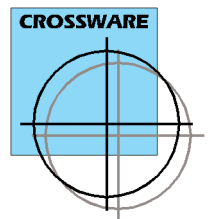


FLT-68K Training Suite for Windows

The FLT-68K Training Suite provides an advanced set of tools specifically targeted at the student writing and debugging software for the FLT-68K Microprocessor Trainer from Flite Electronics. The standard edition is ideally suited to the student learning to program in assembler. The advanced edition includes a sophisticated ANSI C compiler. Both editions include the Crossware Embedded Development Studio and run under Windows 9x, Windows NT 4.0 and Windows 2000.

HIGHLIGHTS

- ❑ Optimising ANSI C compiler and libraries (Advanced Edition only)
- ❑ Relocatable cross assembler, linker and library manager
- ❑ Source level simulator to debug without hardware
- ❑ Source level serial port debugger to debug with FLT-68K Microprocessor Trainer board via the PC serial port
- ❑ EPROM's containing the Crossware debug monitor to replace the existing FLT-68K monitor
- ❑ Embedded Development Studio - a user friendly integrated development environment which eliminates the learning curve for using the tools
- ❑ Manuals in printed and electronic form
- ❑ Secure licence server to simplify multi-user licencing across a LAN
- ❑ Technical support and free updates for 12 months.



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ANSI C compiler (Advanced Edition only)

- Optimising ANSI C compiler with extensions for embedded development
- Pre-written library routines including 32-bit and 64-bit floating point arithmetic
- Complete source level debug output
- Data output for Embedded Development Studio source code browser
- Easy to use support for interrupt functions
- Full support for in-line assembler

Relocatable Assembler

- Motorola standard mnemonics and segment directives
- Motorola standard macros with full argument passing
- Nestable conditional assembly
- Comprehensive range of assembler directives and pseudo ops
- Complex expression evaluation with Motorola standard operators
- Source level debug output

Relocating Linker

- Links relocatable object modules generated by compiler, assembler and library manager
- Arranges and positions relocatable segments at appropriate memory locations. Supports multiple regions, supports precise segment location and ordering
- Finalises the evaluation of incomplete complex expressions
- Produces the final program output in Motorola 'S' records (S28 to suite original FLT-68K monitor) and IEEE695 format (with full debug records for source level simulation and debugging)

Source Level Simulator

- Full source level debugging
- Seamless integration with the Embedded Development Studio
- Dockable windows
- Multiple watch windows to view and edit local and global C and assembler variables
- Views of all memory areas, registers and disassembled program mixed with source code
- Complex heirarchical breakpointing built by drag-and-drop
- State capture to capture and restore the complete internal state of the microprocessor
- Source code profiling
- Code and data coverage analysis
- Multiple cycle counters

Debug Monitor

- Compatible with standard FLT-68K monitor (i.e. same memory footprint, system calls and interrupt jump vectors)
- Interrupt driven communications at 38400 baud
- Supplied pre-programmed into EPROM's to replace standard FLT-68K monitor software (for multi-user packages a pair of EPROM's is supplied for each FLT-68K board)

Source Level Serial Port Debugger

- Full source level debugging
- Execute target program with or without download via the serial port
- Seamless integration with the Embedded Development Studio
- Dockable windows
- Multiple watch windows to view and edit local and global C and assembler variables
- Views of all memory areas, registers and disassembled program mixed with source code
- Complex heirarchical breakpointing built by drag-and-drop
- Preconfigured to operate with Debug Monitor

Embedded Development Studio

- Full multi-threaded, 32-bit development environment seamlessly integrates all Crossware 32-bit tools and utilities
- Dockable windows
- Project tree to access source files and dependency files, and project documentation
- Dependency scanning
- Context coloured editing
- Drives compiler, assembler, linker and library manager
- Maintains start up files allowing you to rapidly change target chips
- Seamlessly integrates simulation and debugging environments
- Integrated source code browser
- Wizard to create initial project setup and startup files
- Integrated viewer for fully compiled electronic manuals with full text search and highlight capability
- User defined commands to run other executables
- Integrated multiple terminal emulators

Printed and on-line manuals

User manuals are provided printed and bound so that you can study the features and facilities available at your leisure and away from your computer, and electronically so that you can rapidly locate topics from within the Embedded Development Studio. (Multi-user packages include a single set of printed manuals.)

Licence Server

- Allocates licences to any PC connected to LAN
- Easy to set-up, protocol independent
- Secure allocation of licences prevents student access to critical licence files
- Allows allocation of priorities to individual and groups of PC's (ensures sufficient licences are available for specific lectures or training sessions)

Technical Support

Both the standard and advanced editions of the FLT-68K Training Suite include technical support and free updates for 12 months.

Host System Requirements

IBM compatible PC with an Intel Pentium or above running under Windows 9x, Windows 2000 or Windows NT4.0.