INSTRUMENT

COMPONENT A

COMPONENT C

COMPONENT B

COMPONENT D
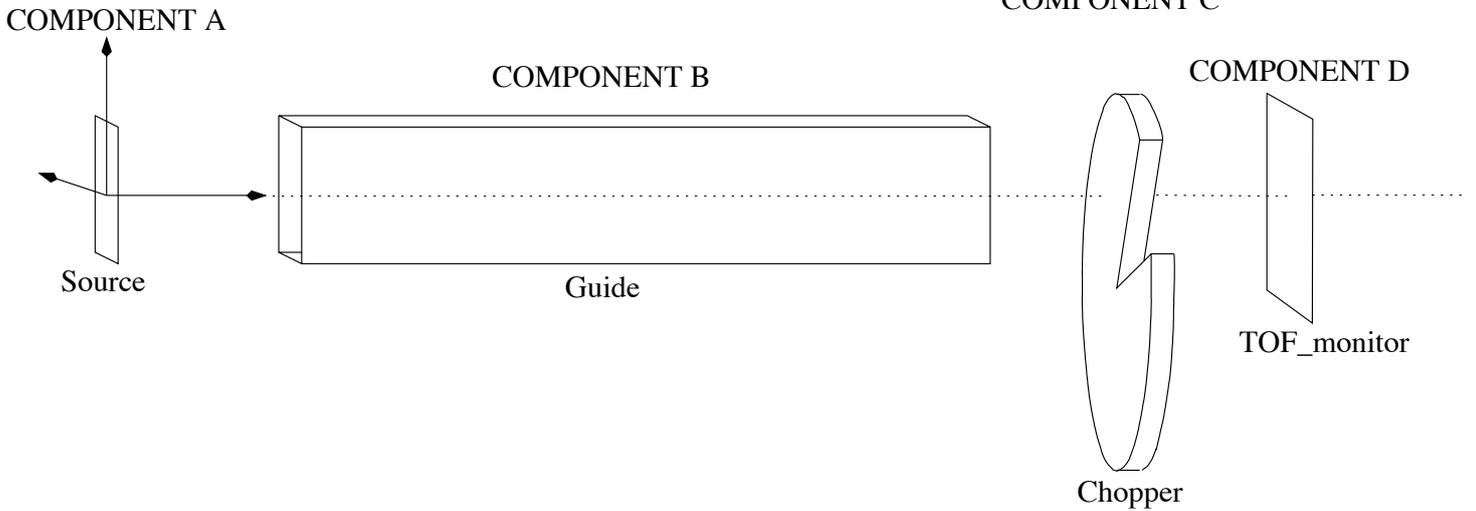
Source

Guide

Chopper

TOF_monitor

The "tool layer" consists of programs manipulated by the McStas user:

| mcgui, graphical user interface | mcplot, visualize histogram outp. | mcdisplay, visualize instrument |

mcgui is used to assemble an instrument file, which is taken over by the McStas system

DEFINE INSTRUMENT Example(Param1=1, string Param2="two", ...)

COMPONENT A = Source(Parameters...)
AT (0, 0, 0) ABSOLUTE

COMPONENT B = Guide(Parameters...)
AT (0, 0, 1) RELATIVE A

COMPONENT C = DiskChopper(Parameters...)
AT (0, 0, 1) RELATIVE B

COMPONENT D = TOF_monitor(Parameters, filename="Tof.dat")
AT (0, 0, Param1) RELATIVE PREVIOUS

"Instrument file"

Source.comp − c−code

Guide.comp − c−code

DiskChopper.comp − c−code

TOF_monitor.comp − c−code

Component library

| Random numbers | I/O | Physical consts. |

"Kernel and runtime c−code"

The McStas system generates an "ISO C file" and an executable from instrument file and c−codes

The simulation executable produces data output which can be visualized using the mcplot and mcdisplay tools