


CFC - Continuous Function Chart

CoDeSys

Smart Software Solutions

We software Automation.




CFC - Continuous Function Chart

The Continuous Function Chart in extension to the IEC 61131-3 standard is a graphical programming language basing on the Function Block Diagram language.
However in contrast to that no networks are used but free positioning of graphic elements, which for example allows feedback loops.

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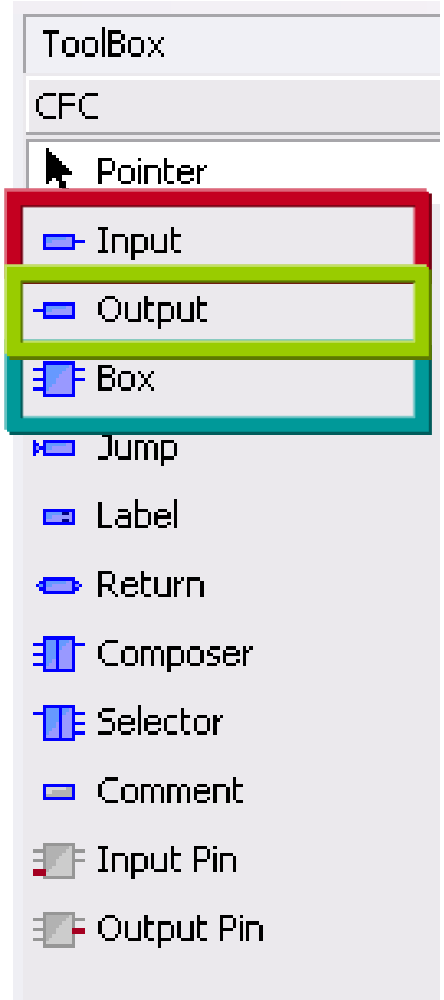
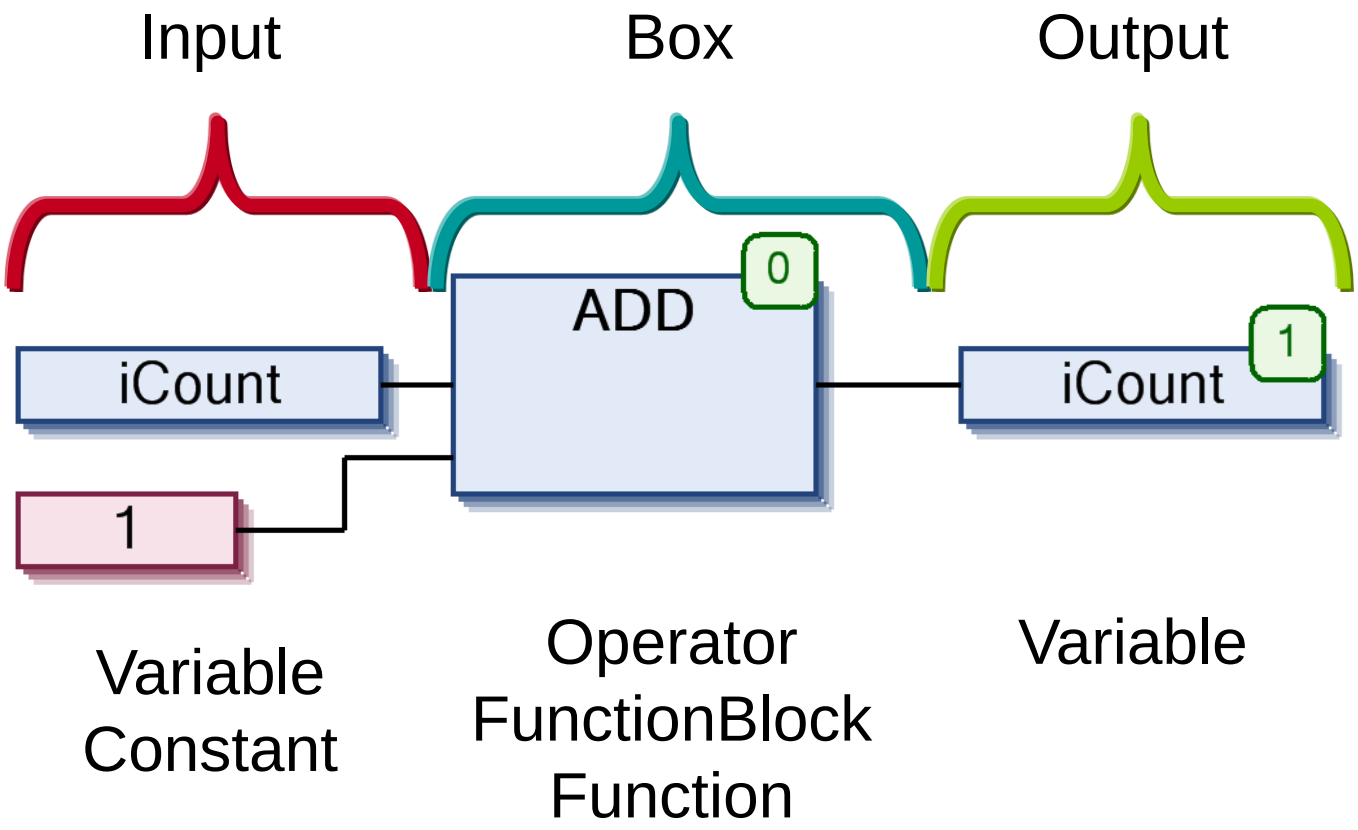
After this module you will …

