



## Integration for Statemate

- TRACE32 Serves as GBA Driver
- Tracking States and Diagrams Right at the Target
- Attach GBA to a Running Target
- Running GBA on an Instruction Set Simulator

The TRACE32 debuggers include an interface for external access to TRACE32 systems (API). The interface can be used to integrate with other development tools like editors, CASE tools or source configuration management systems.

Our software package contains a ready-to-run integration to Statemate / Rhapsody in MicroC from I-Logix.

Statemate / Rhapsody in MicroC contains a 'Graphical Back Animation' (GBA), which allows to animate the states, in which the target currently works. Statemate highlights the relevant objects in the appropriate state chart. TRACE32 can serve as a communication channel, allowing you to inspect and animate the states inside the real target.

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## Integration of Statemate and the TRACE32 Debugger

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### TRACE32 Serves as GBA Driver

Statemate / Rhapsody in MicroC provides a mechanism to display the actual state of the target, by instrumenting the code and reading the appropriate values in the target. This is called "Graphical Back Animation"

(GBA). To do so, the GBA server in Statemate needs an actual connection with a GBA driver. TRACE32 can be used to drive this connection, to allow Rhapsody collect all information from the target to do its GBA.

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### Tracking States and Diagrams Right at the Target

Instead of simulating the target with an host based application, you can now use your actual target to track the state diagrams. Real external events can

trigger your application, and you can examine the behaviour of your real target.

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### Attaching GBA to a Running Target

You let your target running, and it falls into a blocking state, but you don't know which? The TRACE32 GBA driver gives you the ability to run the target without Statemate, but attaching

to it at any time you want, without restarting the target. Just start the Statemate GBA and the TRACE32 GBA driver, and you'll see immediately, at which states your target is stuck.

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### Running GBA on an Instruction Set Simulator

TRACE32 debuggers are also available as Instruction Set Simulators. A limited version can be downloaded at the Lauterbach home page. Using those, you can compile and link your application

for the actual microcontroller, but still simulating the run in your PC. Of course, GBA works on that simulators, too.

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