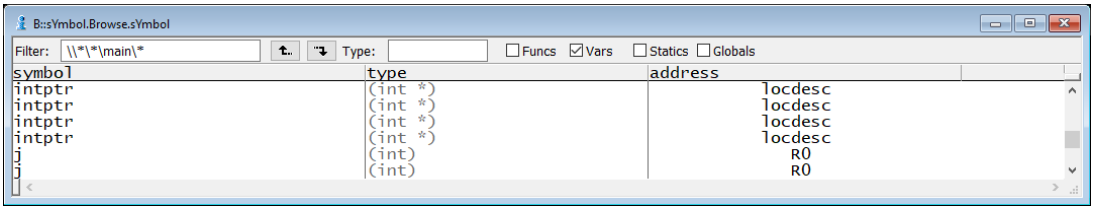
The address column of the sYmbol.Browse.sYmbol window contains "locdesc", what does this mean?

2022-01-05 - Comments (0) - TRACE32 PowerView

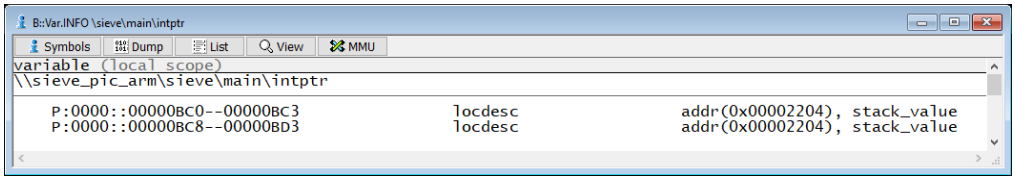


Each variable of a target application has some location where it is stored. Usually, the global and static variables have a fixed memory location while the local variables which exist only inside a function body are either stored in the stack frame of the corresponding function or in a general-purpose register.

With disabled compiler optimizations, each variable has only one single Location Description. If the single location description is also a simple location (like a fixed address, a general-purpose register, or a stack-frame offset) the resolved location is shown in the column "address" of the window **sYmbol.Browse**. In all other cases, **"locdesc"** is displayed in that column.

So, you see **"locdesc"** in the following cases:

- There is more than one location for a variable. This can happen with enabled compiler optimizations. If you execute the command **Var.INFO < *varname* >** (or right mouse click the varialble then select other > View Info), you can see the various locations of the variable together with a program address range. (When the program counter is inside that program address range, the related location is valid for the variable.)



- At least one of the location descriptions can't be resolved to an address, a general-purpose register, or a stack-frame offset.