- know the CFC elements
- be able to use the features of the CFC editor
- be able to develop programs in CFC language

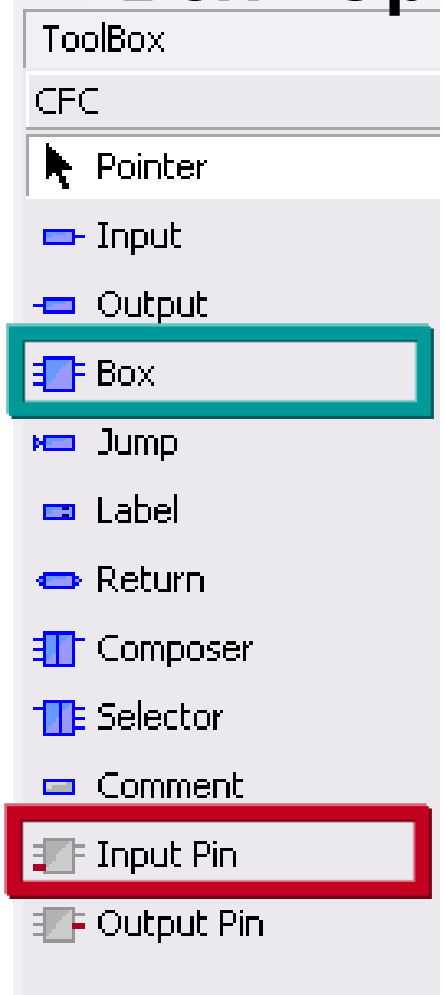
CFC Objects

