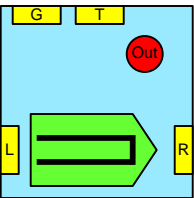
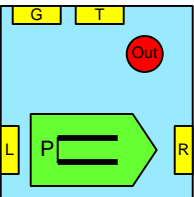


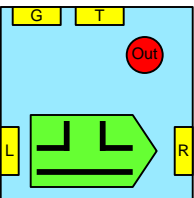
Pipe Segment



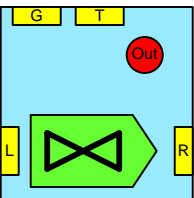
End Cap



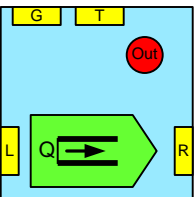
Defined Pressure Source



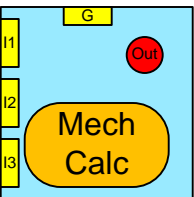
Pipe "T"



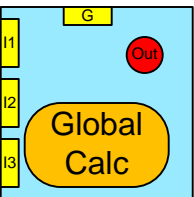
Valve



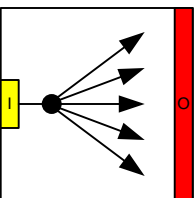
Defined Flow Source



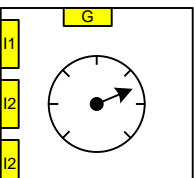
Mechanical Component



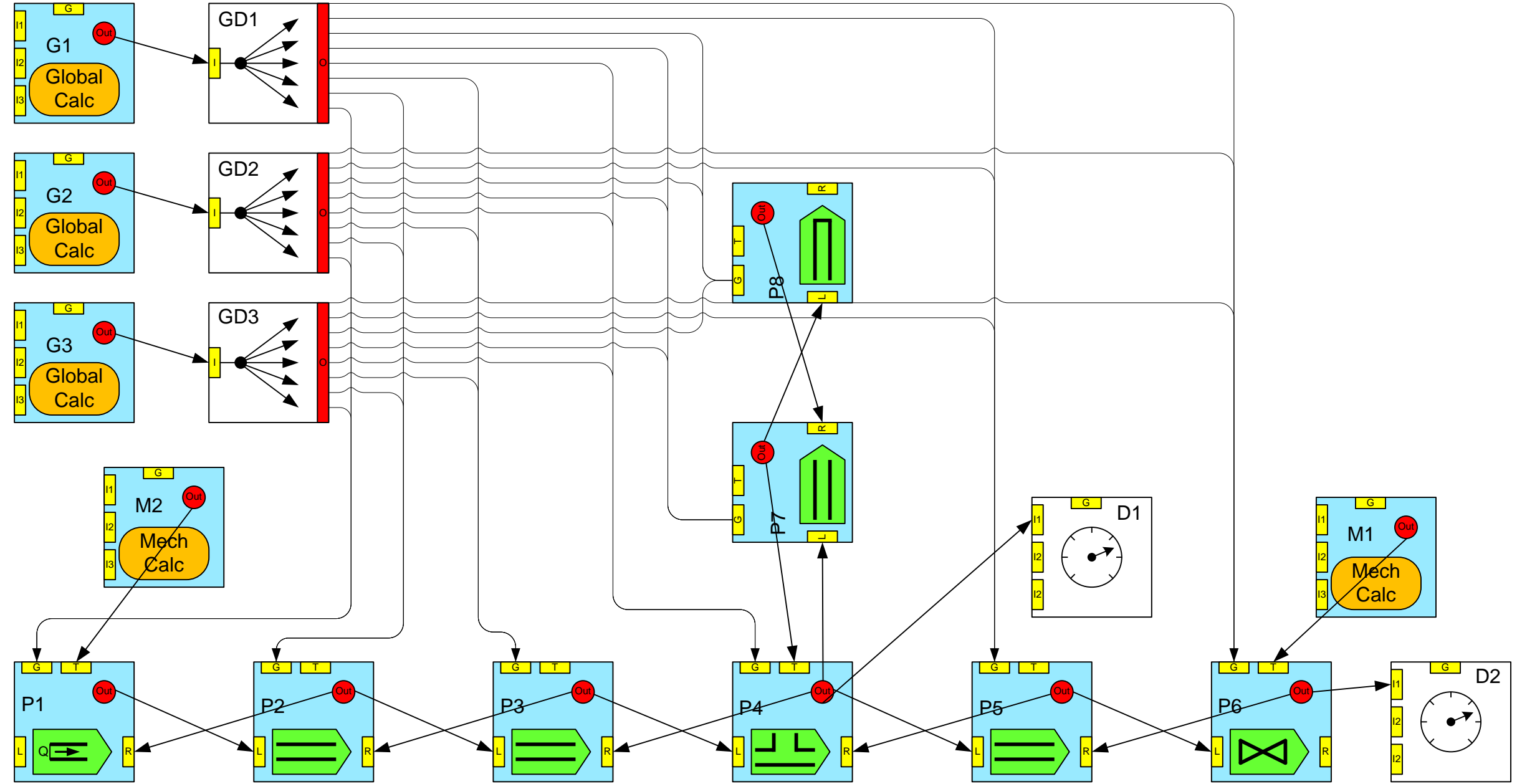
Global Calculation

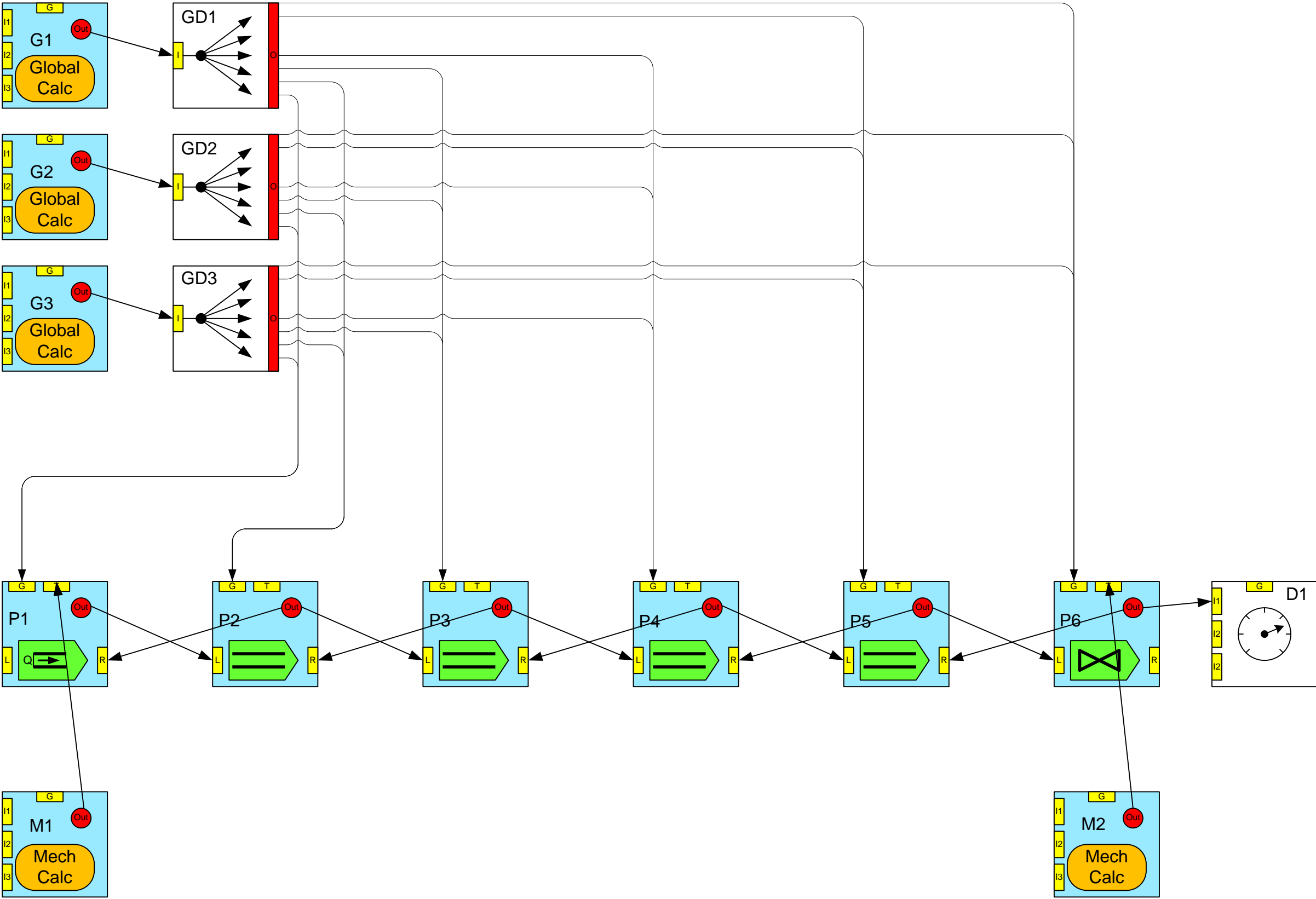


Global Distribution



Display/Post Data





