

Automation of software testing

Rapi**Test** makes it easy to write, run and report on software tests by providing an automated workflow that can be managed through a simple user interface or the command line:

- Generate test templates quickly
- Automate on-target and on-host testing with fast incremental builds and efficient test generation
- Highlight failed tests to review, rewrite and rerun
- Merge reports from different test runs and builds

Powerful test formats

A testing tool is only as powerful as its inputs. The test authoring technology behind Rapi**Test** makes it quick and easy to write tests:

- Minimize usercode by defining even complex tests easily using spreadsheet or script formats
- Write a variety of stub behaviors without usercode

Tests					
Test details	Text	Call or stub	Variable	Operation	Value
New_Test					
#test valid integer values					
Name					From zero
Requirements					11
		Subtract_One	Value	set	0
		Add_One	Value	check	:
		.stub	return	set	:
		.uut	return	check	-1
End_Test					

Easy to use, easy to manage

Rapi**Test** is designed for ease of use, even in large scale projects including multiple test engineers and sites. It provides support through the following features:

- Analyze source code only once per project to reduce unnecessary overheads
- Portable test environments let you use a single project file throughout a team
- Add files such as requirements to projects for better traceability
- A variety of results filtering and search options to highlight project progress over time
- Easy to follow tutorials and detailed documentation

Get ready for certification

Rapi**Test** is built with safety in mind. Its DO-178B/C qualification kits and qualified target integration kits help reduce the cost of certification.

Integration with build systems

Rapi**Test** is flexible and fits directly into existing build systems through a range of strategies:

- Using a compiler wrapper to intercept calls between the build system and the compiler
- Using a clone of the project to automatically build the instrumented software
- Adapting the build system to insert direct calls to RVS tools

Integrated testing environment

As part of the Rapita Verification Suite, Rapi**Test** offers a gateway to other verification solutions:

- Rapi**Cover** for structural coverage analysis up to and including MC/DC
- Rapi**Time** for detailed timing analysis including high watermark and worst-case execution time
- Rapi**Task** for scheduling analysis in multi-thread and multi-core systems

Language support

- Ada 83-2012, support for GNAT Pro™ and Green Hills™ compilers among others
 - Handles even the most complex code constructs such as generics, nested functions and private types
- Support for C and agreed C++ language features

Licensing

- Enterprise license provides a single price for all features, transferrable across projects
- One-year support and maintenance included in purchase price



Atlas House
Osbalwick Link Road
York
YO10 3JB
United Kingdom

Email: enquiries@rapitasystems.com
Website: www.rapitasystems.com

Registered in England & Wales: 5011090

Tel (UK/International): +44 (0)1904 413945
Tel (US): +1 248-957-9801