

RapiCover

Introduction to RapiCover

RapiCover from Rapita Systems Ltd. is an on-target code coverage measurement tool which supports system and integration testing processes. RapiCover maps coverage to specific test cases, involves minimal instrumentation, and provides an adaptable approach to on-target code coverage measurement.

Benefits

The benefits RapiCover provides include:

- **Supports system and integration testing.** RapiCover provides a number of features to support measuring the coverage of entire applications (for example combining results from multiple, partly instrumented builds; mixed levels of instrumentation).
- **Minimal memory overheads.** Our tools have been designed with minimal memory overheads in mind. Specific integrations can support extremely efficient on-target measurement.
- **Custom target support.** Built with embedded systems in mind, RapiCover's adaptability means an integration can be made to meet your specific environment's characteristics.
- **Ability to work on host.** RapiCover can also work in an on-host environment, providing the same level of flexibility as for on-target coverage.
- **Measure performance and coverage simultaneously.** Working with RapiTime, a

single test run can provide detailed timing information and coverage information, reducing verification time.



Key Features

RapiCover provides the following features:

- **Multiple coverage levels** (statement, branch, function, call and MC/DC coverage).
- **Support for C, C++ and Ada***. It is possible to mix languages within a single application.
- **Trace coverage to specific test cases.** Specific coverage results can be assigned to identified test cases (or groups of test cases). This allows the user to view test coverage on a per test case basis.
- **In-memory or externally logged coverage.** Flexible approaches to collecting coverage data allows for matching your system's architecture.

*RapiCover/aero only

- **Target integration packages.** This provides you with the information necessary to integrate RapiCover onto your specific environment (processor, toolchain, data collection technology and OS).
- **Aerospace and Automotive-specific variants.** Upon release, RapiCover will be available in aerospace and automotive specific variants.

These variants support processors, toolchains and RTOS that are specific to a particular industry. They also provide data in a form that is convenient for industry-specific qualification.

- **Qualification kits.** These will be available:

For DO-178B/DO-178C for RapiCover/aero



And for ISO26262 for RapiCover/auto



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Availability

RapiCover will be available as a standalone product or as part of the upcoming RVS 3.0 (Rapita Verification Suite), which also includes RapiTime (to support on-target timing verification).

RVS 3.0 will be released on 1st June 2011.

Next Steps

If you are interested in finding out more about RapiCover, please contact Rapita Systems or the listed distributors.



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