

## **pre-init-p**<sup>11,40</sup>

$\text{pre-init-p}(es; i; ds; \text{init}; P) \equiv_{\text{def}} (\uparrow(P(\lambda x. \text{init}(x)?\cdot))) \Rightarrow (\exists e:\mathbb{E}. (\text{loc}(e) = i))$

*clarification:*

$\text{pre-init-p}(es; i; ds; \text{init}; P)$   
 $\equiv_{\text{def}} (\uparrow(P(\lambda x. \text{fpf-cap}(\text{init}; \text{IdDeq}; x;\cdot)))) \Rightarrow (\exists e:\text{es-E}(es). (\text{es-loc}(es; e) = i \in \text{Id}))$