

ma-single-effect-ma-single-pre-init-compatible^{0,22}

$\forall a:\text{Id}, T:\text{Type}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, P:\text{Top}, \text{init}:x:\text{Id} \text{ fp} \rightarrow \text{Top}, x:\text{Id}, k:\text{Knd}, d_1:x:\text{Id} \text{ fp} \rightarrow \text{Type},$
 $da:a:\text{Knd} \text{ fp} \rightarrow \text{Type}, f:\text{Top}.$

$ds \parallel d_1$

$\Rightarrow \text{locl}(a) : T \parallel da$

\Rightarrow (with declarations

$ds:d_1$

$da:da$

effect of $k(v)$ is $x := f \text{ s } v$

$\parallel+$ with $ds: ds$ $\text{init: } \text{init}$ $\text{action } a:T$ $\text{precondition } a(v)$ is P)