PTC ObjectAda® for Windows®

Combine blazing-fast compilation speed with efficient edit and debug tools.

PTC ObjectAda for Windows is one of the most popular Ada environments of all time, providing a large array of specialty tools for serious engineers working on large-scale projects and the most demanding mission-critical applications.

Today's systems, even those deploying legacy applications, continue to evolve and improve with faster execution and more memory. Ada applications, by nature, are often intensive and complex code bases that are growing to consume the increased capacity of the systems that host them. And, they are being created, evolved, and maintained by teams of developers needing engineering-quality tools. As a result, the efficiency of development tools has become a very significant differentiator to cost and time to delivery. PTC ObjectAda for Windows is a complete Ada software development solution for deployment of Ada applications on the Microsoft® Windows platform. It combines blazing-fast compilation speed with efficient edit and debug tools that engineers require for development of mission-critical applications.
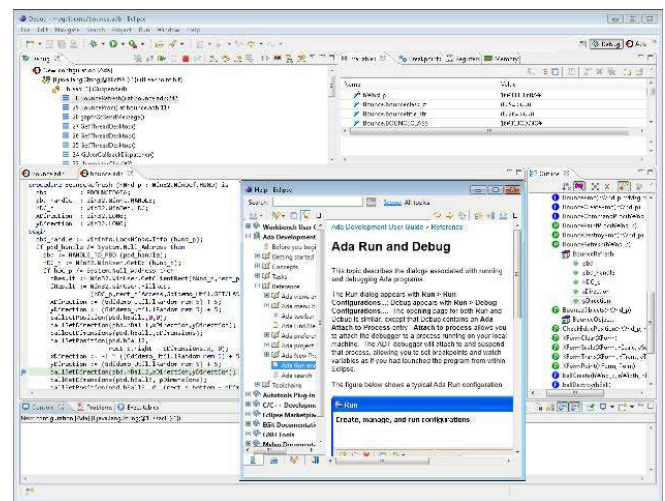
Key features

- ObjectAda for Windows: 32-bit support for x86-based Windows platforms

- ObjectAda64 for Windows: 64-bit support for x86_64-based Windows platforms

- Windows 10 & 11 compatibility

- Visual C++ 2022 tools & Windows 11 SDK libraries

- Ada Development Toolkit (ADT) Eclipse interface - Works with latest Eclipse versions

- Windows API Ada language bindings

- Compiler options to facilitate porting existing Ada source code to 64-bit

- Ada95, Ada 2005, and Ada 2012 modes

- Efficient, reliable, and optimizing compiler technology provides complete, well-rounded development environment

- Provides robust tools and comprehensive reference documentation to assist in development process

- Easy-to-use environment

Capabilities and specifications

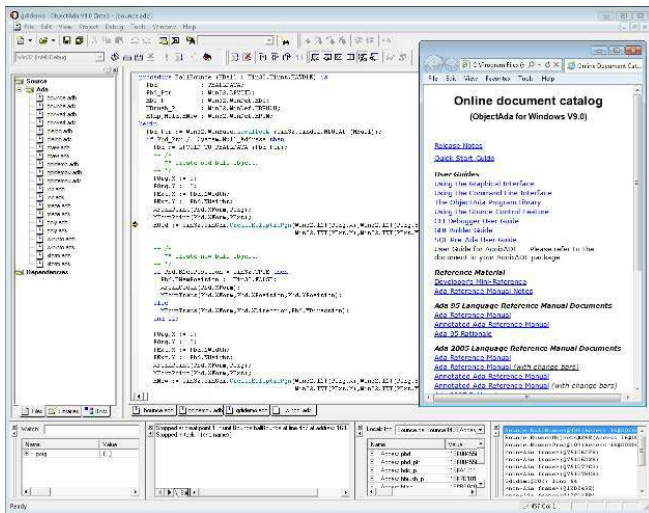**Flexible integrated development environment:** PTC's Ada products allow an organization to choose between the traditional PTC IDE and the PTC ADT plug-in for Eclipse, enabling integration of all organizational tool chains to operate in a common Eclipse-based environment.

PTC ObjectAda Eclipse-based development environment.

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PTC ADT incorporates Ada project awareness and Ada language-sensitive editor, Ada language compile and build capabilities, and a complete Ada debugger interface, all in an environment geared to maximize developer ease and efficiency.

Optionally, developers may choose to use the PTC Windows-based IDE modeled after Microsoft's time-tested Visual C++ product, one of the most widely used IDEs on the market. This intuitive graphical environment ensures a short learning curve and extreme flexibility.

PTC ObjectAda Windows-based IDE.

Lightning-fast optimizing compiler: State-of-the-art analytical engine optimizes compiler performance and object code generation.

- **Fast, open library model:** Source files are mapped one-for-one with object files which can be intermixed with object files from any other language. Simple ASCII text files are used to maintain basic build information and dependency.

- **DLL import and export:** Easy-to-use mechanisms for creating Dynamic Link Libraries (DLLs) for use by other applications and existing DLLs.

- **Visual Ada source browser:** An integrated source browser that supports navigation from an identifier to its declaration or references, and visualization of relationships between objects is included.

- **Integrated Ada reference manual:** Hypertext versions of the Ada Language Reference Manual (LRM) and Ada Rationale make it easy to browse the full scope and breadth of the Ada language and to understand the reasoning behind its design. Compile-time errors are cross-referenced into the LRM.

- **Windows API Ada Language bindings:** Windows programmers can choose between the de-facto standard Win32 Ada bindings (Win32Ada), and the WinAPI evolvable binding set designed to keep up with the latest Microsoft API releases.

- **Codeview debugger support:** Codeview-compatible debuggers (e.g., Microsoft Visual C++®) are supported, enabling the debug Ada and multilingual applications.

- **Ada 2012 Annex G Numerics support:** Complete implementation of Ada 2012 Numerics annex provides features for complex arithmetic, including complex I/O, features for the manipulation of real and complex vectors and matrices.

- **AdaNav analysis toolset:** Provides complete system HTML source-navigation capabilities, as well as call tree and unit tree graphical reporting and automatic data dictionary generation. The AdaNav profiler provides run-time performance reporting to help identify application hot spots and improve program performance.

- **ASIS support:** The Ada Semantic Interface Specification (ASIS) support in PTC ObjectAda provides a standard way for tools to extract semantic data that is best collected by an Ada compiler.

For more information, visit: https://www.ptc.com/products/developer-tools/objectada