

4004/4040 SIMULATOR

FEATURES:

Simulates all 4004/4040 Machine Instructions.

Accepts Output from MAC40, the Intel® 4004/4040 Cross Assembler.

Contains Extensive Symbolic Debugging Capabilities.

Written in ANSI Standard FORTRAN IV.

Instantly Available on Worldwide Timesharing Services.

COMMAND CAPABILITIES:

Set Breakpoints.

Trace Program Execution.

Dump and Modify Memory.

Examine and Modify Registers.

Examine and Set I/O Ports.

Simulate the 4040 Hardware Interrupt.

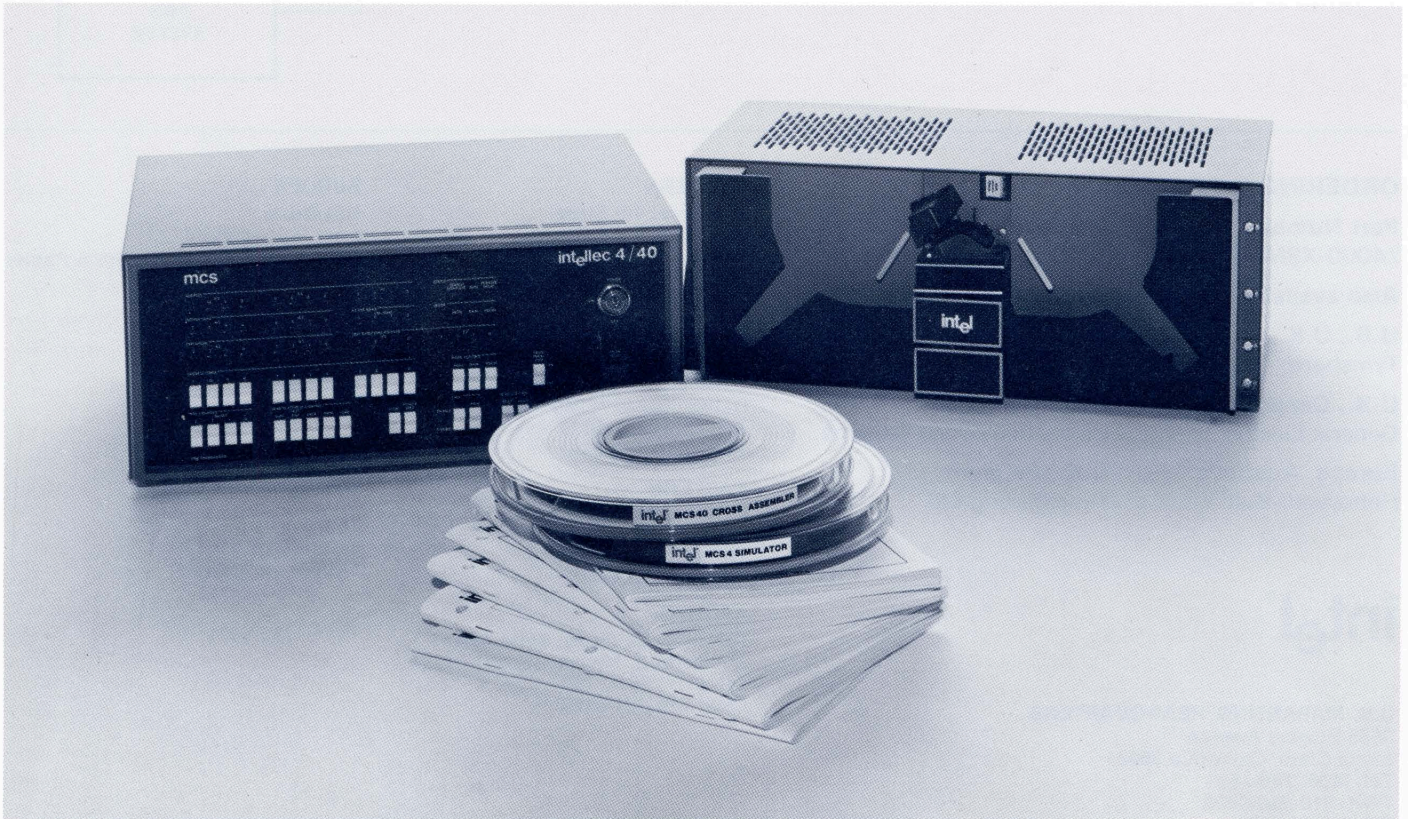
Measure Program Execution Time.