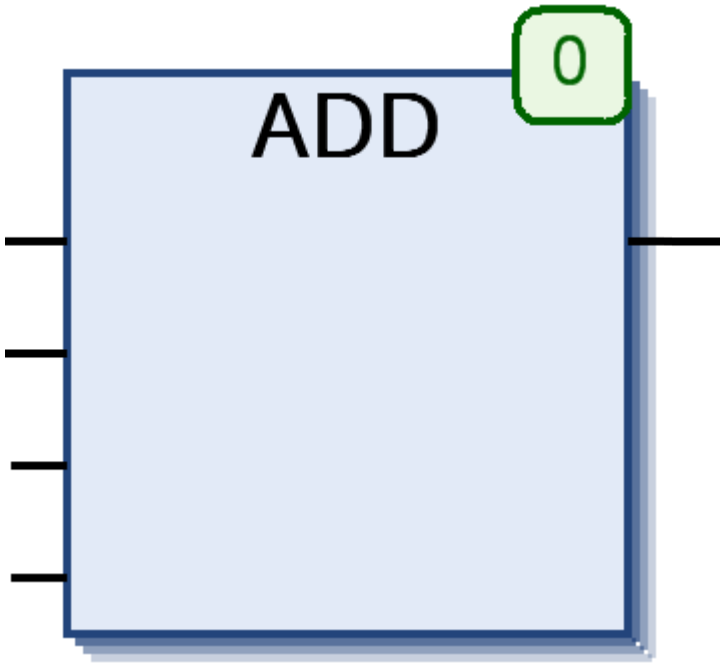




CFC Objects

Box - Operator

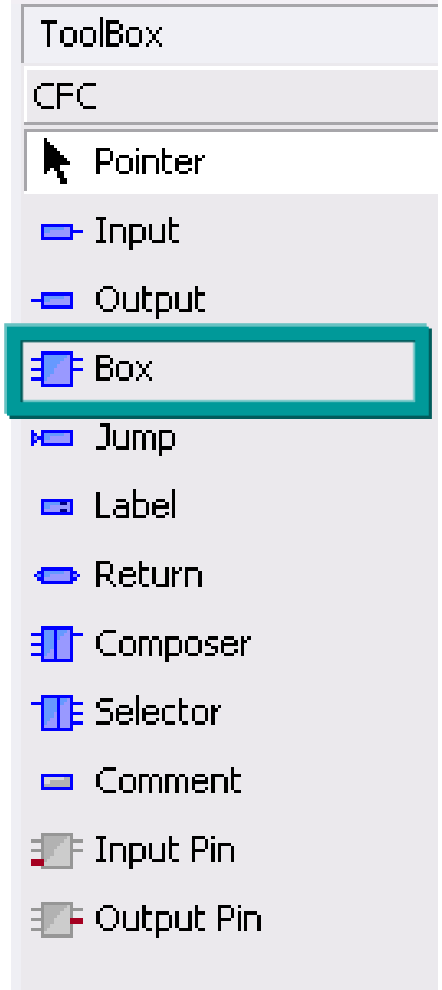


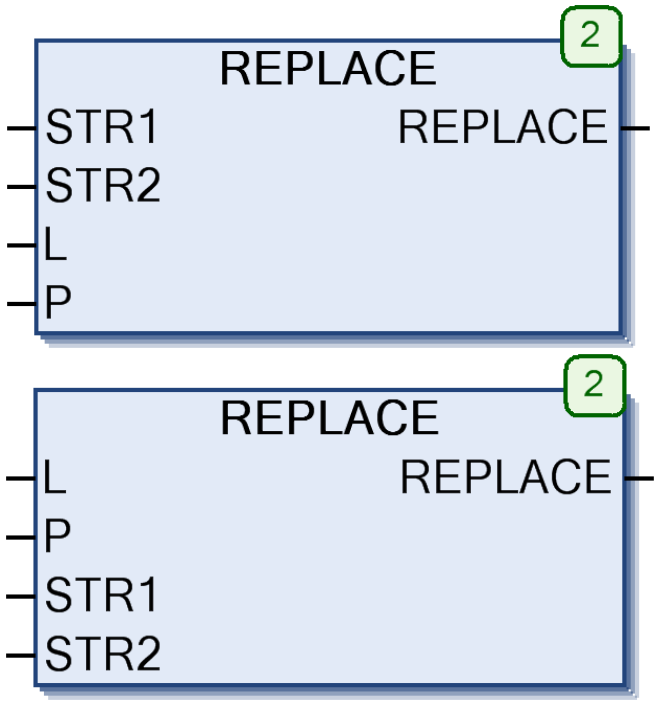


- Extendable by additonal inputs (if sensible)

