

ma-single-pre-init-feasible^{0,22}

$\forall a:\text{Id}, T:\text{Type}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, P:(\text{State}(ds) \rightarrow T \rightarrow \text{Prop}), \text{init}:x:\text{Id} \text{ fp} \rightarrow ds(x)?\text{Void}.$
 T
 $\Rightarrow \text{AtomFree}(\text{Type};T)$
 $\Rightarrow \forall x \in \text{dom}(ds). A=ds(x) \Rightarrow A$
 $\Rightarrow \forall x \in \text{dom}(ds). A=ds(x) \Rightarrow \text{AtomFree}(\text{Type};A)$
 $\Rightarrow (\forall s:\text{State}(ds). \text{Dec}(\exists v:T. P(s,v)))$
 $\Rightarrow \text{Feasible}(\text{with ds: } ds \text{ init: } \text{init} \text{ action } a:T \text{ precondition } a(v) \text{ is } P)$