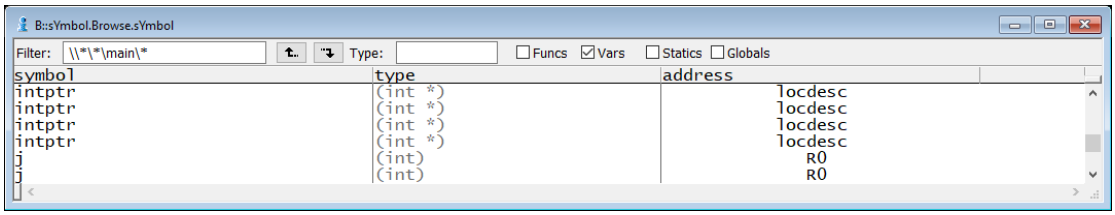
The address column of the sYmbol.Browse.sYmbol window contains "locdesc", what does this mean?

2026-07-30 - Comments (0) - TRACE32 PowerView



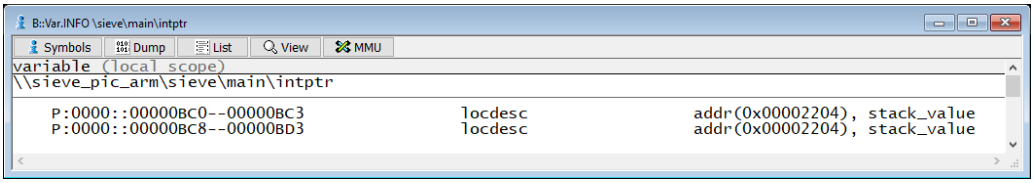
Every variable in a target application has a location where it is stored. Typically:

- **Global and static variables** have fixed memory addresses.
- **Local variables** (inside a function body) are stored either in the stack frame of that function or in a general-purpose register.

When compiler optimizations are disabled, each variable has a single *Location Description*. If this description resolves to a simple location (such as a fixed address, register, or stack-frame offset), the resolved location is displayed in the **address** column of the `sYmbol.Browse` window. In all other cases, the column shows *locdesc*.

You will see *locdesc* in the following situations:

- **Multiple locations per variable:** With compiler optimizations enabled, a variable may reside in different locations depending on the program counter. Use `Var.INFO <varname>` (or right-click the variable → *Other* → *View Info*) to see all valid locations along with their associated program address ranges. An example is shown in the following screenshot.



- **Unresolvable location descriptions:** At least one location cannot be resolved to a fixed address, register, or stack-frame offset.