

PROGRESS[®] ORBACUS[™]

WHAT IS ORBACUS?

Progress[®] Orbacus[®] is a mature CORBA product that has been deployed around the world in mission-critical systems in the telecommunications, finance, government, defense, aerospace and transportation industries.

Orbacus is "CORBA 2.6 compliant" and is designed for rapid development, deployment and support in your choice of C++ or Java; its small footprint allows it to be easily embedded into memory-constrained applications. It is provided in source code form and is supported directly by its development engineers.

STANDARDS BASED

The Object Management Group (OMG) is the world's largest software consortium with more than 800 member organizations. The OMG specifies the CORBA standard and in 13 years CORBA has evolved from a set of technology standards to one of the standard technologies employed by IT organizations and independent software vendors (ISVs) alike. Orbacus is currently compliant with version 2.6 of the CORBA standard and Progress plans to continue to keep pace with the CORBA's evolution. No more problems with a single source of supply: standards compliance avoids vendor lock-in that so often accompanies proprietary solutions.

HIGHLIGHTS

- > CORBA 2.6 compliant
- > Designed for rapid development, deployment and support in your choice of C++ or Java
- > An all-source product that allows you to build an infrastructure that precisely matches your application and environment
- > Easy to use: Configuration and bootstrapping are simple
- > Provides load balancing, fault tolerance, active connection management, concurrency, dynamic loading of modules, flexibility through pluggable transport protocols

PROGRESS SOFTWARE'S COMMITMENT TO ORBACUS

Progress Software already has over 2000 active Orbacus customer deployments, complemented by a substantial academic program where it is being used for everything from teaching CORBA concepts to conducting telecommunications research. To address this, Orbacus is available as source available with no charge for development kits, evaluation, or academic purposes. To demonstrate our long-term support for Orbacus, we will commit to five years of product support up front for the latest version of Orbacus.

ORBACUS COMMUNITY

Orbacus has a loyal user base that has been actively using the Orbacus code base since 1998. Users range from academics teaching CORBA concepts using Orbacus in their examples to research projects in the aerospace industry. There are also many active contributors on the Orbacus mailing list and all Orbacus users are invited to provide contributions to Orbacus. Beyond contributions, there are also many CORBA extensions that have been tested with Orbacus, a few examples include a CORBA browser, a Tcl mapping language, an object oriented scripting language for CORBA and an ORB written in Python which uses the Orbacus Interface Repository.

DISTRIBUTED AS SOURCE CODE

Orbacus targets serious developers who require the transparency that source code availability provides, to look under the hood and diagnose potential problems during development. With Orbacus being provided as an all-source product, you build an infrastructure that precisely matches your application and environment. This is particularly important when development times are so critical and the consequence of error is so high. Developers can:

- > Choose features of the product they wish to use in their application to optimize size and speed characteristics
- > Create "debug builds" to help perfect CORBA applications
- > Use the product's service implementations as examples of real world CORBA services

XYLEME ZONE SERVER

Xyleme's customers have been able to reap the benefits of the performance of Xyleme Zone Server, which is based on Orbacus. Le Monde Group, a leading French press group, and one of Xyleme's major customers, uses 6GB of indexed content to enable instant access to its 800,000 press articles. The scalability that Orbacus provides to Xyleme Zone Server reduces the hardware size requirements by 85%, resulting in performance improvements and hardware savings for Le Monde.

- > Obtain and apply source code patches more easily than for traditional binary product
- > Build applications on different distributions of Linux because of the built-in independence
- > Choose project-specific operating system and compiler settings
- > Rebuild Orbacus to rebound from binary incompatible changes of the underlying OS
- > Port Orbacus to platforms or compiler versions that are unsupported by Progress Software

ORBACUS SUPPORTED DIRECTLY BY DEVELOPERS

Orbacus is supported directly by its development team. Customers with valid support contracts usually get a response within a few hours during business hours. Since it is supported directly by some of the original product developers, there is support continuity going back to 1998.

INTEROPERABILITY WITH OTHER PROGRESS PRODUCTS

Orbacus interoperates fully with both Orbix and Artix. Artix is an extensible Enterprise Service Bus which can extend CORBA applications by service-enabling application endpoints.

SERVICES

Enterprise Customer Support

With more customers and more systems in production than any other CORBA vendor, Progress Software is able to offer the highest quality CORBA support in the industry. The large installed customer base of Progress Software are solving difficult, demanding problems using the best tools available. We know that when a critical production system fails on a Saturday morning, the root cause must be rapidly identified and rectified. Progress Software offers Standard, Silver and Gold support that are tailored to meet specific service level requirements; these support levels provide a range of options that includes 7x24 support in all timezones. Upon notification of a

“With Xyleme Zone Server our customers do not need to compromise performance or accuracy for high capacity. The server is designed to run its clusters for large-scale applications, or on a single machine for standalone applications. Orbacus delivers the outstanding performance that we need for our customer requirements.”

