

WIND RIVER DIAB COMPILER

Boost application performance, reduce memory footprint, and produce high-quality, standards-compliant object code for embedded systems with Wind River® Diab Compiler. It's backed by an award-winning global support organization that draws on twenty-five years of compiler experience and hundreds of millions of successfully deployed devices.

Diab Compiler is a critical tool in environments where conformance to safety standards is a must. Wind River has a long history of providing software and tools for safety critical applications requiring certification in the automotive, medical, avionics, and industrial markets. Diab Compiler has also been used in automotive products validated by TÜV NORD for automotive functional safety.

KEY FEATURES

- **Powerful optimization engine:** The fastest code in the smallest footprint
- **The latest industry standards:** Edison Design Group front end, Dinkumware libraries, ANSI/ISO C and C++ conformance
- **Safety-compliant code:** Code validated by TÜV NORD and proven in safety critical applications up to SIL4
- **One compiler, many architectures:** Support for leading processor architectures
- **Reliable quality:** Tested with millions of test cases and industry standard test suites; POSIX PSE52 conformance
- **Flexible business model:** Perpetual licenses for one architecture or annual per-developer subscription for all architectures
- **Award-winning global support:** Service Capability and Performance (SCP)-certified support
- **Long term support tailored to customers' requirements**

BIG PERFORMANCE. TINY FOOTPRINT.

In the embedded market there is tremendous pressure to pack performance and features into small-memory devices that also consume less power. To help meet these demands, Diab Compiler offers hundreds of optimization options such as global, local, processor-specific, profile-driven, and whole program optimization for fine-tuning of software for performance, footprint, or both.

Use standard global options settings or customize the compiler options for the best results for your application code. With these performance gains, you'll build devices that use less memory and require lower-power processors, reducing the hardware costs of your projects. And each release of Diab Compiler includes new optimizations to unlock further performance and code density improvements. Wind River tests Diab Compiler performance to ensure industry-competitive results using key embedded benchmarking software such as the EEMBC benchmarks suites.

TECHNICAL SPECIFICATIONS

Supported Processor Architectures

- PowerPC
- TriCore
- RH850
- SuperH
- ARM
- ColdFire
- MIPS
- MCORE
- 68k
- Intel
- SPARC

Supported Host Operating Systems

- Windows XP Professional
- Windows Vista
- Windows 7
- Red Hat Enterprise Linux Workstation
- Red Hat Fedora
- Novell SUSE Linux openSUSE
- Novell SUSE Linux Enterprise Desktop
- Ubuntu Desktop
- Sun Solaris

SAFETY-COMPLIANT CODE

In the automotive, avionics, and industrial markets, it is critical that software conform to industry standards for functional safety. In achieving Automotive SPICE (Software Process Improvement and Capability Determination) Level 2 certification Wind River reaffirms its commitment to adhere to the world's best practices in developing high quality software tools for the automotive industry. Diab Compiler has been a reliable code generation tool for avionics products certified for DO-178B, products for the nuclear market certified to IEC 60880, railway applications certified to EN 50128, and industrial products certified to IEC 61508, and is now qualified for use in automotive applications certified to ISO 26262. The Diab Compiler ISO 26262 Qualification Kit aids our customers in qualifying the Diab Compiler to meet the safety standards of ISO 26262.

Diab Compiler is exhaustively tested using both industry-standard test suites and a library of in-house test cases to reduce the risk of vulnerability in your safety critical software. Wind River maintains a unique policy to transparently disclose Diab Compiler issues that might compromise the safety compliance of your project. In these cases you'll work closely with the Wind River award-winning support team to proactively resolve the issue before deploying your product.

WIND RIVER SERVICES AND SUPPORT

Wind River Diab Compiler is backed by the most comprehensive customer support network in the embedded software industry. With six major support centers and 21 additional support hubs worldwide, our local experts can help diagnose problems, provide guidance, and answer basic "How do I...?" questions.

In addition to standard support, Wind River offers Long Term Support services for Diab Compiler customers. Long Term Support lengthens the support window beyond the standard product lifecycle to meet any customer needs that require customized support and maintenance services. In addition, the service provides customized bug fixing and quality assurance to minimize the impact of compiler changes to your code. Contact Wind River Customer Support (www.windriver.com/support) or your account manager for more details.



Wind River is a world leader in embedded software for intelligent connected systems. The company has been pioneering computing inside embedded devices since 1981, and its technology is found in nearly 2 billion products. To learn more, visit Wind River at www.windriver.com.

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Embedded Tools, Ihr langjähriger Partner für alle Wind River Entwicklungswerkzeuge



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