CFC Objects

Box - Function

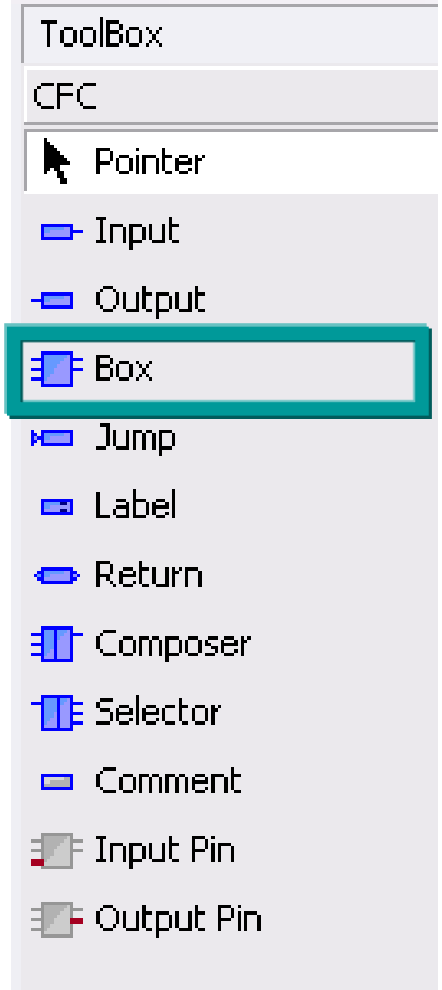


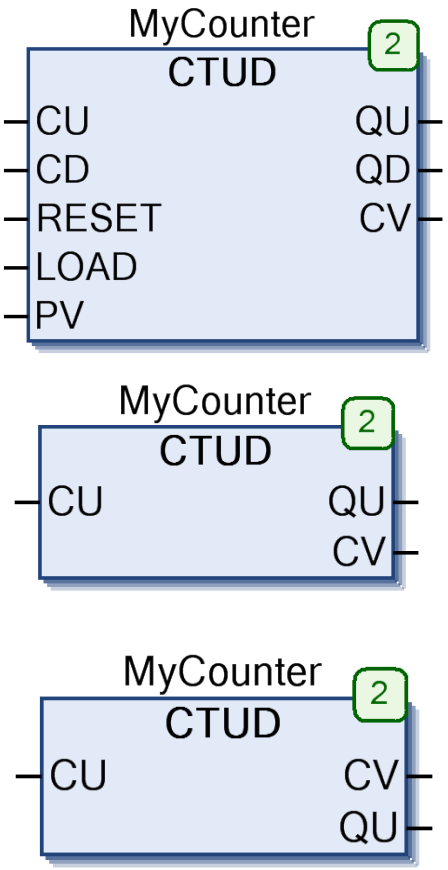


- Order of the inputs and outputs is changeabel

CFC Objects

Box - FunctionBlock

