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One to six Control Data 160 Computers act as independent "satellite" data processing centers, or work in conjunction with the Control Data 1604 Computer.



New Satellite Computer System

From the computer industry's most experienced engineers comes a concept which can save your company millions of dollars in computer cost and manpower

THE SATELLITE COMPUTER SYSTEM is a new and ultra-powerful computing concept which permits you to operate data processing centers with *maximum efficiency and economy*. The system employs the two most versatile all-transistorized computers in use today: Control Data's large-scale 1604 Computer and the desk size 160 Computer. In the Satellite Computer System, the desk size 160's are used in small, independently operated data processing centers that have direct access to the large-scale 1604 Computer.

For example, your company's accounting department, engineering departments, and statistical departments can each operate a 160 in its own center and direct its own data processing activities. In addition, each center has *direct access at any time* to the tremendous speeds and computing capacity of the large-scale 1604. The 1604 has such large capabilities and great speeds that it can accept data from several such centers while simultaneously processing vast amounts of other data.

Therefore, the small data processing center, operating within the framework of the larger center by utilizing the 1604 Computer, can realize a new magnitude of data processing and computing power.

The Satellite Computer System provides the flexibility to process *every type of problem efficiently and economically*—from the very largest scientific and business data processing problems to small scale calculations and routine data processing activities. The system

can be installed in its entirety, or built up computer by computer according to your needs. **YOUR TECHNICAL STAFF WILL WANT TO KNOW** that the Satellite Computer System provides for the *direct transfer of data* between the 1604 and the 160 without hooking up "black boxes." At any time, the 160 can interrupt the 1604 and transmit data to the large computer at the rate of 160,000 characters per second; data can be transmitted from the 1604 to the 160 at the same rate.

Data can also be transferred from the 1604 to a magnetic tape unit which is directly available to the 160 (or vice versa). The 160 can accept this data from the *same* tape reel on the *same* tape drive used to transmit data to and from the 1604, thus eliminating the necessity of changing tape reels between computers.

YOUR PROGRAMMING STAFF WILL WANT TO KNOW that the all-transistorized 1604 holds up to 65,500 instructions in its magnetic core memory of 32,768 words. It also has a 48-bit word length and performs an addition in 1.2 millionths of a second.

The 160's are fast and versatile desk size computers—all-transistorized with magnetic core memories. The 160's execute 60,000 instructions in one second, perform additions in 12.8 millionths of a second.

In the system both the 1604 and the 160 process data on-line to standard peripheral devices: punched card units, line printers, paper tape units, and magnetic tape units. For complete information, write or call:



CONTROL DATA CORPORATION

501 PARK AVENUE • MINNEAPOLIS 15, MINN. • FEderal 9-0411

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