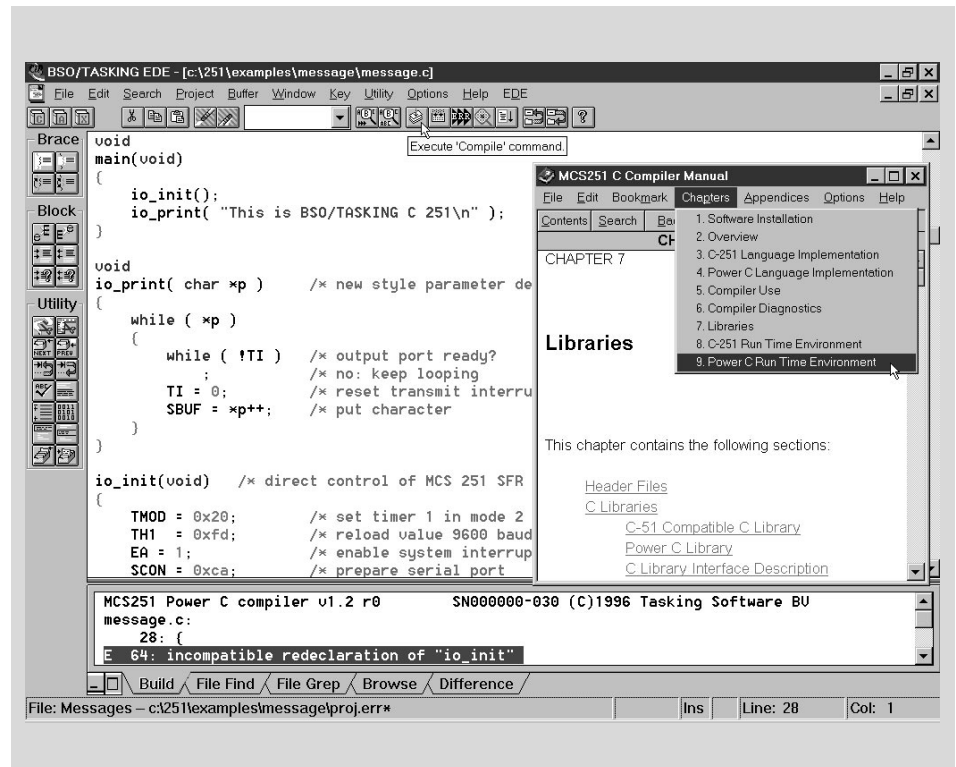


TASKING Power C 251 Compiler

- Windows* Based Embedded Development Environment
- Full ANSI C to Ensure Early Error Detection
- Architecture Specific C Language Extensions
- Extensive Optimizations
- Interrupt Functions in C and In-Line Assembly
- User In-Line C Functions
- IEEE-754 Single and Double Precision Floating Point
- Generates Intel Compatible Assembly
- Complete ANSI-C Libraries in C Source
- Full Intel OMF-251, IEEE-695 and Intel Hex

The compiler package consists of two optimizing ANSI C compilers: the Starter C compiler and the Power C compiler, macro assembler, linker, locator, libraries, CrossView 251 simulator and EDE our Windows based embedded development environment. The Starter compiler is designed for compatibility with C 51 programming models, memory spaces and assembly calling conventions. When using this C compiler you can share C and assembly code between Intel's MCS® 251 microcontroller, MCS® 151 microcontroller and 8051 microcontroller projects and still have a speedup factor of up to 7x.

The Power compiler is designed and built specifically for the MCS 251 architecture: new memory models, other register usage, other assembly calling conventions and a new software floating point implementation. The Power compiler gives you the ultimate performance for your MCS 251 microcontroller project (speedup factor up to 40x!). Both compilers allow your application to run in either source or binary mode and take full advantage of the microcontroller's architecture. This means you can access all the special features of the MCS 251 microcontroller in C without violating the ANSI standard, such as Multiple addressing modes (with full



pointer support), Extended bit memory, Special function registers (I/O ports), Interrupt functions, User in-line C functions (create your own in-line functions) and much more.

The MCS 251 has a linear 16 Mbyte address space which can be accessed with many addressing modes (memory types). You can assign each C variable explicitly to a specific memory type: `_data`, `_bdat`, `_ebdat`, `_idat`, `_pdat`, `_xdat`, `_rom`, `_near`, `_far`, `_huge`. The compiler supports 1, 2 and 4 byte pointers and has very efficient pointer arithmetic and dereferencing. It uses extremely fast parameter passing between functions and automatic variables using 8-, 16- and 32-bit CPU registers.

Third-party support includes interoperability with real time kernels (such as Embedded System Products RTXC251), emulators (such as Ashling, Hitex, Metalink, Nohau) and other tools (Inform FuzzyTECH251, Intel *Ap*BUILDER).

MICROCONTROLLERS SUPPORTED:

80C251SB/SQ, 83C251SA/SB/SP/SQ, 87C251SA/SB/SP/SQ, 82930A (USB)

DEVELOPMENT PLATFORMS:
Windows 3.1, Windows 95, Windows NT, Extended DOS, Sun SPARC/SunOS, Sun SPARC/Solaris, HP9000, DEC Alpha, VAX/VMS

AVAILABILITY:
Now

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Quality Development Tools Worldwide