







McStas

School

Advanced language features 1

Macros and tricks for your instrument...

DECLARE and INITIALIZE







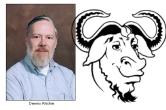
DECLARE / INITIALIZE

- Use the DECLARE section define user variables and functions.
 - DECLARE %{
 - double myvar;
 - %}
- Use INITIALIZE for initialization of user variables and calculations.
 - INITIALIZE %{
 - myvar = sqrt(PI*input_var)*rand01();
 - %}
- Both use normal c-syntax.
- BEWARE: (example) What you do in the c-style areas is c-standard, e.g. trigonometric functions from math.h use radians! - McStas placement specifiers work in degrees, etc...



K & R. / GNU









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%include

- Instrumentfiles can include external c-code or other instrumentfiles... See the examples:
- ILL_H15_IN6.instr:%include "monitor_nd-lib"
- ILL_H16_IN5.instr:%include "ILL_H16.instr"
- ILL_H25_IN22.instr:%include "ILL_H25.instr"
- ILL_H25_IN22.instr:%include "templateTAS.instr"
- Used in the DECLARE section