Single Timestep

PRET Deadlines

Read Adjacent
& Glob Data

Compute Time Segment

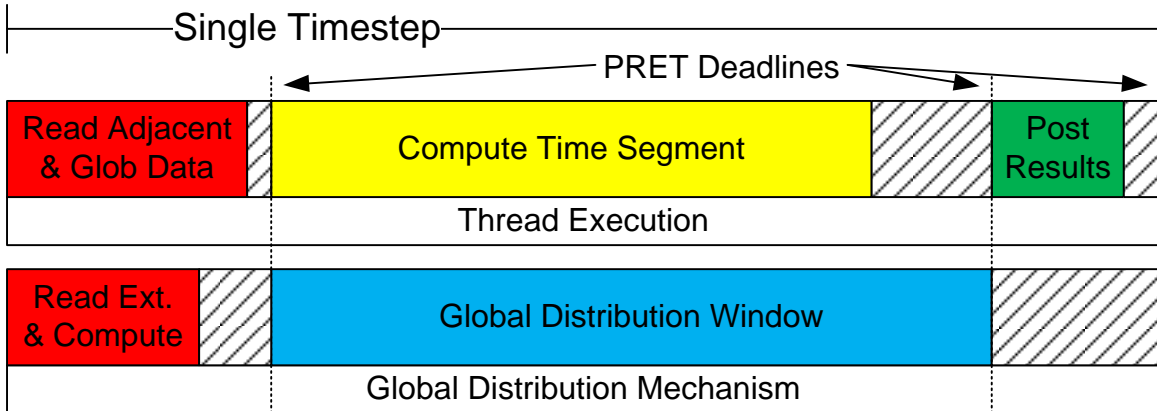
Post
Results

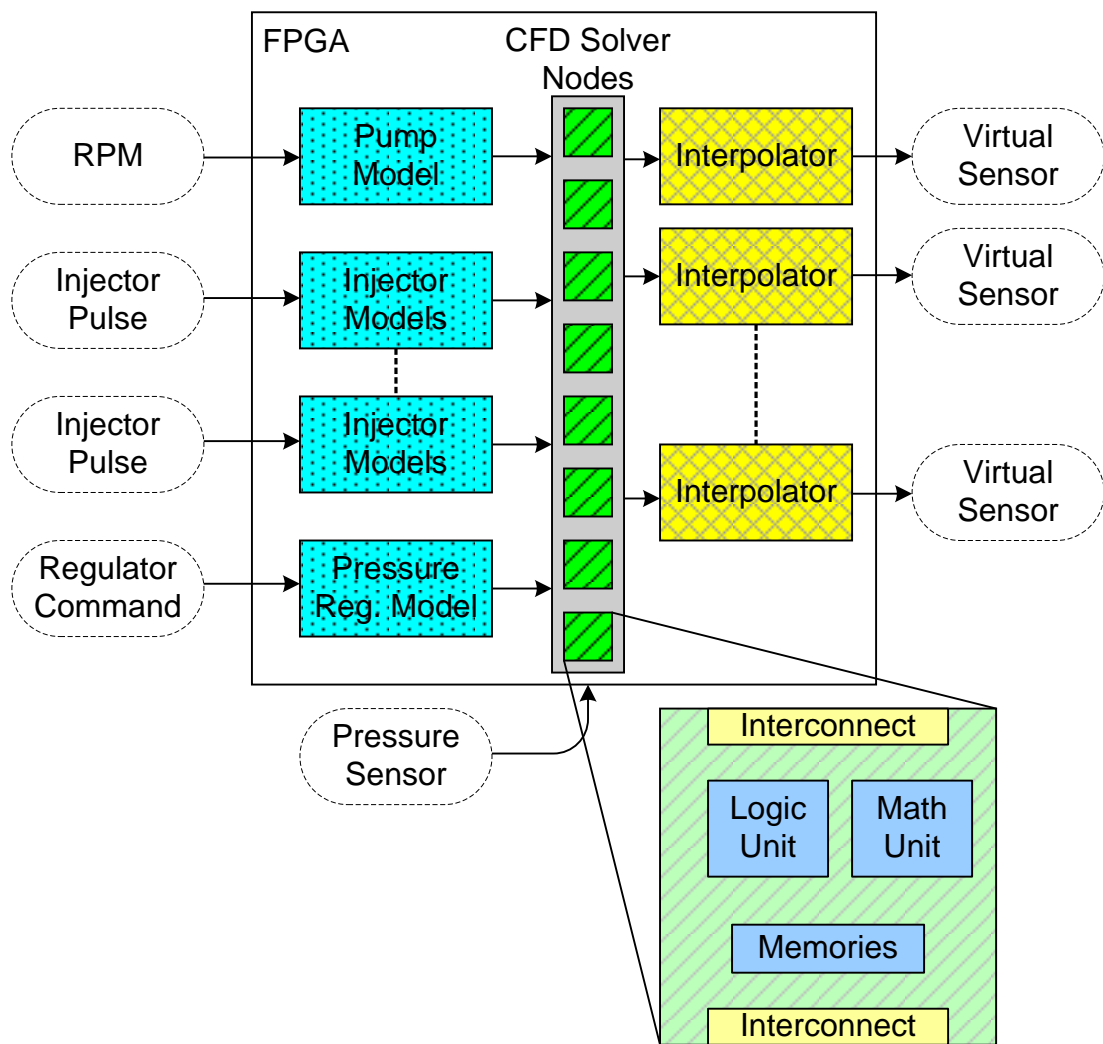
Thread Execution

