Quarter Car Model

simulation 1:

components:

- zero force source
- mass(two port)
- connector
- spring
- damper
- connector
- mass(two port)
- springdamper
- xvcl01
- piecewise linear signal component

values:

mass 1:

m = 300

theta = -90

spring:

springrate = 15 000

spring force = 3220

damper:

no change

mass 2:

m = 30

theta = -90

springdamper:

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spring rate = 180 000 damper rating = 0
```

xvlc01:

no change

piecewise linear signal:

```
stages = 2

dur stage 1 = 0.1 s

output start stage 2 = 0.05

output at end of stage 2 = 0.05

dur stage 2 = 1e+06
```

simulation:

- change displacement of mass 1 => body displacement
- displacement of mass 2 => wheel displacement

visualize:

- click on mass 1 => drag and drop body displacement to screen
- click on mass 2 => drag and drop wheel displacement into the same graph
- drag signal component to the same graph as well

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values:

simulation: