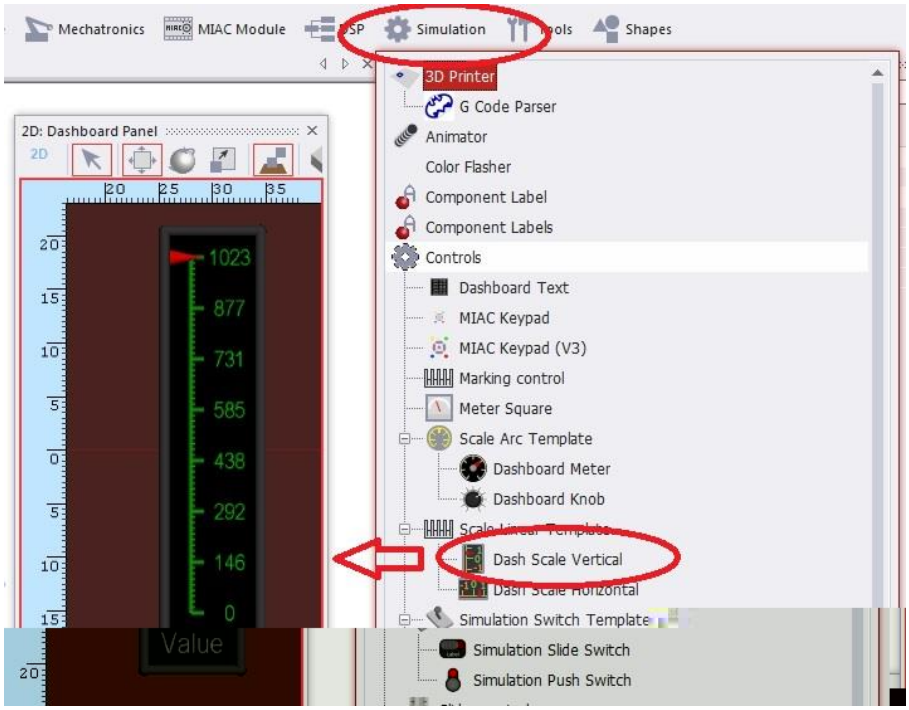
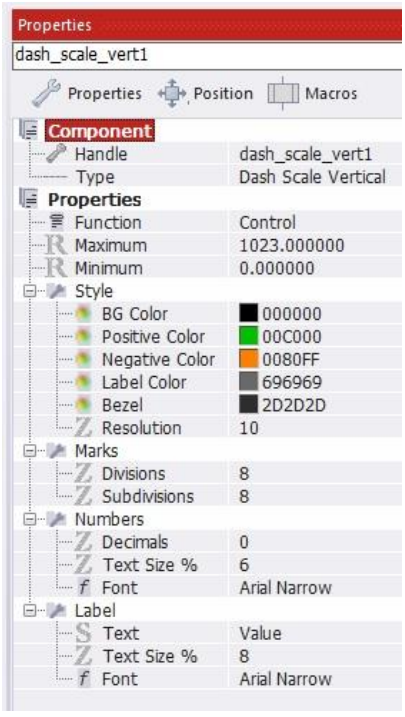
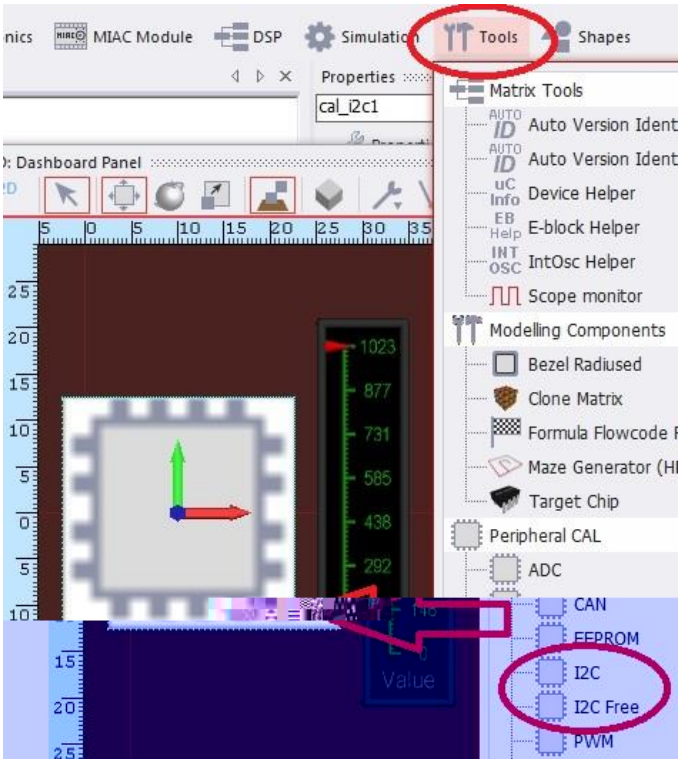
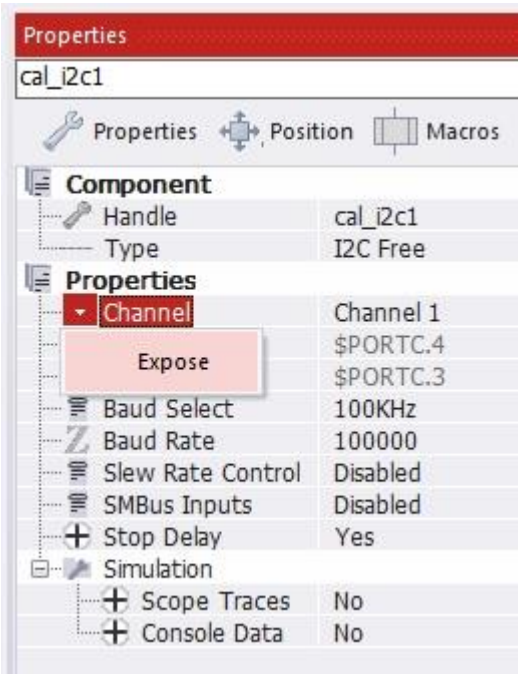
Example of creating a Flowcode 7 component for an I²C based device, such as a LM75B digital temperature sensor.

