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—— MODULE Target -
INSTANCE Naturals
INSTANCE FiniteSets
LOCAL INSTANCE TLC
 An empty constant
Constant Nil
Target is the set of all targets and their possible paths and values.
Example: Target \stackrel{\Delta}{=} [
    values \mapsto [
      path1 \mapsto \{\text{``value1''}, \text{``value2''}\},\
      path2 \mapsto \{"value3"\}]
CONSTANT Target
 Represents a target running state
CONSTANT Alive
 Represents a target not running state
CONSTANT Dead
 A record of target states
Variable target
Start \triangleq
    \land \ target.state = Dead
    \land target' = [target \ EXCEPT \ !.instance = target.instance + 1,]
                                       !.state = Alive
Stop \triangleq
    \land \ target.state = Alive
    \land target' = [target \ EXCEPT \ !.state = Dead,
                                       !.values = [p \in \{\} \mapsto [value \mapsto Nil]]]
Formal specification, constraints, and theorems.
InitTarget \triangleq
    \land \ target = [instance \mapsto 0, \ state \mapsto Dead, \ values \mapsto [p \in \{\} \mapsto [value \mapsto Nil]]]
NextTarget \stackrel{\triangle}{=}
    \vee Start
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$\vee \, Stop$

Assume $\land \forall p \in \text{domain } Target.values :$ IsFiniteSet(Target.values[p])

- $\setminus * \ {\rm Modification} \ {\rm History}$
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