Software verification for ANSYS® SCADE® projects with R**VS**

R**VS** helps you supplement the evidence you need to verify critical software developed using ANSYS® SCADE® models.

Back-to-back testing lets you use tests from ANSYS® SCADE Test™ in PIL and HIL test environments, and R**VS** supports on-host and on-target verification of hand-written code in projects using model-based development with SCADE.

Back-to-back testing (SIL, PIL and HIL)

By automatically interpreting and executing your model-based tests against generated source code for both on-host and on-target testing, Rapi**Test** improves efficiency by letting you reuse tests written in SCADE Test through all phases of the verification life cycle. This lets you supplement your model-based tests with additional testing of manually-coded components (low-level drivers, for instance) within a unified testing framework. If your SCADE Test tests are linked to requirements, this information is interpreted by Rapi**Test** and added to your R**VS** reports.

While running your existing SCADE Test tests, you can also collect execution time metrics with Rapi**Time** to support worst-case execution time analysis.

Verification of additional code

R**VS** can be used to verify additional hand-written code in projects using model-based development with SCADE on-host and on-target.

Rapi**Test** supports functional testing, Rapi**Cover** provides structural coverage analysis, Rapi**Time** supports worst-case execution time analysis, and Rapi**Task** helps you investigate the scheduling behavior of your code.

Verification results from model-based and non-model code can be easily merged to produce a combined report for certification, and DO-330 qualification kits provide the evidence you need to qualify R**VS** tools according to DO-178C.
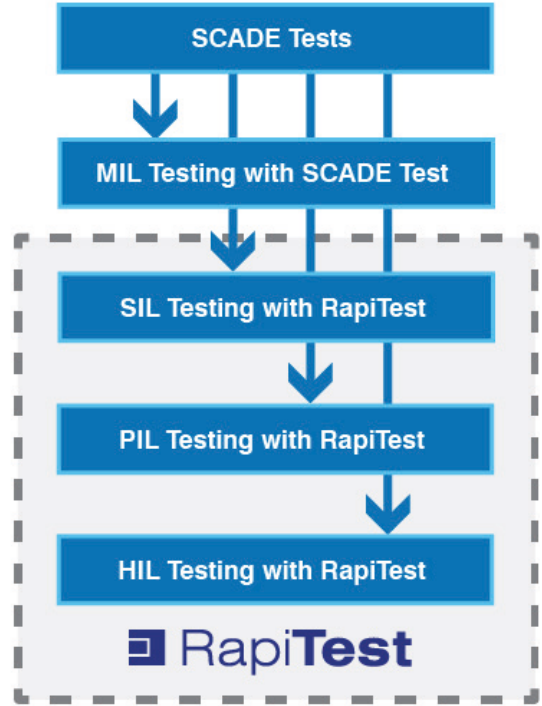
*Back-to-back testing with SCADE Test and Rapi**Test***

Supported test formats

R**VS** Back-to-back testing supports SCADE Test `.sss` and `.csv` test formats.

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