

PTC ObjectAda Version 10.3 for Linux is now available!

New native Ada compiler release provides upgraded Ada 2012 language support

Boston, MA – October 25, 2021 -- PTC (NASDAQ: PTC) today announced the release of version 10.3 of its PTC® ObjectAda for Linux and PTC ObjectAda64 for Linux Ada compiler products. Building upon the Ada 2012 and 64-bit code generation introduced by the previous version, this new product release provides upgraded Ada 2012 language support compliant with the Ada Conformity Assessment Test Suite (ACATS) version 4.1V and includes complete support for Annex G “Numerics”.

ObjectAda version 10.x is a major upgrade from previous versions incorporating these enhancements:

- New Ada 2005 & 2012 language support with ObjectAda on Linux/Intel platforms
- Ada 95, Ada 2005, and Ada 2012 compiler operation modes
- New 64-bit application development support with ObjectAda64 for Linux
- Compiler, runtime, debugger upgrades
- Red Hat Enterprise Linux 7.6+ / 8.x (or equivalent Linux distribution) compatibility
- Ada Development Toolkit (ADT) Eclipse interface upgrade – now works with latest (64-bit) Eclipse versions

“ObjectAda version 10.3 represents a substantial refinement of the Ada 2012 language feature support within the ObjectAda technology and PTC is extremely pleased to introduce these new releases for the Linux/Intel platform since development of mission-critical applications on Linux/Intel platforms has become increasingly important to our customers using PTC Ada compiler products.” stated Shawn Fanning, Software Development Director at PTC. “ObjectAda version 10.3 for Linux/Intel contains the same improvements in our ObjectAda compiler technology that we introduced earlier with ObjectAda for Windows v10.3. Released concurrently with the new ObjectAda for Linux and ObjectAda64 for Linux products is version 4.2.0 of the ObjectAda Ada Development Toolkit (ADT) Eclipse interface which provides support for Eclipse 2021-09 (4.21) or later on both the Linux and Windows platforms. All of these upgrades combined make ObjectAda version 10.3 a solid, modern, and effective toolset for development of mission-critical application code in the Ada language on both Linux and Windows platforms.”

About PTC’s ObjectAda Family of Products

PTC ObjectAda is an extensive family of native and cross development tools and runtime environments. PTC ObjectAda native products provide host development and execution support for the most popular environments including Windows, Linux and various UNIX operating systems. PTC ObjectAda Real-Time products provide cross development tools on Windows, Linux or UNIX systems which target PowerPC and Intel target processors in support of “bare” hardware execution or in conjunction with popular RTOSs. PTC ObjectAda Raven products provide a hard-real-time Ada runtime to address those systems requiring small footprint, deterministic behavior, or certification to safety standards.

Shipping and Availability

PTC ObjectAda v10.3 and PTC ObjectAda64 v10.3 for Linux are immediately available. License pricing for new customers is available on request. For more information about these or other PTC ObjectAda products, please visit <https://www.ptc.com/products/developer-tools/objectada>.

PTC ObjectAda® for Linux

LEVERAGE THE ADVANTAGES OF THE LINUX-BASED OPEN-SOURCE DEVELOPMENT PLATFORM

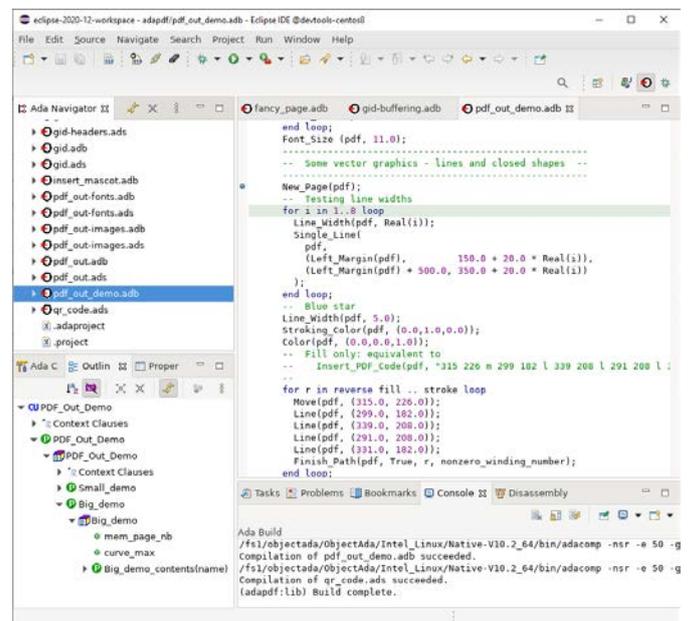
PTC ObjectAda for Linux® is a complete enterprise-class Ada software development solution for the deployment of Ada applications on popular Linux-based platforms. It combines blazing-fast compilation speed with efficient edit and debug tools that engineers require for development of mission-critical applications.

