

Rapita Customer Testimonials

Rapita **Verification Suite (RVS)**



"The main advantage [of using Rapi**Time**] is the possibility to identify the software bottlenecks that can be subject to optimization. Without Rapi**Time**, the mandatory **code optimization** would have been done without the knowledge of where to concentrate the efforts. With Rapi**Time**, we discovered the possibility to reduce by 10% the time spent by a Computer Software Configuration Item"

Alenia Aermacchi (now Leonardo)



"Cobham Aerospace Connectivity selected Rapita's structural coverage tool Rapi**Cover** for the high degree of flexibility it provides when instrumenting code for on target execution and coverage data capture. Rapita provided Cobham with first class assistance in setting up the integration, as well as supporting the qualification of the tool to comply with DO-330"

Dr. Neil Tisdale Software Group Manager - Cobham Aerospace Connectivity



"We have successfully shown the viability of using Rapi**Time** to measure WCET. It was able to support our hardware platform and once the system was set up, the analysis method could be repeated with relative ease. With the WCET results, time partitioning was easily configured in the platform for the FCS application.

Processing resources could be optimized by tightening the time window, even leaving some room for future expansion. Additionally the application hard deadline could be configured based on the results, with a Health Monitor to trigger if exceeded."

Felipe Kamei - Embraer



"Rapita's highly-optimized instrumenter has allowed us to measure software coverage without costly and burdensome changes to our testing process. We use the tool on some of the world's most complicated flight control systems. Compared to previous tools we've used in the past, Rapi**Cover**'s performance has been much more reliable and robust. Rapita's technical customer service team has been consistently helpful and responsive."

Collins Aerospace Flight Controls

"We have been impressed with the **RVS** toolsuite and really appreciated the high-quality, **efficient support** offered by the Rapita support team. Technical challenges were solved quickly throughout the project, from initial integration through to target **qualification** testing. The team made sure we had a clear path to success underpinned by a **solid integration** and were always available when needed."

Corey Hawken, Senior Principal Engineer, Systems Engineering - Collins Aerospace

"The qualification and deployment of a new tool takes effort, but the Rapita team have an excellent qualification solution and worked closely with us to produce an efficient deployment. The quality and ease-of-use of Rapita's **Qualification** products and services is second to none and made the adoption of **RVS** simple and pain-free."

Kyle Ford, Principal Software Engineer, TSO Certification Representative, Design Certification Engineering - Collins Aerospace

"It was the combination of static and dynamic analysis that attracted us. We were concerned that an approach that relied only on static analysis was dependent upon getting the model of the hardware exactly right. Rapi**Time**'s ability to measure code executed on the target hardware removes that risk from the outset. The biggest benefit that Rapi**Time** brought to our development process was just how quickly we could get comprehensive timing measurements from our tests.

Not only did we reduce our effort requirements for the testing, but we could use our results in ways that were infeasible before. It is now significantly faster for us to identify a timing issue, update the software to resolve the issue, test the updated software and verify that it's fixed. RapiTime has also helped us to identify some very specific performance bottlenecks with the underlying hardware that were causing very real difficulty to identify."

Wayne King, Engineering Fellow



"RapiCover's low overheads and advanced features enabled our team to significantly reduce the time and effort required for our structural coverage analysis. Rapita's support team also demonstrated a genuine determination to support us when required, and we are delighted with our overall experience with Rapita as a verification partner."

Steve Baker, Director - MBE Systems



"We are very pleased with the performance of RapiCover on our recent project. Rapita's engineers quickly deployed the tool and we were gathering meaningful results immediately. RapiCover's very low resource requirements were the difference between success and failure to gather the data needed to support our certification".

Andrew Porritt, Software Quality Manager - Pilatus



"The AMASS project aims to reduce the cost of certifying systems such as the ones we develop, which is critical for the continued production of safe systems and the growth of our industry.

Along with other efficiency improvements, Rapita's structural coverage analysis solution increased our end-to-end test speed by ~40% when compared with our previous approach, which will let us **produce verification evidence faster and reduce downstream certification costs.**

It was a delight working with Rapita. Their expert engineers quickly adapted to our build system and the integration went far more smoothly than we could have expected."

Anders Edfors, Attitude and Orbit Control Systems

BAE SYSTEMS

"We are delighted with the **schedule reductions** achieved in phase 1. The integration team are now looking at how RapiTime can be used as an integral part of the software development process for future Hawk developments."

Dean Armstrong, Software Engineering Manager - BAE Systems Brough



"We have been really impressed with Rapita throughout our relationship. RVS provides an extremely efficient and robust verification solution, and Rapita has worked together with us to support our preferred testing approach using test scripts. Based on the success we've had with RapiTest and RapiCover already, we're looking forward to start using RapiTime to complete our rigorous testing for safety assurance cases. We're impressed with Rapita's technical support; Rapita's engineers find a technical solution to any issues we encounter, and they find it quickly. We look forward to building on our relationship further as our project develops.."

Dr. Xavier Jean, R&D Software Engineer - EasyMile

V&V Services



"We approached Rapita looking for a **complete end-to-end solution for software verification.** Rapita delivered this and has also performed a range of system-level activities. We've appreciated their responsiveness from the get-go and the obvious benefits of having testers and tool provider under one roof."

Jim Pettinger, Director of Electronic Systems - Triumph Integrated Systems

Next steps

To learn how Rapita Systems can help reduce the cost and effort of your software verification, visit our website, rapitasystems.com.

To enquire directly, contact us at info@rapitasystems.com.



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