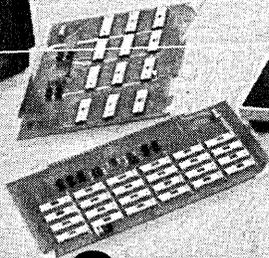


if:



1

You could put the computing power of a System 360/30 in a box this size,



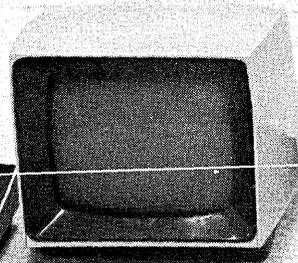
2

and could put the whole 75,000-component CPU on one card, then give it the first *all-semiconductor* main-frame memory,



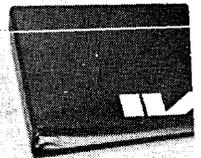
3

and be able to talk to it on up to 32 keyboards at the same time,



4

and have it talk right back on up to 32 video displays at one time,



5

and give it foreground terminal software in addition to disc and IBM-compatible communications packages,

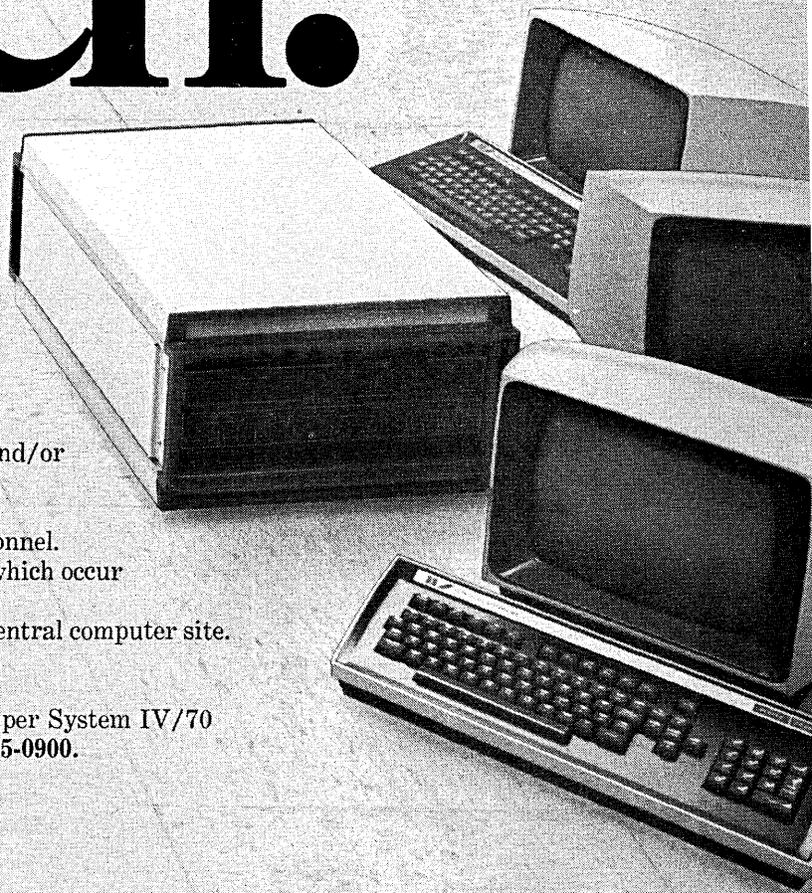
then:

You'd have System IV/70—the data-base access system of the 70's □ System IV/70 solves the data flow problem between the user and the computer. By integrating a computer with a cluster of video terminals, System IV/70 provides a more effective man/machine interface. □ Up to 32 System IV/70 video terminals are controlled by the IV/70 local computer which guides the user through the data entry steps, pre-processes and formats the data, stores it on disc for local use and/or transmits it directly to the central data base.

This cluster concept means:

- Increased output with fewer data-entry personnel.
- A reduction in the number of human errors which occur during normal multiple-step entry.
- Reduced connect and processing time at the central computer site.
- More efficient data transmission.
- Local format storage.

The result is cost reduction. The purchase price per System IV/70 terminal is \$980! Our phone number is (408) 255-0900.



specs.

System Description

System IV/70 is a display processing system designed for *data entry and retrieval* to and from data bases and computer systems. A maximum of 32 video displays may be connected to, and controlled by, a System IV/70 computer which, in turn, communicates with the central computer facility. System IV/70 interfaces with IBM 360/370 systems locally or remotely — and with unmodified IBM software through a System IV/70 foreground communications package. A subset of this package completely simulates an IBM 2848/2260 data station complex.

During normal System IV/70 operation, display and communication operating overhead is only 10 to 20%, leaving 80 to 90% of the System IV/70's time available for user background programs such as data validation, error checking, formatting and local processing and storage before transmission to the main computer.

Video Terminal (Standard Features)

Characters per screen: 1152.

Screen Format: 40, 48, 80 or 81 characters per line; 6, 12 or 24 lines per screen.

Edit Capability: Character insert and delete, line insert and delete, roll up/down, tab, erase, and 10 cursor control functions.

Format Capability: Split screen and protected display areas for "fill in the blanks" data entry, and selected transmission.

Suppressed Display: 1 to 15 character suppression for entry of confidential information or restricted access.

System IV/70 Computer

Memory: 1.9 μ s cycle-time, semiconductor main-frame memory expandable to 96K bytes.

Speed: Character move, 2.5 μ s/byte
Character compare, 3.8 μ s/byte
Decimal Add/Subtract, 5.1 μ s/byte
Binary Add/Subtract, 15.2 μ s/24 bits

Instruction Set: 120 major instructions including variable length byte instructions, binary fixed and floating point arithmetic, translate/test, push/pull stacks, register to register, and list processing instructions.

Input/Output: 8 I/O channels; 64 devices/channel; 8 levels of nested hardware priority interrupt (standard); single firmware I/O interrupt instruction; maximum I/O rate 265,000 bytes/second.

Peripherals

Fixed and moving-head disc drives, asynchronous and synchronous communications interfaces, IBM compatible magnetic tape drives, high speed printers, card readers and paper tape reader and punch.

Software

Foreground video-display control packages including a 2848/2260 simulator package, terminal communications software compatible with IBM OS/DOS (BTAM and QTAM), disc operating system with sort routines, and basic operational software.

General

The System IV/70 may be configured for a variety of applications. A combination of sixteen \$980 terminals and a 6K CPU results in an average per-terminal purchase price of \$1450. A complete 32-terminal system with 24K CPU, disc drive, communications interface and printer would cost \$1950 per terminal.