

ma-frame-compat^{0,22}

ma-frame-compat($A;B$)

$\equiv_{\text{def}} \forall a \in \text{dom}(1\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))))) . p=1\text{of}(2\text{of}(2\text{of}(2\text{of}(A))))(a) \Rightarrow B.\text{rframe}(A.\text{pre } p \text{ for } a)$
 $\& \forall kx \in \text{dom}(1\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))))) .$

$ef=1\text{of}(2\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))))(kx) \Rightarrow$
 $B.\text{frame}(1\text{of}(kx) \text{ affects } 2\text{of}(kx))$
 $\& B.\text{aframe}(1\text{of}(kx) \text{ affects } 2\text{of}(kx))$
 $\& B.\text{rframe}(A.\text{effect } ef \text{ of } 1\text{of}(kx) \text{ on } 2\text{of}(kx))$
 $\& \forall kl \in \text{dom}(1\text{of}(2\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))))) .$

$snd=1\text{of}(2\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))))(kl) \Rightarrow$
 $(\forall tg:\text{Id} . (tg \in \text{map}(\lambda p.1\text{of}(p);snd)) \Rightarrow B.\text{sframe}(1\text{of}(kl) \text{ sends } \langle 2\text{of}(kl),tg \rangle))$
 $\& B.\text{bframe}(1\text{of}(kl) \text{ sends on } 2\text{of}(kl))$
 $\& B.\text{rframe}(A.\text{sends } snd \text{ of } 1\text{of}(kl) \text{ on } 2\text{of}(kl))$

clarification:

ma-frame-compat($A;B$)

$\equiv_{\text{def}} \text{fpf-all}(\text{Id}; \text{IdDeq}; 1\text{of}(2\text{of}(2\text{of}(2\text{of}(A))))); a,p.B.\text{rframe}(A.\text{pre } p \text{ for } a)$
 $\& \text{fpf-all}((\text{Knd} \times \text{Id});$

$\text{product-deq}(\text{Knd}; \text{Id}; \text{KindDeq}; \text{IdDeq});$
 $1\text{of}(2\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))));$
 $kx, ef . (B.\text{frame}(1\text{of}(kx) \text{ affects } 2\text{of}(kx))$
 $\& B.\text{aframe}(1\text{of}(kx) \text{ affects } 2\text{of}(kx))$
 $\& B.\text{rframe}(A.\text{effect } ef \text{ of } 1\text{of}(kx) \text{ on } 2\text{of}(kx)))$

$\& \text{fpf-all}((\text{Knd} \times \text{IdLnk});$
 $\text{product-deq}(\text{Knd}; \text{IdLnk}; \text{KindDeq}; \text{IdLnkDeq});$
 $1\text{of}(2\text{of}(2\text{of}(2\text{of}(2\text{of}(A)))));$
 $kl, snd . ((\forall tg:\text{Id} .$
 $(tg \in \text{map}(\lambda p.1\text{of}(p);snd) \in \text{Id})$
 $\Rightarrow B.\text{sframe}(1\text{of}(kl) \text{ sends } \langle 2\text{of}(kl),tg \rangle))$
 $\& B.\text{bframe}(1\text{of}(kl) \text{ sends on } 2\text{of}(kl))$
 $\& B.\text{rframe}(A.\text{sends } snd \text{ of } 1\text{of}(kl) \text{ on } 2\text{of}(kl)))$