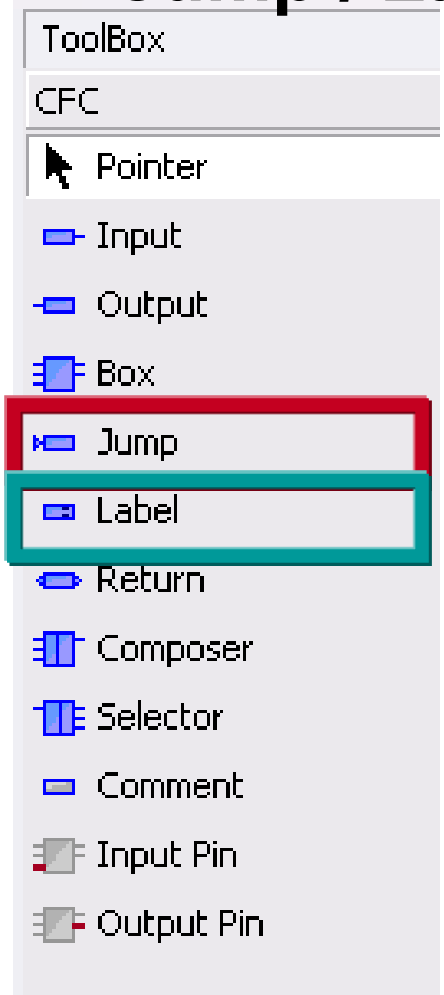


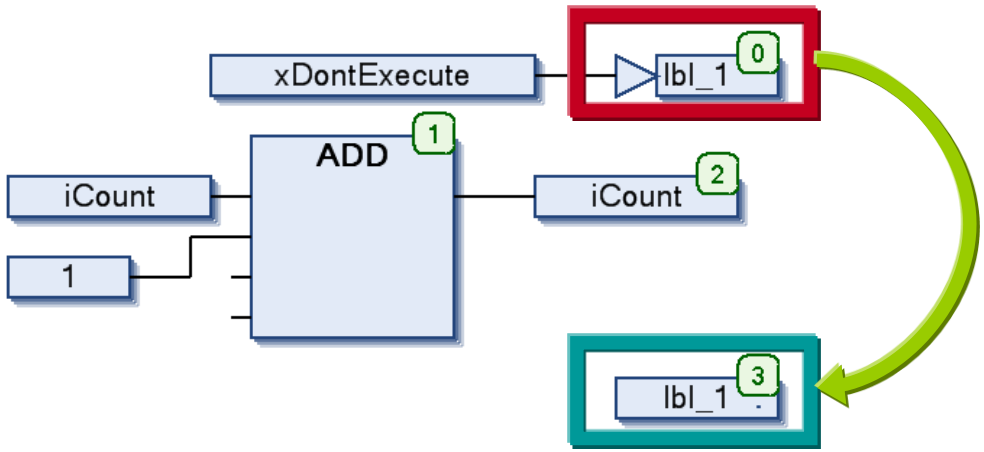


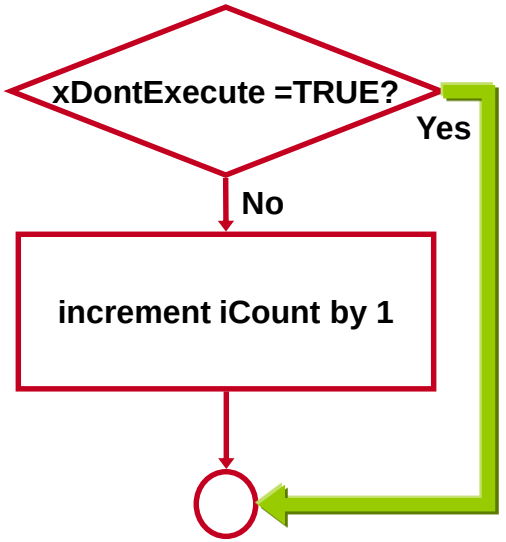
- Unused inputs and outputs can be deleted
- Order of the inputs and outputs is changeabel

