

Switch off the precompilation

So that errors can already be displayed when coding in Codesys, there is the "precompiler", which underlines errors in the editors.



The precompiler does not generate any code!!!
Therefore, the message of the build process are the decisive ones

Unfortunately, there can be different displays between the precompilation and the actual compilation process (as demonstrated in the following example with the compiler version V3.5.16.30).

The screenshot shows the Siemens STEP 7 IDE. On the left, the 'Devices' tree is expanded to 'PLC_PRG (PRG)'. The main editor displays a ladder logic program for 'PLC_PRG'. The program includes a variable declaration section with 'ref1' as a reference to an integer, 'il' as an integer set to 1, 'xSwitch' as a boolean, and 'iCnt' as an integer. The logic consists of two conditional blocks. The first block checks if 'xSwitch' is not true; if so, it sets 'ref1' to 0. Otherwise, it sets 'ref1' to 'il'. The second block checks if 'ref1' is an invalid reference; if so, it increments 'iCnt' by 'ref1'. The status bar at the bottom indicates 'Messages - Total 1 error(s), 0 warning(s), 0 message(s)'. A dropdown menu is set to 'Precompile', and a red box highlights the '1 error(s)' count. The error description is 'C0032: Cannot convert type 'BIT' to type 'INT''.

It's a bug!!

The screenshot shows the same Siemens STEP 7 IDE environment. The main editor displays the same ladder logic program. The status bar at the bottom indicates 'Messages - Total 1 error(s), 0 warning(s), 0 message(s)'. A dropdown menu is set to 'Build', and a red box highlights the '0 error(s)' count. The error description is 'The application is up to date' and 'Build complete -- 0 errors, 0 warnings : Ready for download'.

The generated code is OK

If desired, the precompiler can be switched off via the option "Tools\Options...\SmartCoding\Underline errors in the editor".

Options



- FBD, LD and IL editor
- Help
- International Settings
- Libraries
- Library download
- Load and Save
- Monitoring
- PLCopenXML
- Proxy Settings
- Refactoring
- Runtime Deploy Tool
- SFC editor
- SmartCoding**
- Store
- Text editor
- Visualization
- Visualization styles

SmartCoding

- ☒ Declare unknown variables automatically (AutoDeclare)
 - ☐ Enable for ST editor
- ☐ Show all instance variables in input assistant
- ☐ Show symbols from system libraries in input assistant
- ☒ List components after typing a dot (.)
 - ☐ List components immediately when typing
 - ☐ Insert with namespace
- ☒ Convert keywords to uppercase automatically (AutoFormat)
- ☒ Automatically list selection in cross reference view
- ☒ Underline errors in the editor
- ☒ Highlight symbols