

Linker

The Linker allows large programs to be written as small modules, then combined into an executable program. The Linker accepts T.I. relocatable code, allowing the user to move programs developed on the M9900 CPU to Texas Instruments minicomputers.

... and more

Also included with the M9900 CPU are an instruction trace debug utility, debug monitor, processor, memory, and disc diagnostics, PROM programming utility, disc utility, and more.

SOFTWARE OPTIONS

The following software packages complement the basic M9900 CPU system by adding capabilities desired for specific applications. All these packages are fully integrated into the system, and can interchange files with all other M9900 software.

Pascal

Marinchip Systems supplies the Sequential Pascal compiler originally developed by Per Brinch Hansen for the PDP-11, converted to the M9900 CPU by Marinchip Systems. This Pascal allows very large programs to be compiled and permits Pascal programs to read and write any system file, sequential or random.

META

The META compiler-writing language has been implemented on the M9900 CPU by Marinchip Systems. META is a language designed expressly for the implementation of compilers and macro processor and reduces the job of compiler implementation from months to days. Source code is included with META to allow user modification.

System Generation Kit

The System Generation Kit allows the user to build the Disc Executive, configuring the system for any memory size or complement of peripherals. User-written device drivers can be added. The kit includes source code for the standard Marinchip device drivers for user modification or as an example.

HARDWARE OPTIONS

PROM/RAM Board

The Marinchip PROM/RAM/SIO/RTC board provides up to 10K of PROM, 1K of RAM, a serial I/O port, and real-time clock on a single board. It comes complete with debug monitor and disc boot in PROM, and makes the job of bringing up an M9900 system easy. The board operates in 16 bit mode, making the most of the 16 bit CPU, and can hold up to 8K of user PROM for user-written high performance code.

NETWORK OPERATING SYSTEM

The M9900's Network Operating System is a system without limits - designed to grow as computer hardware evolves, without forcing you to change programs every time you change the hardware. The system provides byte addressable files up to four billion bytes in length, complete dynamic allocation and release, random/sequential access and linked directories for complex file structures. The system automatically pages file data to memory to optimize performance. All I/O devices are treated as files, eliminating device-dependent code in applications.

EXTENDED COMMERCIAL BASIC

The M9900 Extended Commercial Basic gives you 16 digit accuracy, PRINT USING, random and sequential files, CHAIN with common variables and a choice of interpretive execution for debugging or compilation for production. If you already have applications in BASIC, you'll be glad to know that the M9900's BASIC is similar enough to the most popular 8 bit BASIC that conversion won't be a chore.

APPLICATIONS

If you are interested in applications you can really use, you'll find the M9900 Word processor, Payroll, Accounts Payable and Receivable and General Ledger to be flexible, easily maintained and ready to use when you plug the system in.

The Marinchip Systems List of Difficult Questions
to Ask Vendors of Powerful Small Computers

1. Do you maintain your own operating system? If not, who do I call when I have a question or problem?
2. Do you maintain your own BASIC? If not, who do I call when I have a question or problem?
3. Do you maintain your own Pascal? If not, who do I call when I have a question or problem?
4. Do you maintain (or even sell) your own Word Processor? If not, who do I buy it from, and how do I get support for it?
5. Do you maintain (or even sell) your own business application packages? If not, where do I get them, how do I know they will work on your machine, and who supports them?
6. What do I do when I have a problem and I'm not sure whether it's the hardware, the operating system, the BASIC, or in one of the applications?
7. Can I interchange files between BASIC, Pascal, the text editor, the Word Processor, and the operating system? If not, what are the restrictions?
8. Exactly how much do I have to pay to get a system that does all the things your advertisement says it does? Can I buy all those things from you? If not, who sells them?
9. Do you include hardware diagnostics with your system? If not, how do I know it's working correctly?
10. Do you publish a list of hardware made by other vendors that is known to be compatible with your machine? If not, how do I find out about a board I'm planning to buy?
11. Does your CPU have hardware for 16 bit add, subtract, multiply, and divide?
12. Do you provide floating point subroutines for assembly language? Do they offer both single and double precision? Do they use IBM format?
13. Does your system read and write industry-standard IBM 8" diskettes?
14. Can your machine use 16 bit parallel memories on the S-100 bus to double performance? Can I mix them with existing 8 bit memories?
15. Does your software support fixed and removable storage module hard discs? Can I choose and mix sizes from 10 to 40 megabytes? Do I have to change my programs when I go from a floppy to a hard disc and back?
16. Is your processor a member of an instruction-compatible family that includes single chip computers, 8- and 16-bit bus machines, and a high-speed TTL minicomputer with extended addressing?

