

```
1 CONTEXT
2   PendulumCtx
3 EXTENDS
4   GenericCtx
5 CONSTANTS
6   omega0
7   thetamax
8   theta0
9   control
10 AXIOMS
11   axm1:  $\omega_0 \in \mathbb{R}Real$ 
12   axm2:  $\omega_0 \neq \mathbb{R}zero$ 
13   axm3:  $\theta_{max} = \theta_{max}(\omega_0)$ 
14   axm4:  $\theta_0 \in \mathbb{R}Real$ 
15   axm5:  $abs(\theta_0) \mapsto \theta_{max} \in \mathbb{I}t$ 
16   axm6:  $partition(STATES, \{control\})$ 
17 END
```