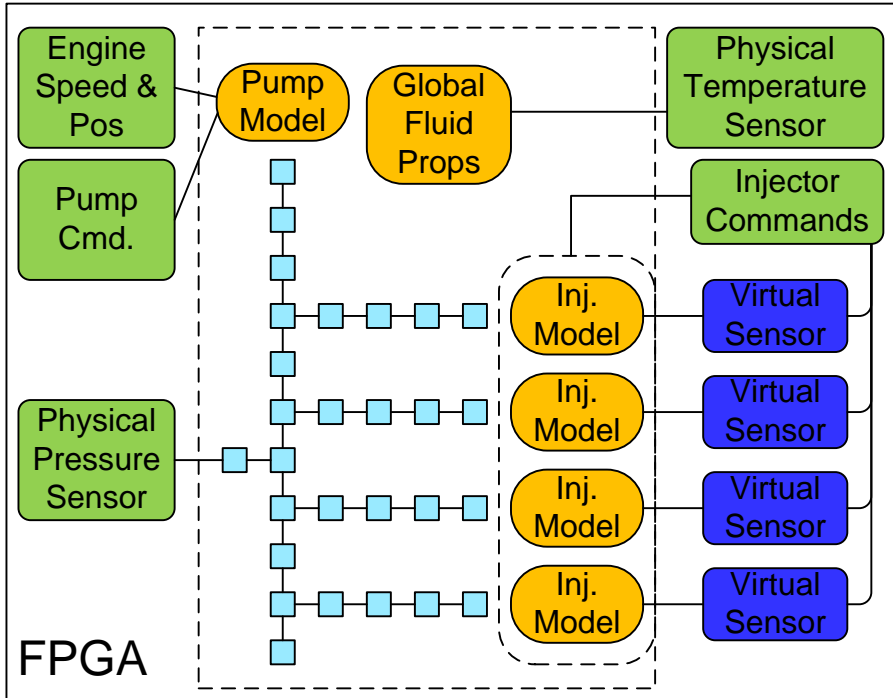
Read Ext.
& Compute

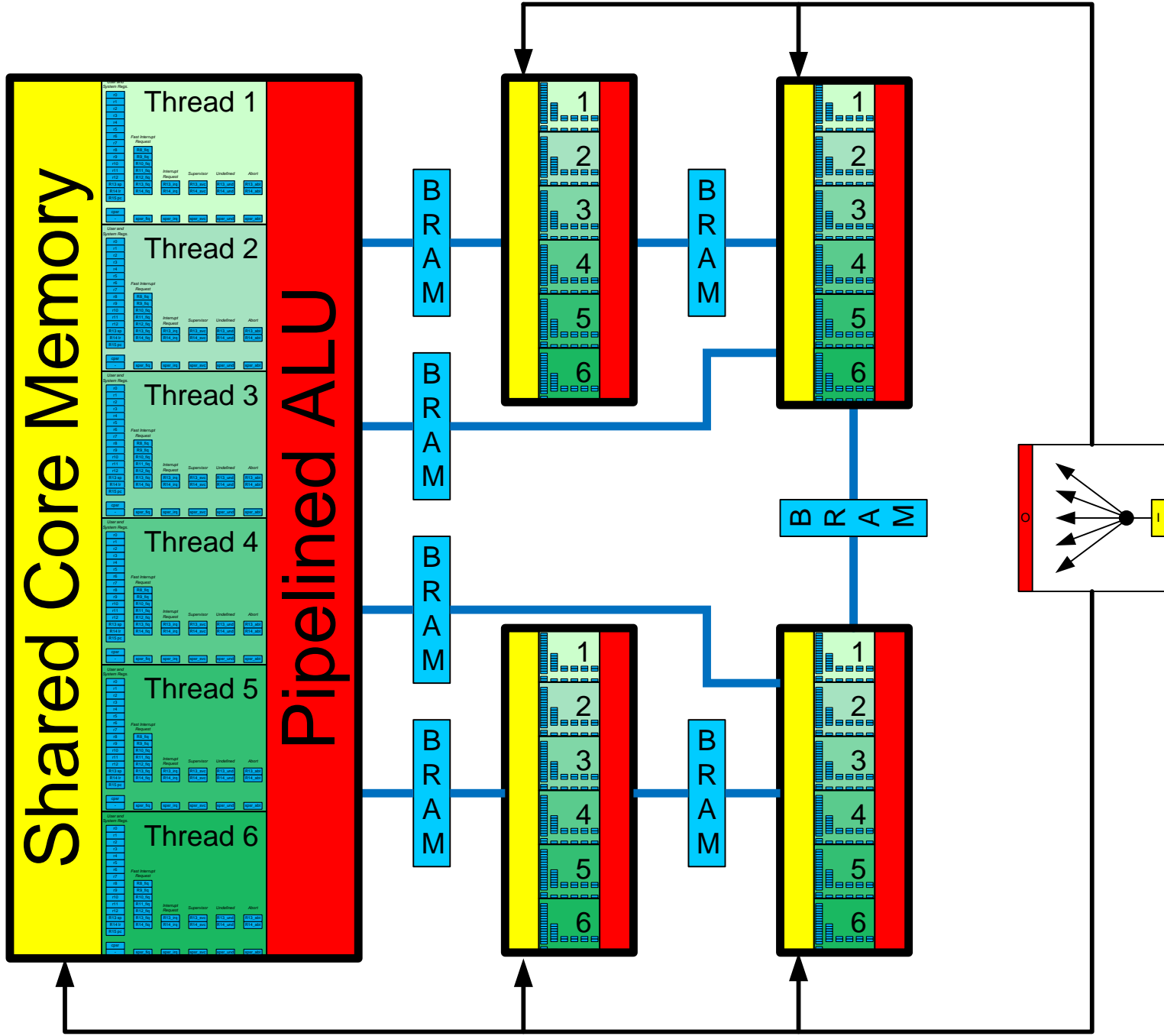
Global Distribution Window

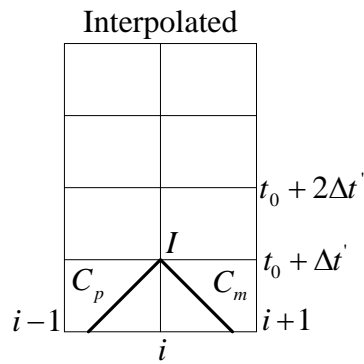
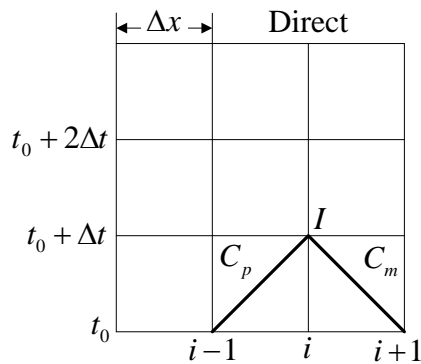
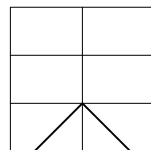
