PTC ObjectAda® for UNIX®

A complete Ada software development solution for deployment of Ada applications on popular Unix-based platforms

PTC ObjectAda for UNIX is one of the most competent Ada environments, providing a large array of specialty tools to meet the expectations of serious engineers of large-scale projects and the most demanding mission-critical applications.

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. As a result, the efficiency of development tools has become a very significant differentiator to cost and time-to-delivery.

PTC ObjectAda, the best choice for complex development projects, provides robust tools and comprehensive reference documentation to assist in the development process. Combined with an easy-to-use environment and efficient, reliable, and optimizing compiler technology, these features provide a complete, well-rounded development environment.

Key benefits

• Supports the full power of UNIX for Ada:
  - Reliable and manageable development platform
  - Integrated tools, extensible environments, ASIS support, and third party plug-ins for building robust UNIX applications
  - Provides run-time performance reporting through AdaNav profiler to help developers identify application hot spots to improve program performance
  - ASIS support† provides a standard way for tools to extract semantic data that is best collected by an Ada compiler

• Includes hypertext versions of the Ada Language Reference Manual (LRM) and Ada Rationale
  - Browses the full scope and breadth of Ada easily and understand the reasoning behind its design
  - Cross-references compile time errors into the LRM by clicking on an error message. This will present the exact portion of the LRM that has been violated, greatly reducing the edit-compile-debug cycle

PTC ObjectAda Eclipse-based development environment
Capabilities and specifications

- Platform support for Solaris™/x86, Solaris/SPARC, HP-UX®, AIX®, and Linux®
- Lightning-fast Ada compilation technology
- GUI development environment with graphical debugger
- Language-sensitive editor
- Lightweight, source-based library manager
- Ada source browser
- Support for POSIX® threads and POSIX bindings
  - AdaPOSIX, an IEEE POSIX 1003.5 compliant Ada binding to standard POSIX APIs, enables development of portable enterprise applications in Ada which leverage the power and stability of UNIX
- PTC ADT (Ada Development Toolkit) plug-ins for Eclipse
- AdaNav analysis toolset†
  - Complete system HTML source navigation capabilities as well as call tree and unit tree graphical reporting and automatic data dictionary generation
- Simple and open library model
  - Faster, more reliable library model due to sophisticated caching techniques
  - Map source files one-for-one with object files, or combine in directory structures for easier maintenance and dependency tracking with the dependency information taken directly from source files
- Lightning-fast compilation
  - State-of-the-art analytical engine designed by the chief architect of the Ada language
  - Compiler technology results in compilation speeds many times faster than preceding Ada technologies, and comparable to the best compiler technology used for other general purpose programming languages