

pre-init-p2^{0,22}

$\text{pre-init-p2}(es; i; ds; \text{init}; a; T; P)$
 $\equiv_{\text{def}} P \text{ holds in state } \text{init} \Rightarrow \exists e @i$
 & @i Precondition for $a(v)$
 $P \text{ State}(ds) (v:T)$
 & $(\forall x:\text{Id. } x \in \text{dom}(ds) \Rightarrow @i x \text{ initially } \text{init}(x):ds(x))$

clarification:

$\text{pre-init-p2}(es; i; ds; \text{init}; a; T; P)$
 $\equiv_{\text{def}} \text{pre-init-p}(es; i; ds; \text{init}; T; P)$
 & $\text{pre-p}(es; i; ds; a; T; P)$
 & $(\forall x:\text{Id.}$
 $\text{fpf-dom}(\text{IdDeq}; x; ds)$
 $\Rightarrow \text{init-p}(es; i; \text{fpf-ap}(ds; \text{IdDeq}; x); x; \text{fpf-ap}(\text{init}; \text{IdDeq}; x))$)