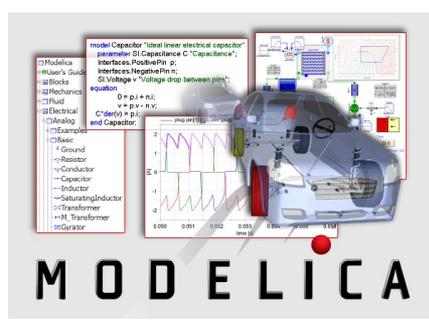


```

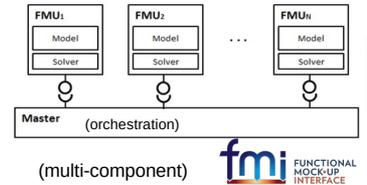
CLASS Capacitor
"
  Ideal Electrical Capacitor
"
EXTENDS ElectricalTwoTerminal WITH
{
  parameters <-
    {OBJ C "capacitance of the capacitor": Capacitance};
  equations <-
    {parameters.C*DERIV(state.v, [independent.t]) = state.i};
};
  
```

MSL-USER



MODELICA

(co-)Simulation / Execution

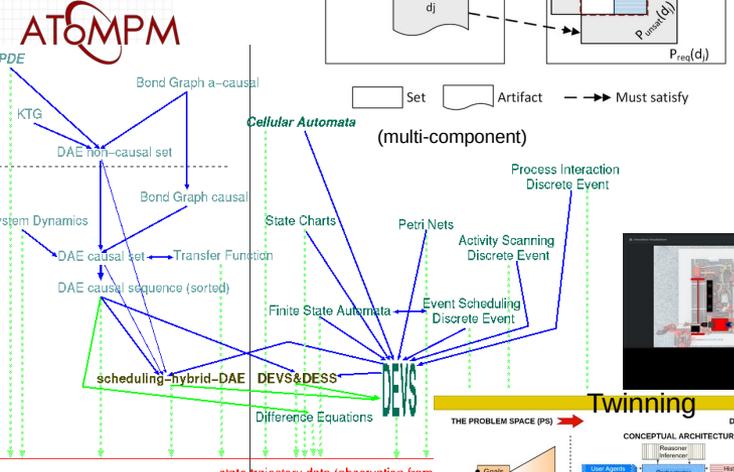
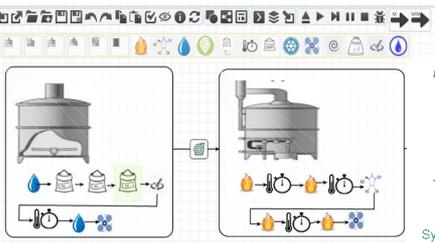


```

void BouncingBallClass :: ComputeState(void)
{
  D_x = v_hor_;
  D_y = -v_y_;
  D_vy = (y_ > R_) ? -g : -K/M*(y_ - R_) - D/M*v_y_;
}
  
```

MSL-EXEC

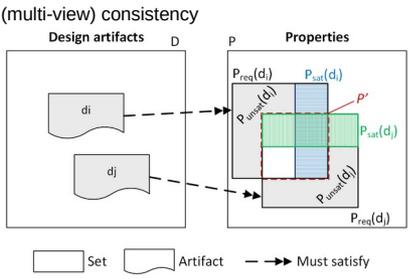
Meta-Modelling and Model (graph) Transformation



Formalism Transformation Graph (FTG) + PM

Multiverse / Modelverse (model management: operation-based versioning, live modelling, etc)

Multi-Paradigm Modelling (MPM)



(multi-component)

PythonPDEVS 2.1.0 documentation

**Table Of Contents**

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- Quick search: Enter search terms or a module, class or function name.

How to run PyPDEVS

There are several ways to start up a PythonPDEVS simulation. The simplest of them all is simply by running the experiment file, as discussed in the Examples section. For completeness, this method will also be mentioned as the first option.

Local simulation

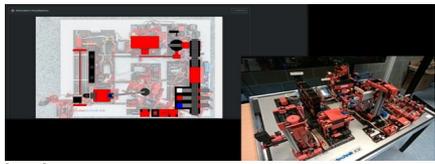
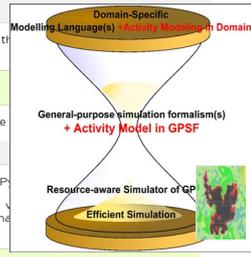
The simplest method is simply by running the something like:

```

model = MyModel()
sim = Simulator(model)
sim.simulate()
  
```

Distributed simulation with MPI

Running the MPI version requires the mpi4py Python module. Since version 2.1, running the MPI version is severely simplified. PyPDEVS will now automate when the correct invocation is done.



Twinning

