

RapiTime/C++ Beta Program

Introduction to RapiTime

RapiTime from Rapita Systems Ltd. is an automated performance measurement and timing analysis tool. Targeted at real-time, embedded applications, RapiTime provides code coverage metrics, performance measurement, determination of worst-case execution time, and guidance for optimization efforts.

Further information on RapiTime is available from <http://www.RapitaSystems.com>, or via your distributor.

RapiTime for C++

The MISRA C++:2008 standard states:

“C++ is growing in importance and use for critical systems, due largely to its inherent language flexibility, extensive support, and portability across a wide range of hardware.”

Because of the growth of C++, especially in mil/aero applications, Rapita Systems is adding C++ support to RapiTime's existing C support.

The planned release date of RapiTime with C++ support is September 2010. To provide early access to this important technology, Rapita Systems will be conducting a beta program.

Beta Program

Rapita is looking for developers to participate in the beta program for RapiTime/C++. Participants will benefit from early availability of RapiTime/C++, a generous discount on licence prices and the ability to influence the ongoing development of the new product.

The timescale for the beta program is as follows:

Language Feature	Beta release	Public release
Namespaces	Yes	Yes
Objects and classes	Yes	Yes
Static method calls	Yes	Yes
Constructors and destructors	Parse only	Yes
“C”-like language features	Yes	Yes
Templates	Parse only	Yes*
Overloading	Yes	Yes
Exceptions	Parse only	Yes
Parse unsupported features	Yes	Yes
Dynamic dispatching	No	Yes
Inheritance	Yes	Yes
Stream operators	No	Yes
Standard Template Library	Yes	Yes
Function pointers	Limited support	Yes
Recursion	Yes	Yes
Method pointers	No	Yes
Visibility	Yes	Yes
References	No	Yes
Friends	No	Yes*
Nested classes	Yes	Yes
Compiler extensions	Yes	Yes
Nested functions	Yes	Yes
Funcctors	No	Yes*
Multiple inheritance	No	Yes*

* Some limitations in use, please contact Rapita Systems for

April '10	Deadline for entering the beta program. Pre-release integration activities.
May '10	Initial availability of RapiTime/C++
July '10	Beta program complete.
Sept '10	Public release of RapiTime/C++

RapiTime/C++ Language Features Supported

The beta release of RapiTime/C++ will offer a subset of the full C++ language. In designing the beta program, Rapita have attempted to ensure that the beta releases include the C++ features most commonly used in embedded development. If you are interested in participating in the beta program, but require a feature that will not be available until the public release, please contact us.

Integrating RapiTime

Key to the successful use of RapiTime is integrating it into the development process. This involves getting RapiTime working with the development toolchain, and establishing the best mechanism for collecting timing data. To get the best benefit from the beta program, Rapita recommend performing an integration activity prior to the start of the trial version. An integration consultancy package is available to support this.

Frequently Asked Questions

What will it cost?

There is no cost for the RapiTime/C++ beta. We do recommend the purchase of an integration consultancy package.

What do I receive?

You receive a single license for the beta version of RapiTime/C++. This license that lasts until the release of the full product. Additional software updates may be made available to you prior to the full product release. You will have access to Rapita's extremely responsive telephone and email support throughout the beta period.

You will also receive a discount on the first year subscription of a RapiTime license on the release of RapiTime/C++ in September.

What's involved in the beta program?

We ask that you report any issues you encounter in using RapiTime/C++. We would also like to conduct a short discussion with you at pre-defined points during the evaluation. This will be your opportunity to provide feedback, and is an opportunity to affect the final product.

What happens between July and September?

The formal beta program ends in July. From July until September, Rapita will be preparing RapiTime/C++ for release as a full product.

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During this time, you can continue to use the beta version, and will receive full support.

What compilers will be supported?

For RapiTime/C++ (and other RapiTime variants), compiler support means handling compiler-specific extensions to the language. Supported compilers will initially be driven by the requirements of participants in the beta program. At release, RapiTime/C++ will support most popular C++ compilers used in embedded applications.

Next steps

If you are interested in participating in the RapiTime/C++ beta program, please contact Rapita Systems, or the distributors listed in the sidebar.



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