CFC Objects

Jump / Label

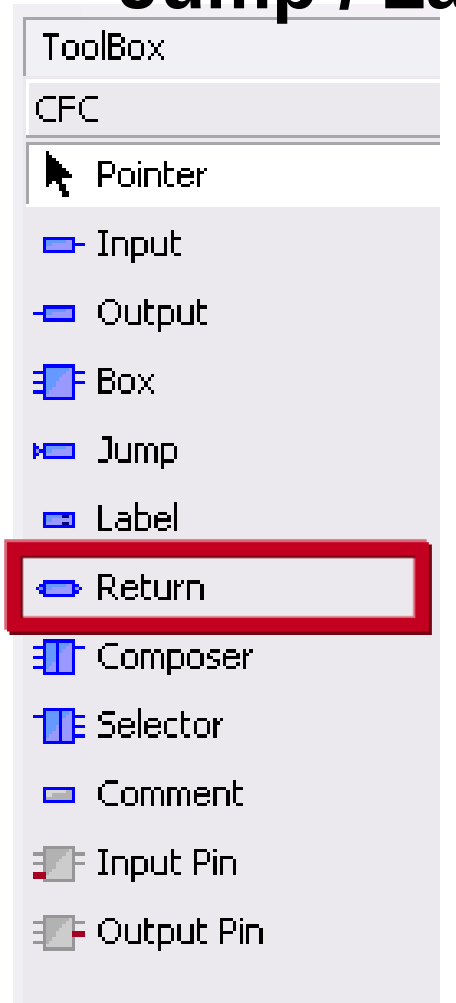






CFC Objects

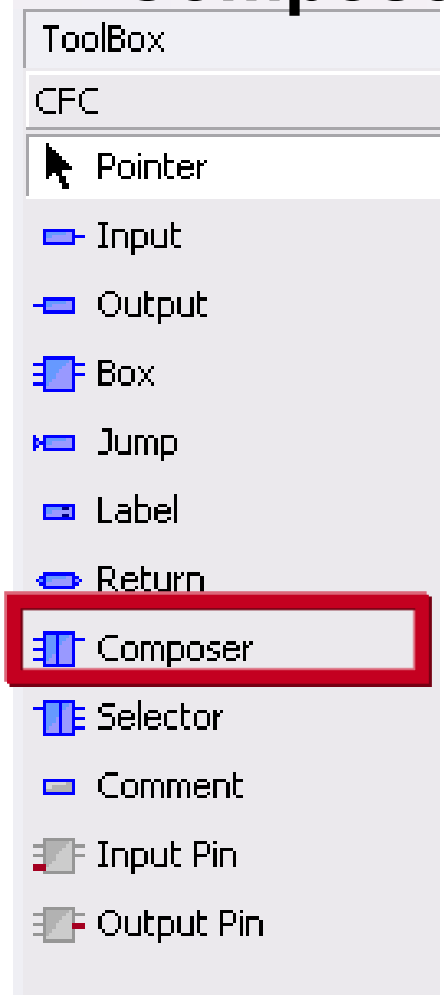
Jump / Label



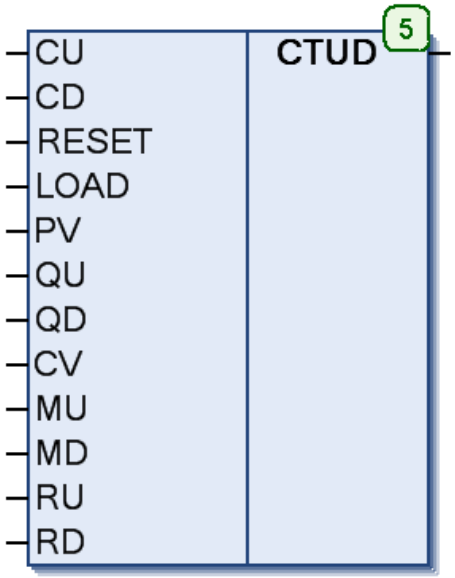
- Exits the POU

CFC Objects

Composer

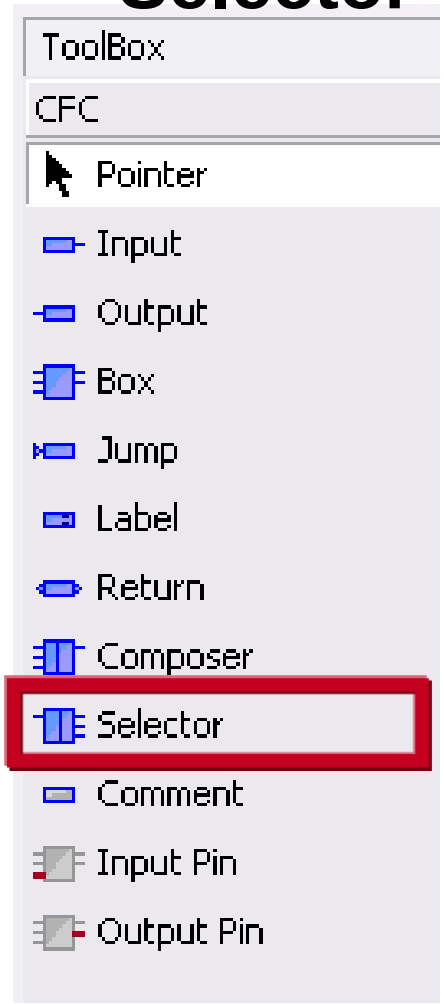


- A composer is used to handle an input of a box which is of type of a structure. The composer will display the structure components and thus make them accessible in the CFC for the programmer.

