

Title: What does the “E2005 the field offset exceeds the limit” compile error mean?

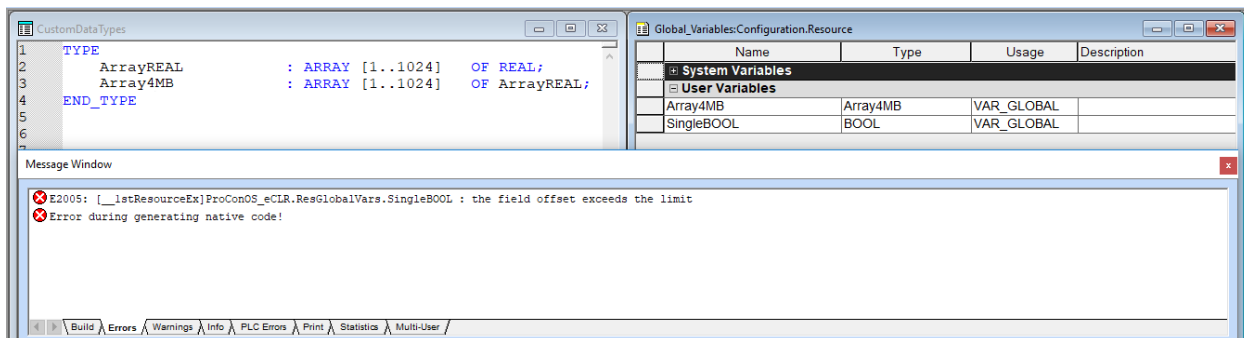
Product(s): MP3300iec, MotionWorks IEC

Doc. No. CNT-QGDCJK

This error typically occurs when large User Defined Datatypes are declared. It means that at least one variable declaration exceeded the limit for Global Variables or a POU.

MotionWorks IEC will specify which variable caused it. See the screen shot below, the E2005 error mentions the variable “SingleBOOL”. The limit is 4MB for Global Variables and 4MB each POU Variable Worksheet. This limit does not mean that 4MB is the maximum size for all variable space however. The limit refers to the reference point (head address) where the variable is located. Any variables declared beyond the 4MB limit will cause this error. Placing the largest structure as the last variable declaration in the variable list typically permits the project to be compiled without error.

Compile error because the head address for “SingleBOOL” is declared outside of 4MB



Compile without errors as long as the head address is declared inside the 4MB limit

