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## Integration to LabVIEW

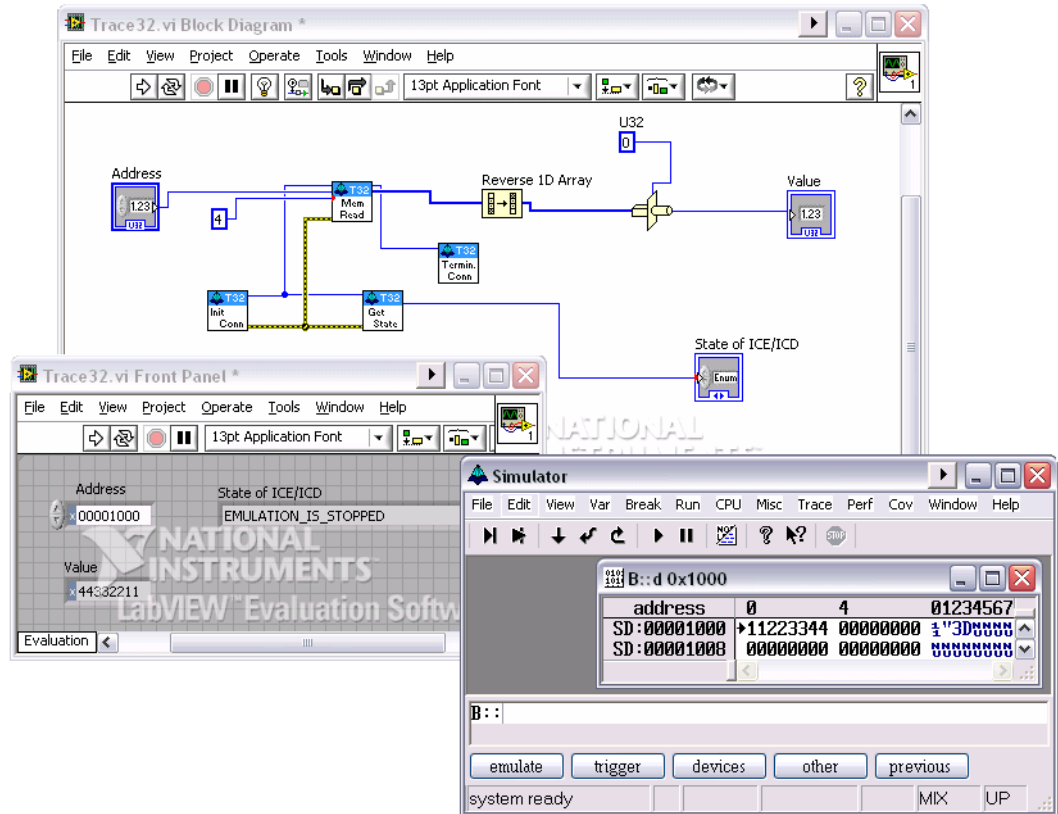


- Virtual Instruments in LabVIEW for TRACE32
- Control Target Execution within LabVIEW
- Use Memory Accesses as Input or Output Channels
- Use Target Hardware as Data Processing Unit
- No Need for External Communication Interface

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 LabVIEW from National Instruments. The integration includes several implementations of the TRACE32 API as virtual instruments within LabVIEW, to give full target control without an external interface.

## Integration to LabVIEW



### Virtual Instruments in LabVIEW for TRACE32

The integration offers a wide range of ready-made virtual instruments for LabVIEW, allowing a quick and easy access to the TRACE32 API functions.

Using these virtual instruments, complex test and data processing scenarios are available by using the debugger as controlling unit and communications channel.

### Control Target Execution within LabVIEW

You can use LabVIEW to control the target run with TRACE32. Other VIs connected to the TRACE32 Run Control VI can run or halt the target execution,

single step or set and remove breakpoints. This allows to implement a complete case scenario within LabVIEW.

## Use Memory Accesses as Input or Output Channels

Special VIs to read and write memory on the target using the debugger allows to insert or read variables and data to/

from the target device. Thus you get full control to the data processed by your device.

## Use Target Hardware as Data Processing Unit

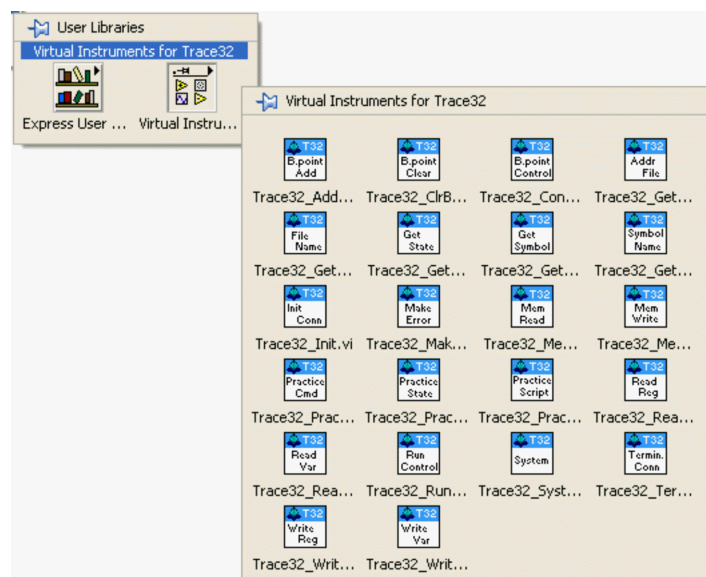
By using the TRACE32 VIs, the target device can be used as data processing unit with arbitrary input and output parameters. Even tingle functions or

code portions could be fed and the results extracted with these VIs. The enables, for example, both, a “black box” and a “white box” test.

## No Need for External Communication Interface

For all accesses to the target, the TRACE32 VIs use the capabilities of the debugger, usually based on the JTAG interface. This means, that no

external communication interface (e.g. serial or Ethernet) is necessary to insert and extract data to or from the target.



TRACE32 virtual instruments

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