

WHAT IS ORBACUS?

Micro Focus Orbacus® is a mature CORBA product 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.

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. Micro Focus Orbacus is currently compliant with version 2.6 of the CORBA standard and Micro Focus plans to continue to keep pace with the CORBA's evolution. No more problems with a single supply source: standards compliance avoids vendor lockin that can accompany 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: build an infrastructure that precisely matches your application and environment
- Easy to use: Simple configuration and bootstrapping
- Provides load balancing, fault tolerance, active connection management, concurrency, dynamic loading of modules, flexibility through pluggable transport protocols

ORBACUS COMMUNITY

Micro Focus 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 contribute. 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

Micro Focus 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 crucial 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
- 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 Micro Focus software

ORBACUS: FULLY SUPPORTED

Customers with valid support contracts can expect a response within a few hours during business hours for high severity issues.

INTEROPERABILITY WITH OTHER MICRO FOCUS PRODUCTS

Micro Focus 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, Micro Focus is able to offer the highest quality CORBA support in the industry. We know that when a critical production system fails on a Saturday morning, the root cause must be rapidly identified and rectified. Micro Focus 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 product issue, Micro Focus response is a precise commitment and application of issue resolution within a guaranteed, specified timeframe.

Professional Services

Our industry experience gained through years of experience in services-orientated application development helps customers lower risk and maximize their return on investment. We have helped customers realize substantial return on investment by implementing services-oriented integration architectures, opening up mainframes, and integrating Commercial Off The Shelf (COTS) software systems. Micro Focus has significantly reduced risk for these customers.

Porting to More OS /Compilers

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

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 the system to enable 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

For additional information please visit: www.microfocus.com