

<u>Knowledgebase</u> > <u>TRACE32 PowerView</u> > <u>Can I debug and trace inline functions?</u>

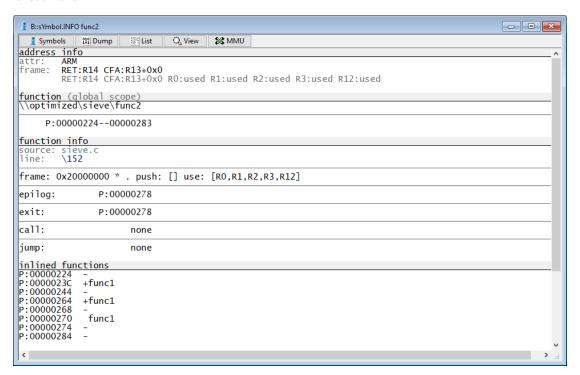
## Can I debug and trace inline functions?

2023-10-25 - Comments (0) - TRACE32 PowerView

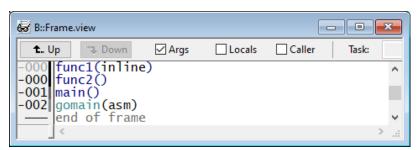
Inline functions are embedded inside the calling functions at each call site. They do not have a unique start address. Inline functions can be displayed in TRACE32 using the command **sYmbol.List.InlineFunction** 

The debugger can display some information about inline functions if the compiler provides information about inlining in the debug information.

The call sites of inline functions can be displayed in TRACE32 using the **sYmbol.INFO** command under "inlined functions". The following screenshot shows for instance that the function func1 has been inlined twice inside the function func2:



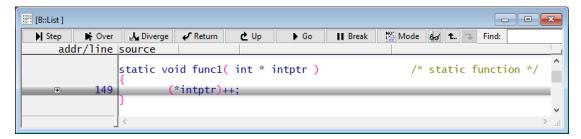
This information is used by the debugger in the function stack frame (Frame.view)

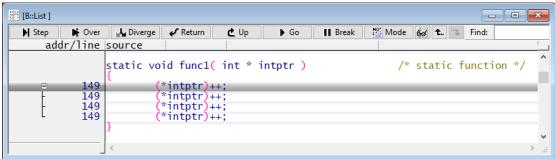


As the function does not have a unique start address, it is however not possible to set a breakpoint at the function start. TRACE32 will show the error message "symbol not found"

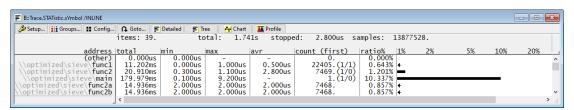


You can however set program breakpoints in single lines of inline function which have been translated into assembly code. If the function is inlined more than once, you will probably see a [+] sign which can be expanded to show the different calling points





TRACE32 additionally allows displaying runtime information about inline functions based on the trace results using the /INLINE option of the commands **Trace.STATistic.sYmbol**, **Trace.Chart.sYmbol** and **Trace.PROfileChart.sYmbol**. Refer for more information about these commands to <a href="https://www.lauterbach.com/pdf/general\_ref\_t.pdf">https://www.lauterbach.com/pdf/general\_ref\_t.pdf</a>



Refer for more information about debugging optimized code to the following video: <a href="https://support.lauterbach.com/kb/articles/debugging-optimized-code-in-trace32">https://support.lauterbach.com/kb/articles/debugging-optimized-code-in-trace32</a>