

ObjectAda

Real-Time LynxOS

OBJECTADA SUPPORTS THE FULL POWER OF LYNXOS FOR ADA

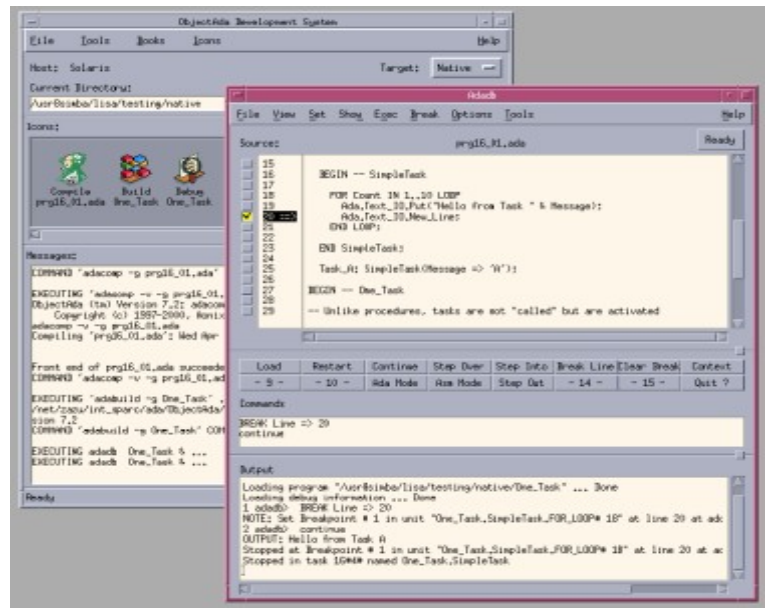
Embedded developers find Aonix's ObjectAda Real-Time for LynxOS provides the real-time features they need with full Ada 95 support combined with a rich set of LynxOS features that collectively support the development of complex networked applications. ObjectAda Real-Time for LynxOS offers a robust development environment that includes an optimizing compiler, library manager, runtime, configuration management integrations, networking, LifeCycle tools support and productivity toolsets that include editor, browser & debugger.

Aonix's open systems approach to LynxOS development supports standards such as POSIX, TCP/IP, ASIS and CDE adding to the toolset's capabilities for developing and deploying interoperable, portable and reliable applications. Additionally, the LynxOS MMU (memory management unit) is supported for partitioned application development.

OBJECTADA REAL-TIME FOR LYNXOS HIGHLIGHTS

- Sun Solaris, Linux, and IBM AIX host environments
- PowerPC targets
- PosixWorks interoperability
- LynxOS kernel threads
- LynxOS MMU
- Scaleability including full-profile LynxOS support
- Ada 95 validated compiler with support for Annex A,B,C,D
- Motif IDE with CDE (Common Desktop Environment) integration
- POSIX
- TCP/IP networking
- Language-sensitive tools
- Flexible, stratified packages

“ObjectAda for LynxOS builds robust applications supported by a lightning-fast compile technology and a powerful, open, source-based library model.”



ADA ANNEX SUPPORT

- *Annex A* - supports complete coverage of the Ada pre-defined libraries
- *Annex B* - provides a standard interface with other languages
- *Annex C* - includes support for system level programming
- *Annex D* - implements real-time capabilities of the core language

ACAT VALIDATED

ObjectAda Real-Time for LynxOS is fully validated with the most recent version of the validation test suite, comprising thousands of conformity tests covering all language, syntactic, and semantic categories.

LIGHTNING-FAST COMPILATION

The ObjectAda Real-Time for LynxOS compiler features a state-of-the-art analytical engine designed by the chief architect of the Ada language. Our 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.

FAST, OPEN LIBRARY MODEL

Unlike most Ada development environments, ObjectAda Real-Time for LynxOS does not impose a bulky proprietary library architecture on the user. The ObjectAda library model is simple, open, and extremely fast. Source files can be mapped one-for-one with object files, or combined in directory structures for easier maintenance and dependency tracking with the dependency information taken directly from the source files. Sophisticated caching techniques make this library system faster and more reliable than other library models.

INTEGRATED ADA LRM

Hypertext versions of the Ada Language Reference Manual (LRM) and Ada Rationale are included with ObjectAda Real-Time for LynxOS, making it easy to browse the full scope and breadth of Ada and to understand the reasoning behind its design. Compiler time errors are cross-referenced into the LRM - just click on an error message and it will present the exact portion of the LRM that has been violated, greatly reducing the edit-compiler-debug cycle.

ABOUT LYNXOS

LynxOS is a UNIX-compatible POSIX-conformant multi-process and multi-threaded real-time embedded operating system. Because of its open API, LynxOS embedded application developers achieve the fastest time to market. LynxOS has hard real-time response while supporting a variety of services and system loading without performance degradation. LynxOS is scalable, reentrant, pre-emptive, and Romable. Integrated MMU process protection and virtual memory support promotes reliable, high availability embedded applications.



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