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CHAPTER 5

D-BUG12 MONITOR AND DEBUGGER

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OBJECTIVES

This chapter describes the resident monitor used on Motorola's M68HC12 evaluation boards (EVBs). The monitor is called *D-Bug12* and it allows you to interact with the EVB from a terminal and to enter and debug programs.

- 5.1 M68HC12 EVB D-Bug12 Monitor**
 - D-Bug12 Monitor Versions**
 - Entering the Monitor**
- 5.2 Monitor Commands**
- 5.3 Monitor Utility Routines**
 - Calling Monitor Routines**
 - Summary of D-Bug12 Routines**
- 5.4 D-Bug12 Monitor Interrupt Vector Initialization**

Table 5-5 Summary of D-Bug12 commands and utility routines

D-Bug12 Command	Function	Monitor Routine	M68HC12A4EVB Ver 1.xxxx Address	M68EVB912B32 Ver 2.xxx Address
ASM	Assemble programs	EraseEE	\$FE1E	\$F69E
BAUD	Set SCI Baud rate	getchar	\$FE02	\$F682
BF	Block fill memory	GetCmdLine	\$FE08	\$F688
BR	Breakpoint set	isalpha	\$FE10	\$F690
BULK	Bulk erase EEPROM	isxdigit	\$FE0C	\$F68C
G	Go run user program	main	\$FE00	\$F680
GT	Go till a breakpoint	out2hex	\$FE16	\$F696
HELP	Help	out4hex	\$FE18	\$F698
LOAD	Load program down to EVB	printf	\$FE06	\$F686
MD	Memory display-byte	putchar	\$FE04	\$F684
MDW	Memory display-word	SetUserVector	\$FE1A	\$F69A
MM	Memory modify-byte	sscanhex	\$FE0A	\$F68A
MMW	Memory modify-word	strcpy	\$FE14	\$F694
MOVE	Move memory	toupper	\$FE0E	\$F68E
NOBR	Clear breakpoint	WriteEEByte	\$FE1C	\$F69C
RD	Register display			
RM	Register modify			
T	Trace program			
UPLOAD	Upload from EVB			
VERIFY	Verify downloaded program			