

## WIND RIVER DIAB COMPILER

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### BIG PERFORMANCE. TINY FOOTPRINT.

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 25 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 technology:** 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
- **One compiler, many architectures:** Support for 10 of the leading processor architectures
- **Reliable quality:** Millions of test cases against industry standards; 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

### DIAB COMPILER FOR PERFORMANCE OR FOOTPRINT

In the embedded market there is tremendous pressure to pack performance and features into increasingly small devices that also consume less power. To help you meet these demands, Diab Compiler offers hundreds of optimization options such as global, local, process-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.

## TECHNICAL SPECIFICATIONS

### *Supported Processor Architectures*

- PowerPC
- TriCore
- 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

## DIAB COMPILER FOR SAFETY-COMPLIANT CODE

In the automotive, avionics, and industrial markets, it is critical that software conforms to industry standards for functional safety. Diab Compiler has been a reliable code-generation tool for avionic products certified for DO-178B and industrial products certified to IEC 61508, and is now qualified for use in automotive applications certified to ISO 26262. It's 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 Wind River's 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 10 major support centers and 15 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 life cycle to meet any needs that require special support and maintenance services. In addition, the service provides custom bug fixing and quality assurance to minimize the impact of compiler changes to your code. Contact Wind River Customer Support ([www.windriver.com/support](http://www.windriver.com/support)) or your account manager for more details.

## HOW TO PURCHASE WIND RIVER SOLUTIONS

Visit [www.windriver.com/company/contact/index.html](http://www.windriver.com/company/contact/index.html) to find your local Wind River sales contact. To have a sales representative contact you, call 800-545-9463 or write to [inquiries@windriver.com](mailto:inquiries@windriver.com).

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