The 4004/4040 Simulator, INTERP/40, is a complete simulation and debug program for the Intel® 4004 and 4040 microcomputers. Programs can be run, displayed, stopped, and altered allowing step by step refinement without continuous reassembly of the source program. INTERP/40 provides powerful commands to control the execution of 4004 and 4040 programs. Extensive debug features are built in to help reduce the time and cost involved in program checkout.

INTERP/40 is written in FORTRAN IV and is designed to run on most large scale computer systems with a 32-bit or larger integer format (word size). It is also available for immediate use on major timesharing services throughout the world.

INTERP/40 simulates execution of the entire set of machine instructions which run on the 4004 and 4040 microprocessors. Object code files produced by the Intel® 4004/4040 cross assembler may be loaded directly into INTERP/40 for simulation and checkout.

INTERP/40 also provides symbolic reference to storage locations and operation codes as well as numeric reference in various number bases.



SPECIFICATIONS

CAPABILITIES:

Provides total software simulation of the Intel® 4004 and 4040 CPU's.

Can be run in batch or interactive mode.

OPERATIONAL ENVIRONMENT:

Hardware required

- 32-bit or larger word size
- 12-15K words of memory, depending on machine

Software required

- FORTRAN IV compiler

SHIPPING MEDIA:

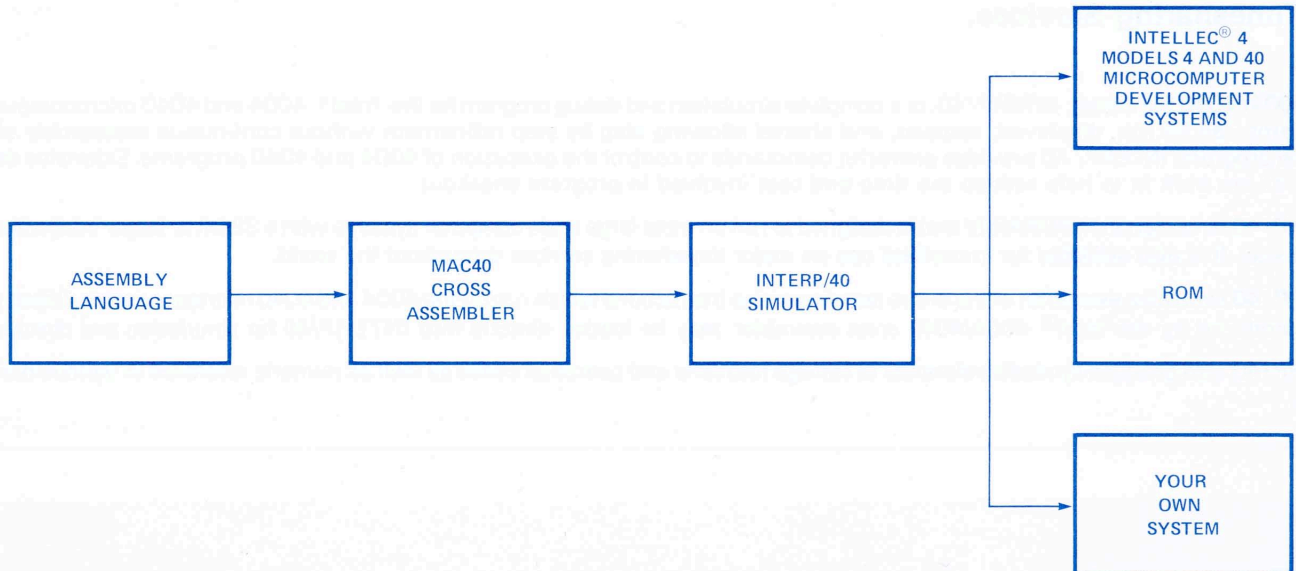
Magnetic tape

TAPE FORMAT:

- 9-track 80-byte unblocked
- EBCDIC records
- 800BPI Unlabeled

TAPE CONTENTS:

- 4004/4040 Simulator (FORTRAN IV Source)
- MERGE Source File Editing Program (FORTRAN IV Source)



ORDERING INFORMATION:

Part Number	Description
Z4000-XSM-FTR	4040/4004 Simulator

Also available on these timesharing services:

U.S., U.K., France Tymshare	Japan Dentsu
U.S., Canada General Electric	U.S. United Computing Systems
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