

```
1 CONTEXT
2   PendulumLinCtx
3 EXTENDS
4   PendulumCtx
5 CONSTANTS
6   delta
7   control_delta
8   thetabound
9 AXIOMS
10  axm1 :  $\text{delta} \in \text{RReal}$ 
11  axm2 :  $\text{Rzero} \mapsto \text{delta} \in \text{lt}$ 
12  axm3 :  $\text{control\_delta} = \text{PendulumControlDelta}(\text{omega0}, \text{delta})$ 
13  axm4 :  $\text{thetabound} \in \text{RReal}$ 
14  axm5 :  $\text{Rzero} \mapsto \text{thetabound} \in \text{lt}$ 
15  axm6 :  $\text{thetabound} \mapsto \text{thetamax} \in \text{lt}$ 
16  axm7 :  $\text{delta} \mapsto \text{thetabound} \in \text{lt}$ 
17 END
```