A MICROCOMPUTER INTERFACE FOR TRANSFER OF DATA BETWEEN MULTIPLE COMPUTER SYSTEMS

B. L. Smith
Manager, Data Processing Engineering and Maintenance
Vandenberg Air Force Base, California

ABSTRACT

An interface was required for transmitting telemetered inertial guidance data from any one of twelve SEL 32/55 computers to an IBM 360-65 and a CDC 3300 computer. A flexible interface was designed to meet this requirement. The interface is comprised of several nested microcomputer systems and a fiber optic data transmission system for accomplishing the control and data transmission functions. A unique approach was used to transmit the data asynchronously and make it appear to be synchronous at the response of the computers receiving the data. A description of the approach and system operation will be discussed.