

# Runtime Simulation Code

## Solver

Quantizer

$$q(t) = Q(x(t), \dot{x}(t))$$

QSS1, LIQSS1, QSS2, etc.

$x(t)$

$q(t)$

Integrator

$$x(t) = \int_{t_0}^t \dot{x}(\tau) d\tau$$

$q(t), t$

$\dot{x}(t)$

structure

Model.mo

MicroModelica Parser  
and  
Code Generator

Model.c

$$\dot{x}(t) = f(q, t) + \text{structure}$$