

Integration for EasyCase

All CPUs supported by TRACE32

68k

68hcxx

x86

C16x

PPC

ARM

H8

and many others...

- Debugging on Nassi-Shneidermann diagram level
- Easy and clear single step between structures and different levels
- Stepping into or over a function call
- Breakpoint setting/deleting
- Automatic loading of application source code with automatic positioning of cursor
- Easy finding of source code lines selected in TRACE32
- Additional Menu to Control TRACE32 from EasyCase Surface
- Start TRACE32 and Load Application within EasyCase
- Start/Stop Execution of Application
- Single Stepping inside Diagrams
- Setting/Deleting Breakpoints inside Diagrams
- Add/Delete Watch Variables
- Get actual Source Files for Editing
- **Free Demo available.**

The TRACE32 systems include an interface for external access to TRACE32 systems via windows sockets (API). The interface is based on a C library and could 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 for EasyCASE(C++) from BKR GmbH Nuernberg.

The integration between EasyCASE and the TRACE32 Debugger denotes a significant

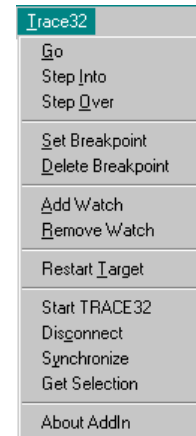
quality enhancement to the software engineering process. The TRACE32 development system with its proved advantages operates hand-by-hand with the ergonomomy and efficiency of EasyCASE.

This integration gives you the ability to debug inside a Nassi-Shneidermann diagram, e.g. single stepping, setting breakpoints, go/break and watch variables.

Integration of the TRACE32 Debugger and EasyCASE Tool

Additional Menu to Control the TRACE32 Debugger from EasyCASE

When integrating EasyCASE and TRACE32, you will find an additional menu in EasyCASE. This menu gives you the ability to control the TRACE32 Debugger from EasyCASE. With simple mouse clicks or key shortcuts, you can debug inside a Nassi-Shneidermann diagram.



Start TRACE32 and Load Application within EasyCASE

Once you set up your environment, you can start the TRACE32 debugger from EasyCASE and download your application. All that within EasyCASE,

so there is no need to switch the applications. Even a complete Edit/Compile/Load/Debug cycle is now possible inside EasyCASE.

Start/Stop Execution of Application

You can start and stop the execution of your application at any time you want. While the application runs, EasyCASE will be available as known. As soon as you stop the application, the source

file, in which the program has stopped, will be loaded automatically into EasyCASE, and the cursor will be positioned to the current source line.

Single Stepping Inside Diagrams

You're now able to single step inside a Nassi-Shneidermann diagram. It is possible to step over a function call, or to step inside the function, i.e. stepping in different structure levels. The appro-

priate structure will be loaded and displayed automatically. Even if the function, which is entered, is defined in another source file, this file will be loaded and positioned automatically.

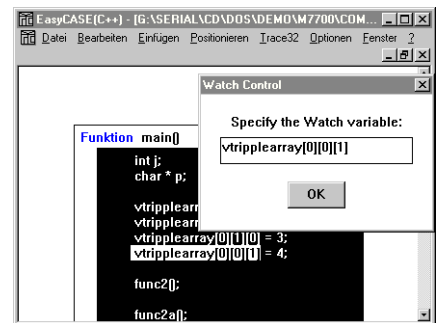
Setting / Deleting Breakpoints inside Diagrams

Breakpoints can be set and deleted directly in the diagrams. EasyCASE will display the lines, at which breakpoints are set, in red color. If you start your

application and a breakpoint is hit, EasyCASE will immediately show the appropriate structure element.

Add / Delete Watch Variables

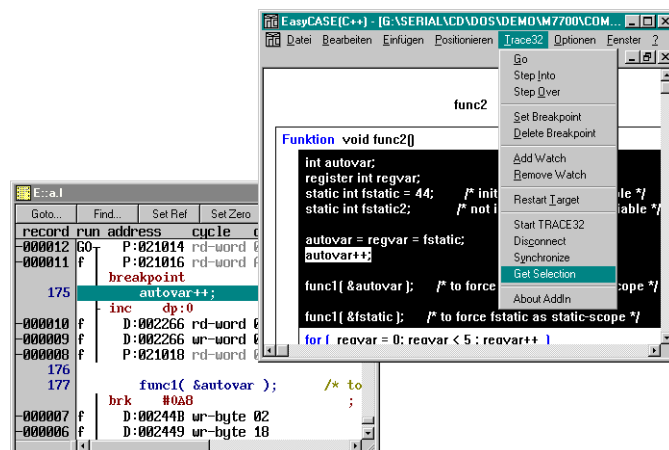
The integration gives you a convenient way to add or delete watch variables to a Watch window of the TRACE32 debugger. Just place the cursor inside a variable name, or highlight a HLL expression, and select "Add Watch". The upcoming message box will already contain your variable, and after confirming it, you will see your watch variables in the TRACE32 debugger



Get actual Source Files for Editing

You just debugged your application with the TRACE32 debugger, and now want to load the actual source into EasyCASE? Or - you found a bug by inspecting the analyzer trace list, and want to correct it? The integration allows you to highlight any source line

in TRACE32 (e.g. in the analyzer list window) and show this source in EasyCASE; just one mouse click, and EasyCASE loads automatically the appropriate file and displays the highlighted structure element.



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