*Sophie Cluet
Chief Technical Officer
Xyleme*

product issue, Progress Software's response is a precise commitment and application of issue resolution within a guaranteed, specified timeframe.

Professional Services

Our industry experience gained through 4500 successful customer deployments and years of experience in services-orientated application development helps customers lower risk and maximize their return on investment. We have helped customers like Boeing, AT&T and Credit Suisse Group realize substantial return on investment by implementing services-oriented integration architectures, opening up mainframes, and integrating Commercial Off The Shelf (COTS) software systems. Progress Software's Professional Services department has significantly reduced risk for these customers.

We also offer a 5-day hands-on programming course for Orbacus with C++ and Orbacus for Java. You can attend a public course or alternatively we can deliver on-site training precisely tailored to your needs based on your particular industry and application.

Porting to More OS/Compilers

Besides the wide platform coverage that Orbacus provides as standard, we will also consider ports to currently unsupported platforms, such as AS/400, SCO Unix, OpenVMS.

"Many of our business applications are solutions bought in from third parties. This is an efficient approach only if the necessary systems can all talk to each other. CORBA is an excellent way to fulfill integration requirements like this and, with Orbacus, Progress Software provides a first-class implementation that is a fundamental link in our business operations."

*Richard Dunlop
Technical Services Group
Gulf International Bank (UK)*

TECHNICAL FEATURES

EASE OF USE

Configuration and bootstrapping is simple

- > *Daemon-less servers*
- > *Servers started automatically by the Implementation Repository*
- > *URL-style object references*

Watson diagnostics and analysis Method tracing within the ORB

Extensible Logging facility—Output to multiple devices

Documentation Tools—Translators

- > *IDL to Hypertext*
- > *Markup Language (HTML) IDL to Rich Text Format (RTF)*
- > *JThreads/C++—Java like threading for C++*

QUALITIES OF SERVICE

Load Balancing

- > *Balance client requests across a set of replicated objects and stateless servers*

Fault Tolerance

- > *Transparent failover by implementing multiple profile Interoperable Object References*

Active Connection Management

- > *Reclaim idle connections automatically, conserving threads, sockets, memory and other important system resources*

Concurrency

- > *Single and Multithreaded models to exploit power of multiprocessor hardware*

Dynamic Loading Of Modules

- > *Transparently install extensions and services such as transactions, interceptors, and protocol plug-ins*

Flexibility through pluggable transport protocols

CORBA FEATURES

CORBA 2.6 support

CORBA Services

- > *Naming, Events and Property services are part of the Orbacus base product, with Orbacus Notify available separately*
- > *Orbacus Notify supports Asynchronous, Decoupled, communication between producers and subscribers*

Asynchronous Method

- > *Invocation adds asynchronous behaviour to the standard request reply*

AMI Router

- > *Configure your system to allow servers to go offline on a regular basis and rely on a set of persistent AMI routers as alternative, fallback destination*

Objects by Value

- > *Reduce network traffic by turning a remote interaction into a local invocation*

Dynamic Invocation and Dynamic-Skeleton Interface

- > *Send and receive requests without compile-time knowledge of interface types and operation signatures*

Support for Local Interfaces

- > *Standard way to implement locality-constrained objects*

PROGRESS SOFTWARE

Progress Software Corporation (NASDAQ: PRGS) is a global software company that enables enterprises to be operationally responsive to changing conditions and customer interactions as they occur. Our goal is to enable our customers to capitalize on new opportunities, drive greater efficiencies, and reduce risk. Progress offers a comprehensive portfolio of best-in-class infrastructure software spanning event-driven visibility and real-time response, open integration, data access and integration, and application development and management—all supporting on-premises and SaaS/cloud deployments. Progress maximizes the benefits of operational responsiveness while minimizing IT complexity and total cost of ownership.

WORLDWIDE HEADQUARTERS

Progress Software Corporation, 14 Oak Park, Bedford, MA 01730 USA
Tel: +1 781 280-4000 Fax: +1 781 280-4095 On the Web at: www.progress.com

Find us on  facebook.com/progresssw  twitter.com/progresssw  youtube.com/progresssw

For regional international office locations and contact information, please refer to the Web page below:
www.progress.com/worldwide

Progress, Orbacus, and Business Making Progress are trademarks or registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and other countries. Any other marks contained herein may be trademarks of their respective owners. Specifications subject to change without notice.

© 2011 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved.

Rev. 06/11 | 6525-128600

