



I.C.T 1900 SERIES

REAL-TIME CLOCK PROGRAM TIMER 1996

DESCRIPTION

The 1996 Program Timer and Real-Time Clock is an optional feature which is available for the larger central processors in the 1900 series.

Program Timer

The program timer consists of a register mounted in the processor cabinet which is incremented once per micro-second, and has a counting capacity of about two seconds. The Executive program sets the timer to zero whenever an ordinary program is entered, and accumulates the value that is in the timer when the program is interrupted. The timer automatically causes a program interrupt whenever it has counted up to half of its maximum capacity. It does not count while the Executive program is operating, or while the processor is in a hesitation cycle for a data transfer on a peripheral device.

When a program is deleted the total time accumulated for it is printed on the operator's typewriter. The accumulated time will include allowances added by Executive for peripheral transfers and other Executive operations requested by the program.

The program timer feature is available without the real-time clock feature if desired.

Real-Time Clock

The real-time clock is a digital clock, which provides local civil time in hours, minutes and seconds. When this feature is provided Executive will incorporate the local civil time at appropriate points in the processor operating log which is produced on the operator's typewriter. In addition, ordinary programs may request to be informed of the time.

The digital clock is mounted in the processor cabinet and operates in conjunction with the program timer. If desired, an illuminated digital display of the local civil time can be provided for the operator's desk.

This specification is subject to modification

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