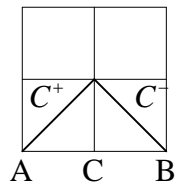
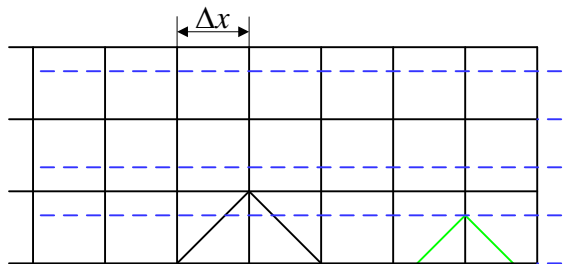
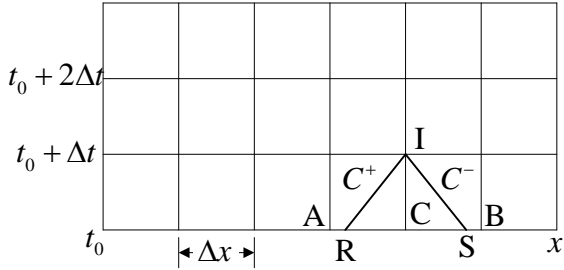
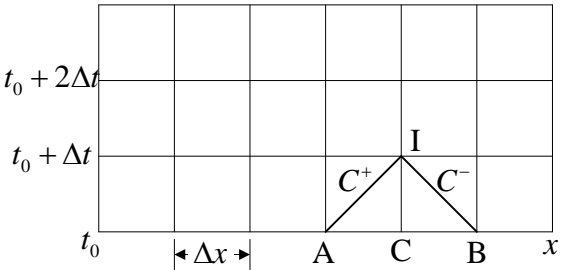
Global Distribution Mechanism

