

CONTEXT

EventTriggered_Ctx

EXTENDS

System_Ctx

SETS

EXEC

PROP

CONSTANTS

prop_safe

prop_evt_trig

ctrl

plant

prg

f_evol

f_evol_plantV

prop_evade_values

AXIOMSaxm1 : prop_safe \in PROP \rightarrow ((RReal \times RReal) \rightarrow BOOL)axm2 : prop_evt_trig \in PROP \rightarrow ((RReal \times RReal) \times RReal \rightarrow BOOL)

axm3 : partition(EXEC, {ctrl},{plant},{prg})

axm4 : f_evol \in RReal \rightarrow RRealaxm5 : f_evol_plantV \in (RReal \rightarrow (TIME \times RReal \rightarrow RReal))axm6 : \forall ctrlV \cdot ctrlV \in RReal \Rightarrow (f_evol_plantV(ctrlV) =
(λ t \mapsto plantV \cdot t \in TIME \wedge plantV \in RReal | f_evol(ctrlV)))axm7 : prop_evade_values \in PROP \rightarrow $\mathbb{P}1$ (RReal)**END**