Building from components



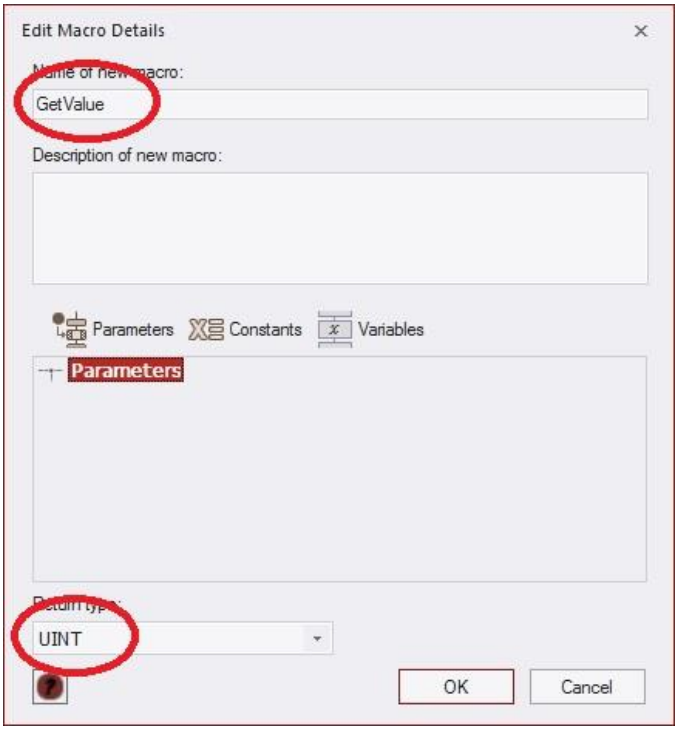


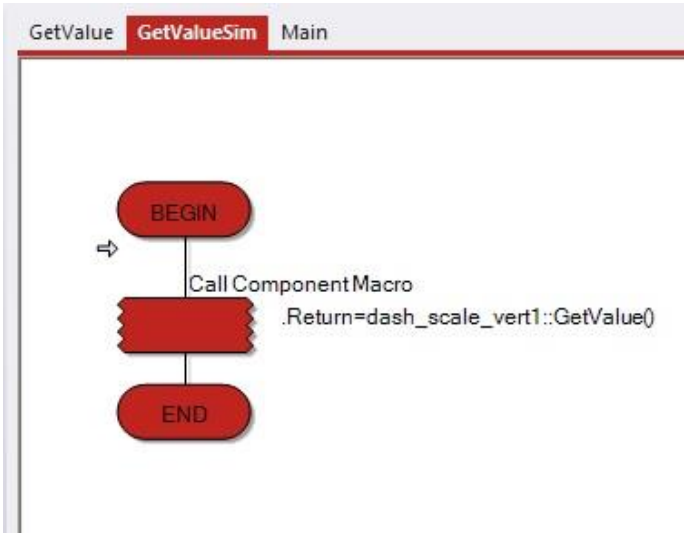

MIAC Module
DSP
Simulation
Tools
Shapes
Properties
cal_i2c1
Dashboard Panel
Matrix Tools
Auto Version Ident
Auto Version Ident
Device Helper
E-block Helper
IntOsc Helper
Scope monitor
Modelling Components
Bezel Radiused
Clone Matrix
Target Chip
Peripheral CAL
ADC
CAN
EEPROM
I2C
I2C Free
PWM
1023
877
731
585
438
292
Value


Properties
cal_i2c1
Properties
Position
Macros
Component
Handle
cal_i2c1
Type
I2C Free
Properties
Channel
Channel 1
Expose
$PORTC.4
$PORTC.3
Baud Select
100KHz
Baud Rate
100000
Slew Rate Control
Disabled
SMBus Inputs
Disabled
Stop Delay
Yes
Simulation
Scope Traces
No
Console Data
No

