

## pre-init-p2<sup>11,40</sup>

$\text{pre-init-p2}(es; i; ds; \text{init}; a; p; P)$   
 $\equiv_{\text{def}} \text{pre-init-p}(es; i; ds; \text{init}; P)$   
& @i Precondition for  $a:\text{Outcome}(p)$  is  
 $P:\text{State}(ds) \rightarrow \mathbb{B}$   
&  $(\forall x:\text{Id}. (\uparrow x \in \text{dom}(ds)) \Rightarrow @i x \text{ initially } \text{init}(x):ds(x))$

*clarification:*

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