Today's systems, even those deploying legacy applications, continue to evolve and improve with faster execution and more memory. Increasingly mission-critical applications are deployed on Linux-based platforms to leverage the advantages of open-source components, as well as the lower cost and higher performance of Linux/Intel platforms. PTC ObjectAda for Linux is a complete Ada software development solution for deployment of Ada applications on the Linux/Intel platforms. 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 Linux: 32-bit support for x86-based Linux native applications
- ObjectAda64 for Linux: 64-bit support for x86_64-based Linux native applications
- Ada95, Ada 2005, and Ada 2012 language edition support
- Features which facilitate porting existing Ada source code to 64-bit
- Efficient, reliable, and optimizing compiler technology provides complete, well-rounded development environment
- Comprehensive reference documentation to assist in development process

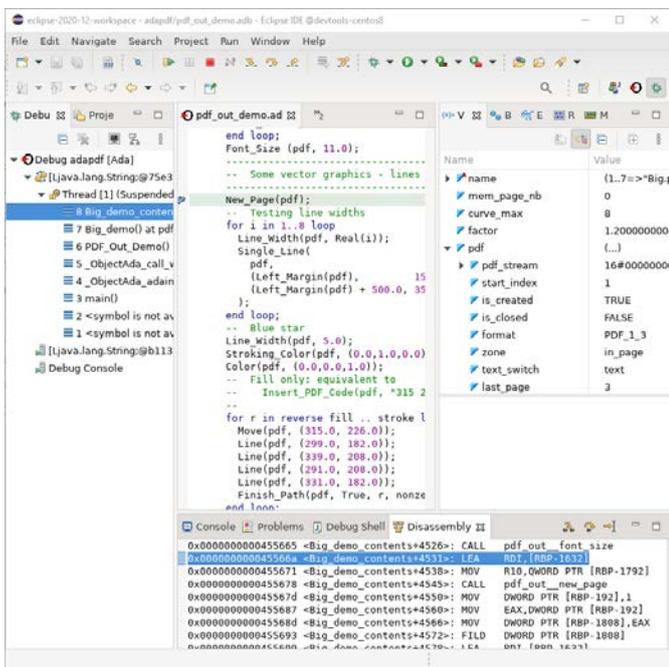
- Includes an optimizing compiler, library manager, runtime, debugger, and configuration management integrations
- Eclipse-based graphical user interface for building projects with the ObjectAda tools provides a productivity toolset that include an editor, a browser, and graphical interface to the ObjectAda debugger.
- Easy-to-use environment



PTC ObjectAda Eclipse-based development environment.

Capabilities and specifications

- **Powerful Eclipse-based IDE:** ObjectAda plugins for Eclipse incorporate Ada-project awareness, an Ada-language sensitive editor, Ada-language compile and build capabilities, and a complete Ada debugger interface, enabling Ada developers to enjoy state-of-the-art interface capabilities geared to maximize developer ease and efficiency. Allows for leveraging built-in support within Eclipse to integrate with configuration management systems such as Git.



Using PTC ObjectAda Eclipse IDE Ada debugger

- **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.

- **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.
- **AdaPOSIX:** Ada binding to standard POSIX APIs compliant with IEE POSIX 1003.5 specification.
- **AdaNav analysis toolset:** Provides 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) library provides a standard way for tools to extract semantic data that is best collected by an Ada compiler.
- **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.

Platform support and system requirements

- Support for Red Hat Enterprise Linux V7.6 and later (and equivalent Linux distributions)
- Eclipse SDK 2020-09 (4.17) or greater (64-bit, requires Java 11 / OpenJDK 11 64-bit support)

For more information, visit:

<https://www.ptc.com/products/developer-tools/objectada>

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