

ma-interface-consistent2^{11,40}

ma-interface-consistent2($es; I$)
 $\equiv_{\text{def}} \forall i: \text{Id}.$
 ($i \in \text{ma-interface-locs}(I)$)
 $\Rightarrow (\forall k: \{k: \text{Knd} \mid \uparrow \text{hasloc}(k; i)\} .$
 ($k \in \text{ma-interface-dom}(I; i)$)
 $\Rightarrow (\forall e @ i. (\text{kind}(e) = k) \Rightarrow (\text{valtype}(e) \subseteq_r \text{ma-interface-valtype}(I; i; k))$
 $\& (\forall x: \text{Id}. \text{vartype}(i; x) \subseteq_r \text{ma-interface-ds}(I; i)(x)?\text{Top}))$)

clarification:

ma-interface-consistent2($es; I$)
 $\equiv_{\text{def}} \forall i: \text{Id}.$
 ($i \in \text{ma-interface-locs}(I) \in \text{Id}$)
 $\Rightarrow (\forall k: \{k: \text{Knd} \mid \uparrow \text{hasloc}(k; i)\} .$
 ($k \in \text{ma-interface-dom}(I; i) \in \text{Knd}$)
 $\Rightarrow (\text{alle-at}(es; i; e. (\text{es-kind}(es; e) = k \in \text{Knd})$
 $\Rightarrow (\text{es-valtype}(es; e) \subseteq_r \text{ma-interface-valtype}(I; i; k))$
 $\& (\forall x: \text{Id}. \text{es-vartype}(es; i; x) \subseteq_r \text{fpf-cap}(\text{ma-interface-ds}(I; i); \text{IdDeq}; x; \text{Top})))$)