

# 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 to meet the expectations of serious engineers working on large-scale projects and the most demanding mission-critical applications.

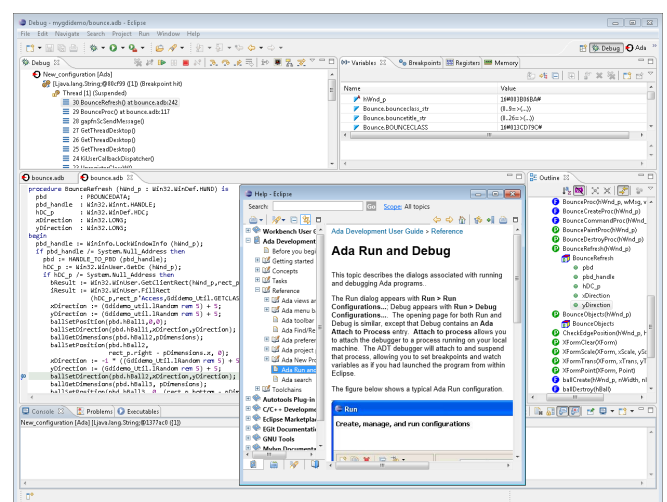
Today's systems, even those deploying legacy applications, continue to evolve and improve with faster execution and more memory. Ada applications, by nature, are often intensive and complex code bases that are growing to consume the increased capacity of the systems that host them. And, they are being 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 benefits

- Powerful programming language perfect for complex development projects
- Provides robust tools and comprehensive reference documentation to assist in development process
- Easy-to-use environment
- Efficient, reliable, and optimizing compiler technology provides complete, well-rounded development environment

## Capabilities and specifications

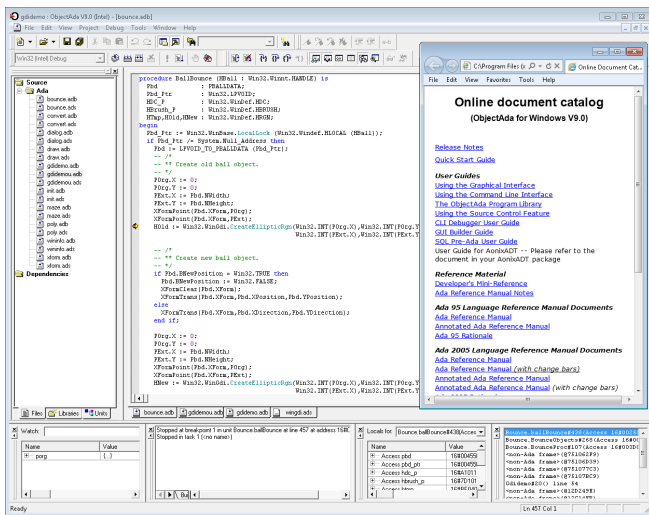
- **Flexible integrated development environment:** PTC's Ada products allow your organization to choose between the traditional PTC IDE and the PTC ADT plug-in for Eclipse, enabling integration of all of your organizational tool chains to operate in a common Eclipse-based environment. PTC ADT incorporates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



PTC ObjectAda Eclipse-based development environment.

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

- **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 information is taken directly from source files



PTC ObjectAda Windows-based IDE.

- **DLL import and export:** Easy-to-use mechanisms for creating 32-bit Dynamic Link Libraries (DLLs) for use by other applications and existing DLLs
- **Visual Ada source browser:** Includes an integrated source browser that supports navigation from an identifier to its declaration or references and visualization of relationships between objects
- **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

- **Win32 and MFC bindings:** Windows programmers can choose between the de-facto standard Win32 Ada bindings, and the WinAPI evolvable binding set designed to keep up with the latest Microsoft API releases, and a binding to the most frequently used components of the Microsoft Foundation Classes
- **Codeview debugger support:** In addition to its integrated Ada debugger, it supports use of Codeview-compatible debuggers (e.g., Microsoft Visual C++®) to debug Ada and multilingual applications
- **AdaNav analysis toolset<sup>†</sup>:** 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 you identify application hot spots and improve program performance
- **ASIS support<sup>†</sup>:** Provides a standard way for tools to extract semantic data that is best collected by an Ada compiler

<sup>†</sup>Optional Features

## Platform support and system requirements

For more information, visit: [PTC.com/go/integrity](https://www.ptc.com/go/integrity)

© 2016, PTC Inc. (PTC). All rights reserved. Information described herein is furnished for informational use only, is subject to change without notice, and should not be taken as a guarantee, commitment, or offer by PTC. PTC, the PTC logo, and all PTC product names and logos are trademarks or registered trademarks of PTC and/or its subsidiaries in the United States and other countries. All other product or company names are property of their respective owners. The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.

J7827-PTCObjectAdaforWindows-EN-1116