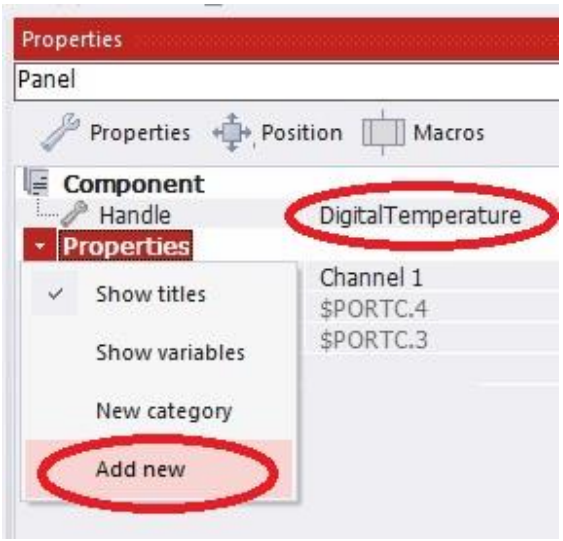
-
-
-

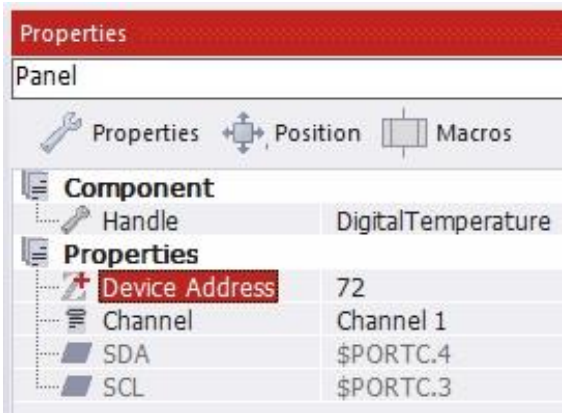
Creating the component interface