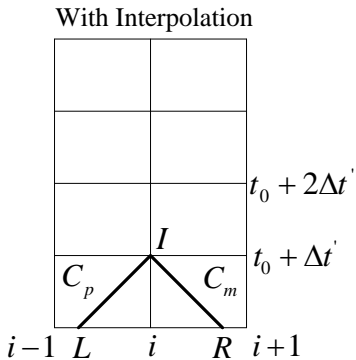
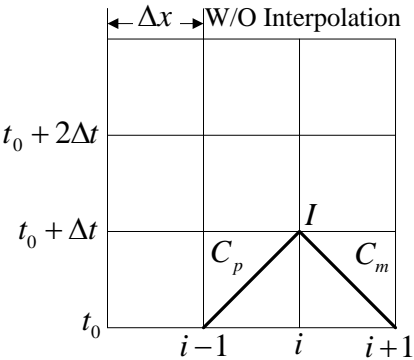












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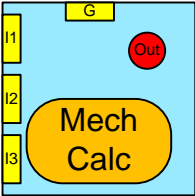
I1

I2

I3

Out

Mech
Calc



G

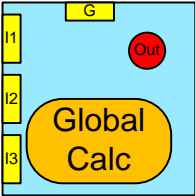
I1

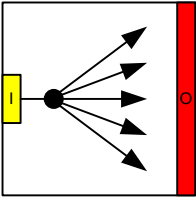
I2

I3

Out

Global
Calc



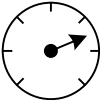


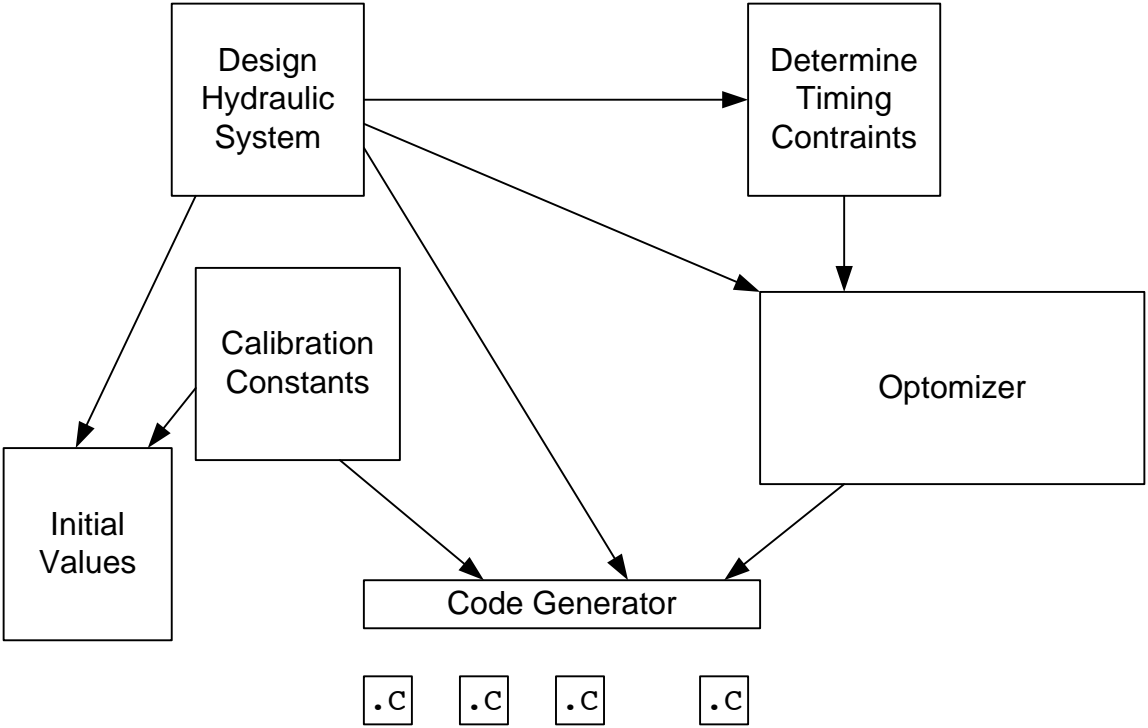
G

I1

I2

I2





Library of computational
elements

Graph of nodes

Flow system description

Instantiate heterogeneous cores
and map flow elements to
compatible threads

Worst case time step
determines allowed threading

Compile
&
deploy

