

Reactis V2024

Released June 5, 2024



Improved Static Analysis and Test Coverage

Improvements to Tester engine

- Identify more unreachable targets
- Exercise more coverage targets

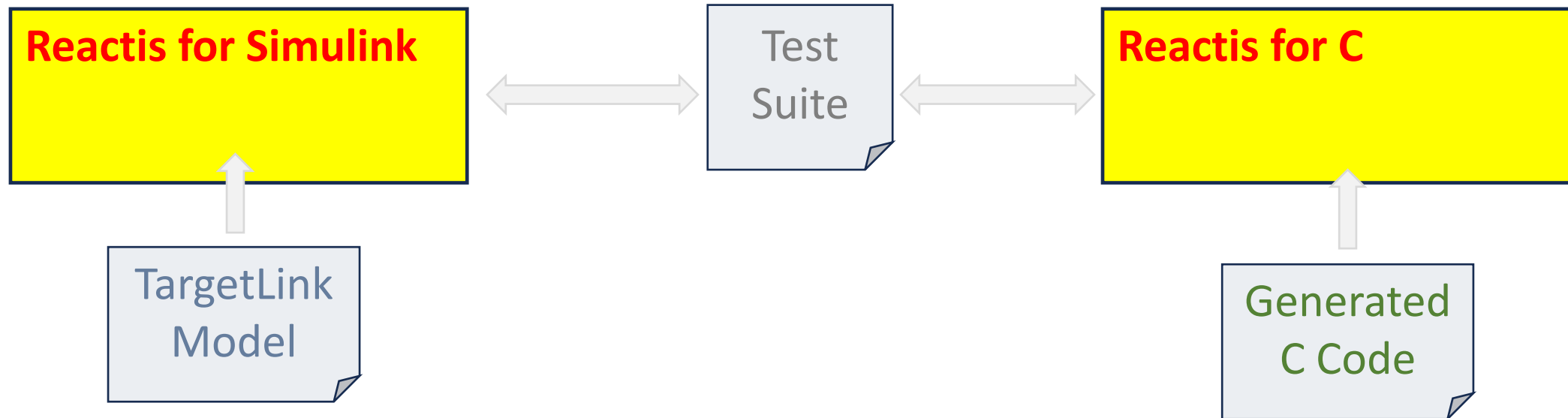
Especially when

- Tracing signals through Bus Creator and Bus Selector blocks
- Tracing through individual elements of arrays (Mux/Demux blocks)
- Tracing through assignments to local variables in Stateflow charts
- Tracing through array indexing and record selection in Stateflow charts

Reactis for Simulink API on Linux[®]

- Ubuntu[®] 22.04 LTS
- Automate running Reactis for Simulink[®]
- Dockerfile helps install Reactis API in Docker container (in which MATLAB[®] already installed)

Co-simulation of TargetLink[®] Models and Code



- Clicking TargetLink block highlights corresponding C code and vice versa
- Setting breakpoint on block also sets breakpoint on corresponding code and vice versa
- Step through test suite in sync, observe data values, track coverage

Newly Supported Simulink Features

- **MATLAB R2024a.**

New Embedded MATLAB (EML) Support

- Element-wise logical operators | and &.
- The **det** function.
- More variations of the if-then-else syntax, including empty command lists, a constant as the guard, and an if statement all in one line.
- More use cases of the **end** keyword for indexing vectors or matrices.
- Empty end-of-line comments.
- In a function definition, a line continuation ... immediately following the **function** keyword.

Option to Not Highlight Uncovered Targets

In Simulator, **Coverage** menu now includes entry **Highlight Uncovered Targets** to toggle highlighting of uncovered targets.

Why?

- More easily identify *unreachable* targets
- In hierarchy panel, subsystems with unreachable targets are purple

Reactis for C Updates

- During harness import, automatically match names in TargetLink-generated code
- Synchronize a harness with a .rsi file