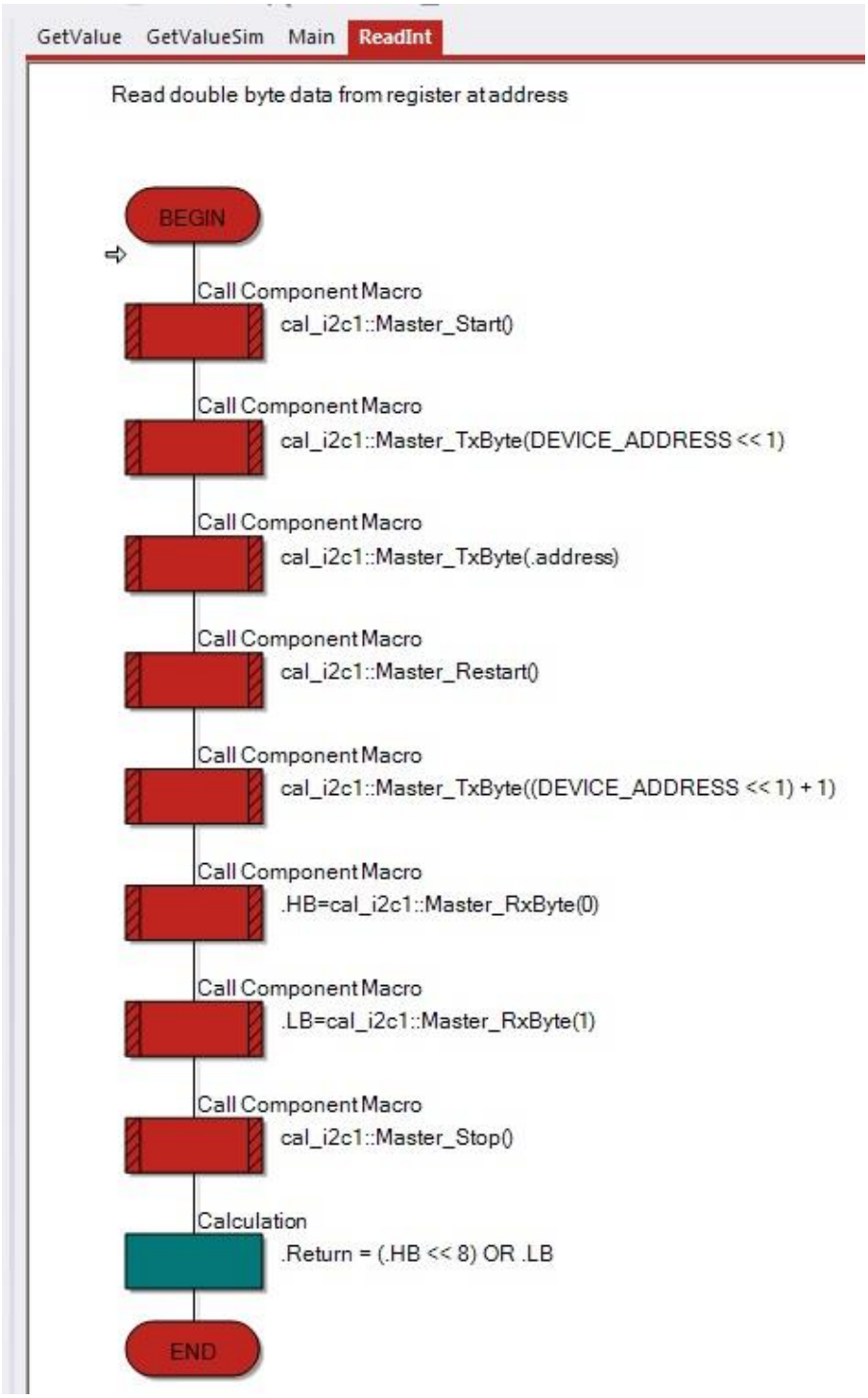


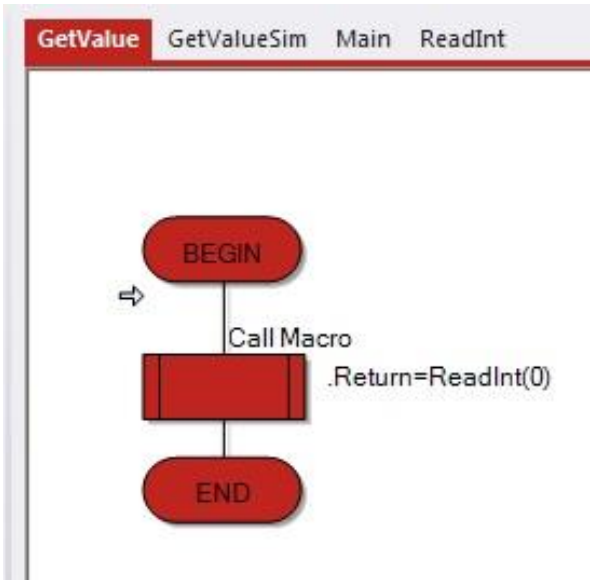
Creating additional component properties

