MOTOROLA Semiconductors

Advance Information

EXORciser
RESIDENT EDITOR
and
RESIDENT ASSEMBLER

EXORciser

M6800 RESIDENT SOFTWARE

The optional M6800 Resident Software, along with the M6800 EXORciser's EXbug Firmware, allows the EXORciser user to develop his system software in real-time with his peripheral devices incorporated into the system. This means that the user can prepare, assemble, and debug his system software in its actual working environment. The M6800 Resident Editor and Assembler are used to prepare and assemble the user's system software, while the EXORciser's EXbug Firmware is used to debug the system hardware as well as the software.

M6800 RESIDENT EDITOR

The M6800 Resident Editor may be used to create or modify alphanumeric text. In particular, the Editor gives the user an easy means to create and modify source programs for input into the M6800 Resident Assembler. This interactive Editor offers character, line, and character string commands.

- Memory Sizing Capability
- Insert or Delete Lines
- Insert, Delete or Modify Character Strings
- Command Chaining
- Co-Resident with the M6800 Assembler or Stand Alone

M6800 RESIDENT ASSEMBLER

The M6800 Resident Assembler may be used with the M6800 EXORciser to translate M6800 Source Programs to machine language. This assembler is a two-pass assembler; that is, the Resident Assembler reads a user's program twice — once to build a symbol table and a second time to produce the assembled output. Only pass two of the assembler is needed with programs having no forward references and with short programs. In the case of short programs, the forward references will be flagged with an error and the user is required to patch in the correct addresses after the symbol table is printed at the completion of the assembly. The Resident Assembler is compatible with the Cross Assemblers available from Motorola.

- Two-Pass Assembler
- Limited One-Pass Capability
- Can Be Co-Resident with the M6800 Resident Editor or Stand Alone
- Compatible with Motorola's Cross Assemblers

EXbug FIRMWARE

The EXbug Firmware is an integral part of the M6800 EXORciser. This firmware allows the user to load the M6800 Resident Assembler and Editor into the EXORciser and to verify that the Resident Software was correctly loaded, and to debug the user's system hardware and software. Also, this Firmware is used to print and/or punch the data stored in the EXORciser memory.

RESIDENT SOFTWARE REQUIREMENTS

- EXORciser
- 8K bytes of RAM minimum
- TTY (20 mA neutral loop current) or RS-232C data terminal with automatic reader/punch control

ORDERING INFORMATION

The user has the option of ordering the Resident Software in a stand-alone package or ordering the software with 8K bytes of memory. The user can also select the media on which he wishes to receive his Resident Software. Table 1 shows the complete range of options, and the Part Number to be used when ordering.

TABLE 1 – M6800 RESIDENT SOFTWARE OPTIONS

Option	Description	Media	Part Number
1	Resident Assembler/Editor (Stand Alone)	Cassette	M68XAE6812A0
2	Resident Assembler/Editor with four 2K Static RAM Modules	Cassette	M68XAE6812A2
3	Resident Assembler/Editor with one 8K Dynamic RAM Module	Cassette	M68XAE6812A8
4	Resident Assembler/Editor (Stand Alone)	Paper Tape	M68XAE6812B0
5	Resident Assembler/Editor with four 2K Static RAM Modules	Paper Tape	M68XAE6812B2
6	Resident Assembler/Editor with one 8K Dynamic RAM Module	Paper Tape	M68XAE6812B8
7	Resident Assembler/Editor (Stand Alone)	G.E. Timeshare	M68XAE6812C0
8	Resident Assembler/Editor with four 2K Static RAM Modules	G.E. Timeshare	M68XAE6812C2
9	Resident Assembler/Editor with one 8K Dynamic RAM Module	G.E. Timeshare	M68XAE6812C8
10	Resident Assembler/Editor (Stand Alone)	Floppy Disk	M68XAE6812D0
11	Resident Assembler/Editor with four 2K Static RAM Modules	Floppy Disk	M68XAE6812D2
12	Resident Assembler/Editor with one 8K Dynamic RAM Module	Floppy Disk	M68XAE6812D8