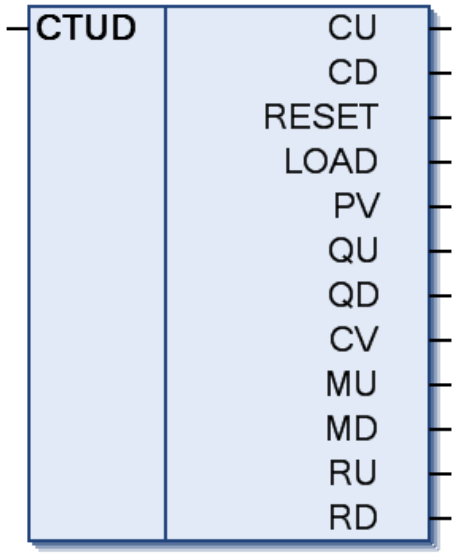


CFC Objects

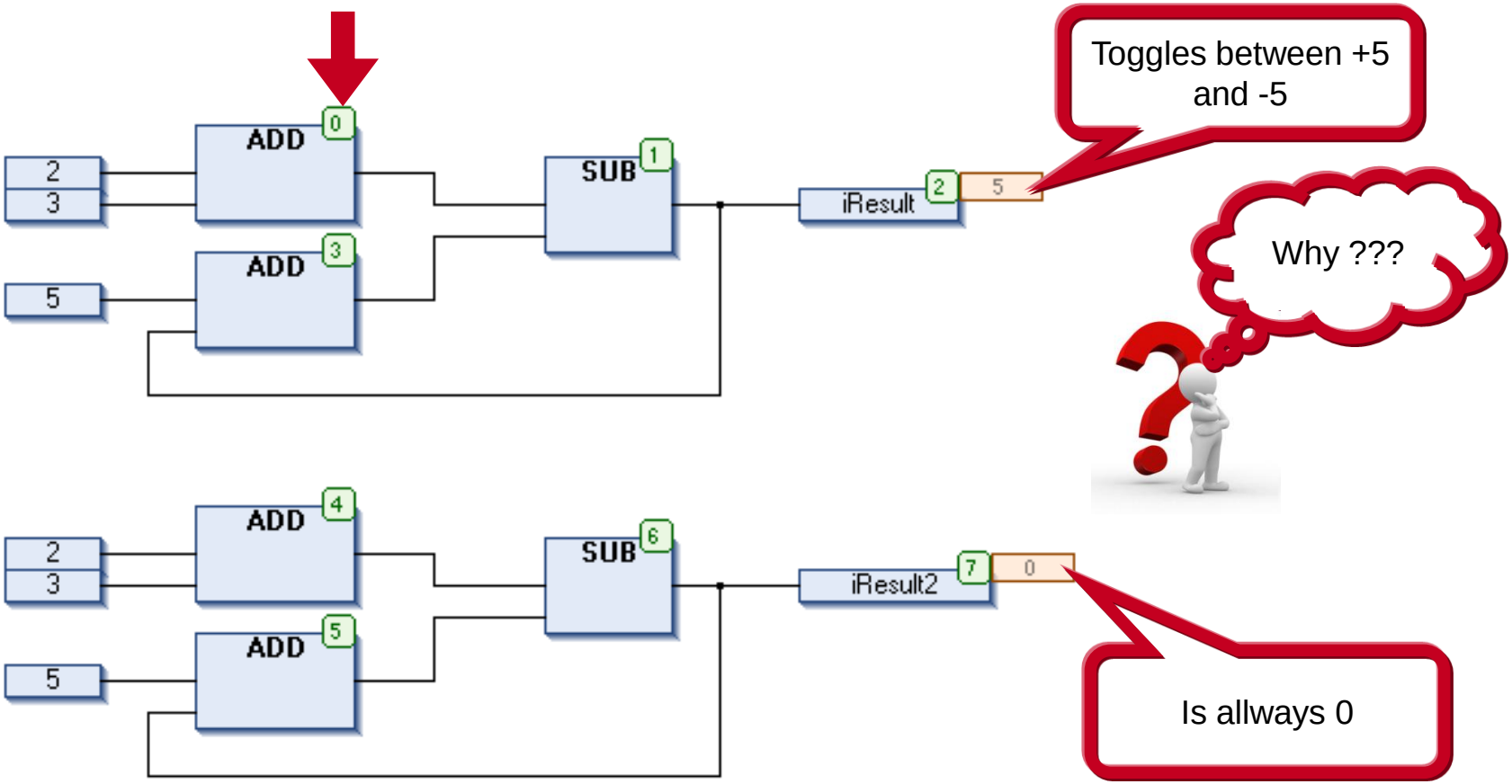
Selector



- A selector is used to handle an output of a box which is of type of a structure. The selector will display the structure components and thus make them accessible in the CFC for the programmer.



Execution Order



Let‘s check

Summary: CFC in CoDeSys allows you…

- to program in a graphical manner
- multiple connections between the elements
- even Feedback loops are possible
- to influence the execution order