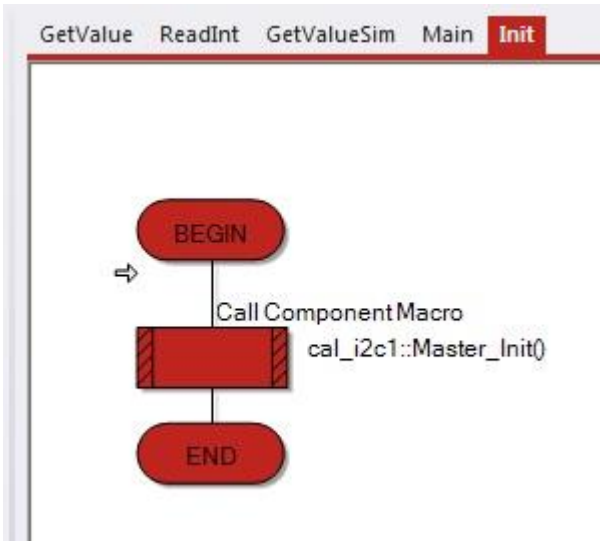




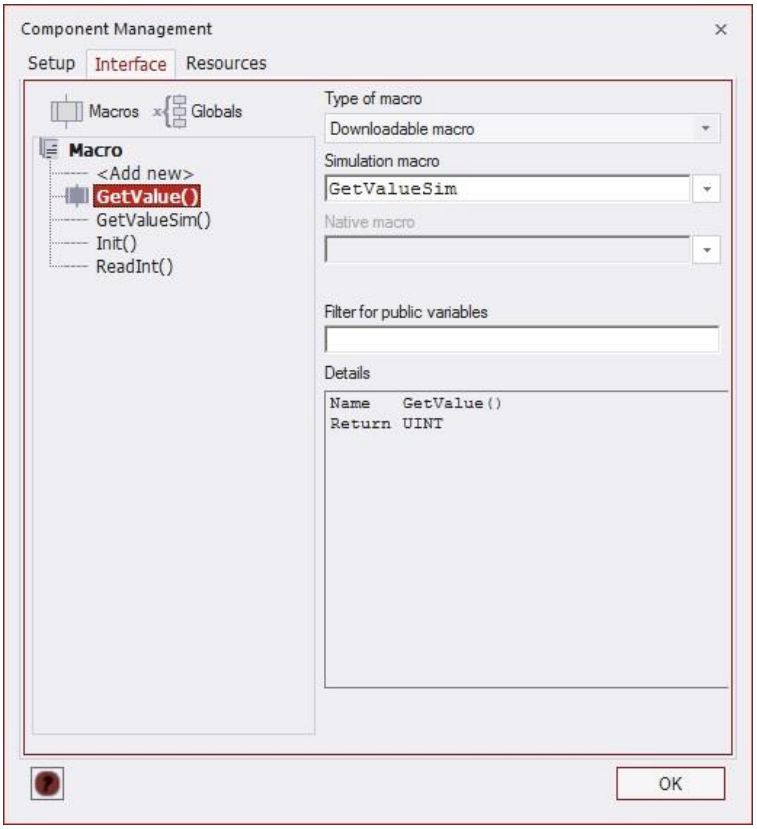
Completing the component macros

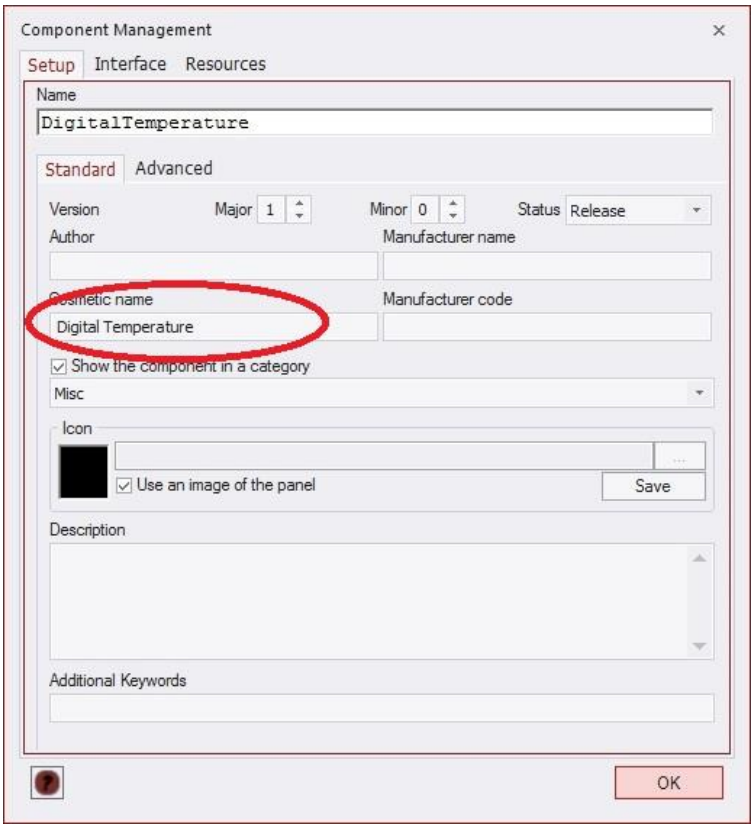


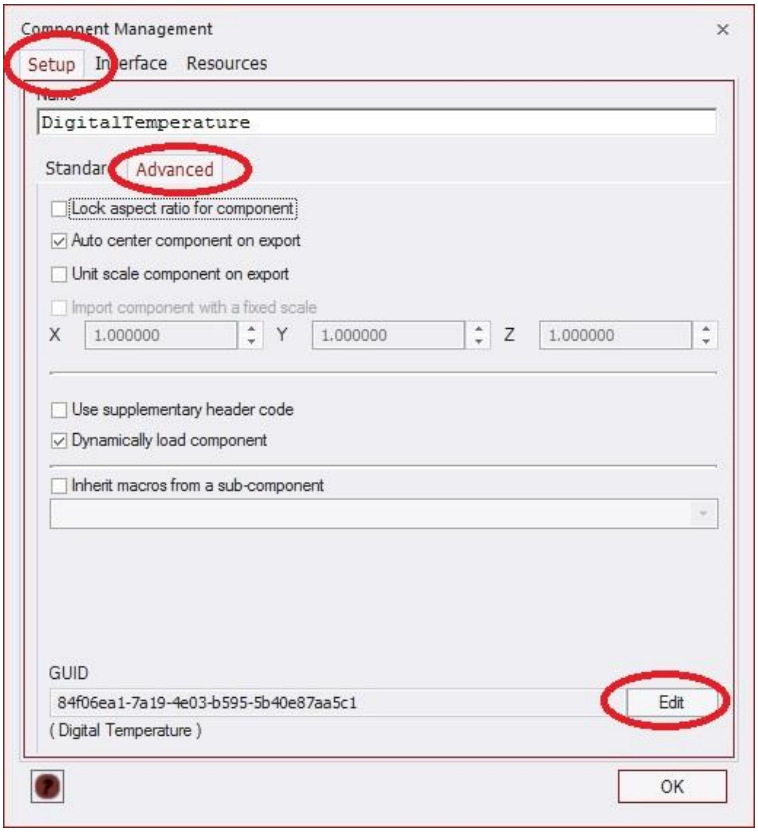

GetValue
GetValueSim
Main
ReadInt
BEGIN
Call Macro
.Return=ReadInt(0)
END

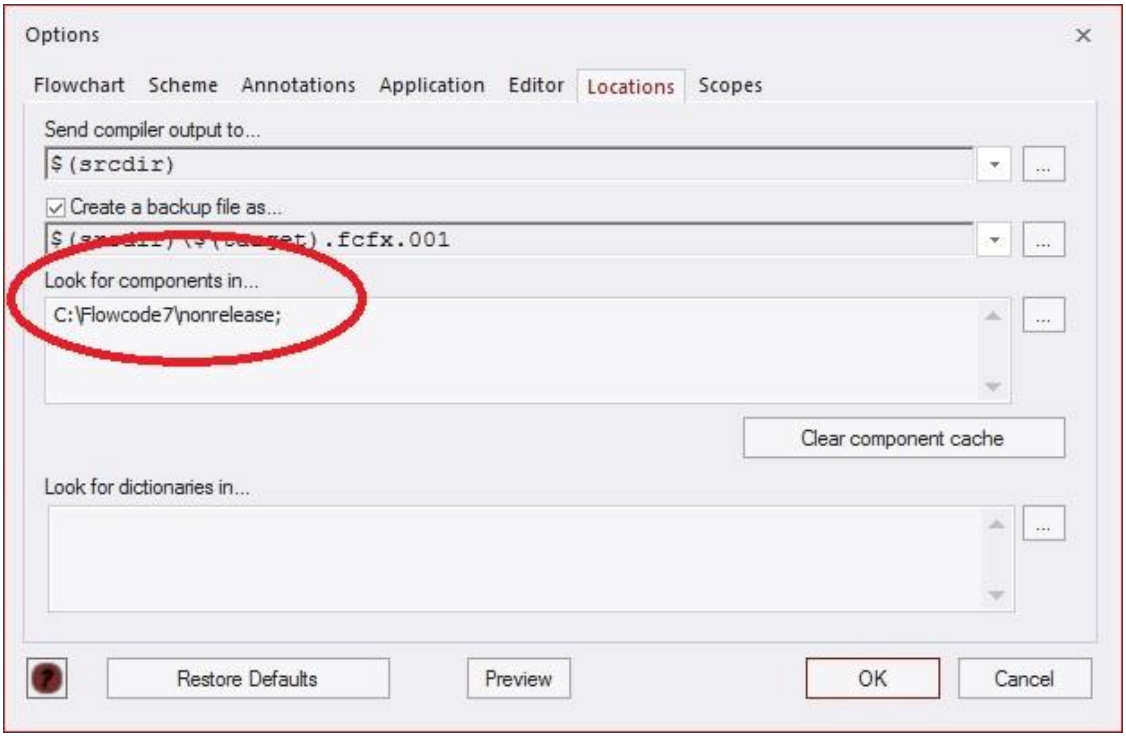

GetValue
ReadInt
GetValueSim
Main
Init
BEGIN
Call Component Macro
cal_i2c1::Master_Init()
END

Exporting the component






Component Management
Setup
Interface
Resources
DigitalTemperature
Standard
Advanced
Lock aspect ratio for component
Auto center component on export
Unit scale component on export
Import component with a fixed scale
X
1.000000
Y
1.000000
Z
1.000000
Use supplementary header code
Dynamically load component
Inherit macros from a sub-component
GUID
84f06ea1-7a19-4e03-b595-5b40e87aa5c1
Edit
(Digital Temperature)
OK


Options
Flowchart
Scheme
Annotations
Application
Editor
Locations
Scopes
Send compiler output to...
$(srcdir)
Create a backup file as...
.fcfx.001
Look for components in...
C:\Flowcode7\nonrelease;
Clear component cache
Look for dictionaries in...
Restore Defaults
Preview
OK
Cancel

Advanced options