This sample demonstrates specifying configuration points on components. It's an extension to the previous basic sample, Using XML .

Project name: "E.Configuration"

For information on how to get the code, and run the sample, please see About Basic Samples .

Description

The functionality and composition of this sample is exactly the same as the previous sample . But configuration points are added to the components in order to turn Verbose mode on or off.

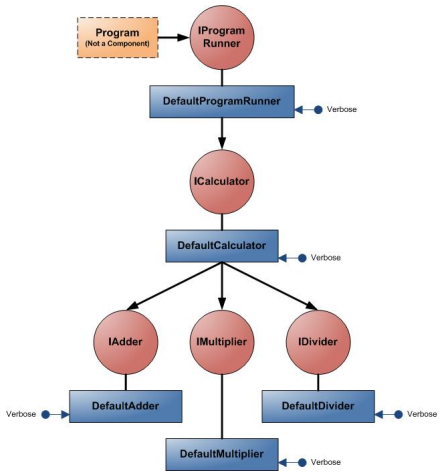
The configuration points are declared with the name "Verbose" (of type bool) on all five components in the project:

- DefaultProgramRunner
- DefaultCalculator
- DefaultAdder
- DefaultMultiplier
- DefaultDivider

For setting the configuration, the same composition XML file used as the previous sample, called CalculatorComposition.xml. Component implementations are changed so that they print more verbose messages on the screen if the Verbose property is set to true.

Note that the configuration points are marked as optional, so that if the configuration is not provided for the component, it still can work, and it will have less verbosity on the output as if the Verbose property is set to false.

Dependency Diagram



Sample output

CONSTRUCTOR - DefaultProgramRunner
SET CONFIG - DefaultProgramRunner.Verbose
CONSTRUCTOR - DefaultCalculator
SET CONFIG - DefaultCalculator.Verbose
CONSTRUCTOR - DefaultAdder
SET CONFIG - DefaultAdder.Verbose
SET PLUG - DefaultCalculator.Adder
CONSTRUCTOR - DefaultMultiplier
SET CONFIG - DefaultMultiplier.Verbose
SET PLUG - DefaultCalculator.Multiplier
CONSTRUCTOR - DefaultDivider
SET CONFIG - DefaultDivider.Verbose
SET PLUG - DefaultCalculator.Divider
SET PLUG - DefaultProgramRunner.Calculator METHOD CALL - DefaultProgramRunner.Run() METHOD CALL - DefaultCalculator.Add(67, 12)
METHOD CALL - DefaultAdder.Add(67, 12)
67 + 12 = 79 METHOD CALL - DefaultCalculator.Subtract(67, 12)
METHOD CALL - DefaultAdder.Add(67, -12)
67 - 12 = 55 METHOD CALL - DefaultCalculator.Multiply(67, 12)
METHOD CALL - DefaultMultiplier.Multiply(67, 12)
67 * 12 = 804 METHOD CALL - DefaultCalculator.Divide(67, 12)
METHOD CALL - DefaultDivider.Divide(67, 12)
METHOD CALL - DefaultCalculator.Remainder(67, 12)
METHOD CALL - DefaultDivider.Remainder(67, 12)
67 / 12 = 5 (with remainder = 7)