

should-forward^{13,45}

$\text{should-forward}(es; In; isupdate; f; a)$
 $\equiv_{\text{def}} ((\uparrow(a \in_b In)) \ \& \ (\uparrow(isupdate(In(a)))))) \vee ((\neg(\uparrow(a \in_b In))) \ \& \ (\neg(\text{loc}(f(a)) = \text{loc}(a))))$

clarification:

$\text{should-forward}(es; In; isupdate; f; a)$
 $\equiv_{\text{def}} ((\uparrow(a \in_b In)) \ \& \ (\uparrow(isupdate(In(a))))))$
 $\vee ((\neg(\uparrow(a \in_b In))) \ \& \ (\neg(\text{es-loc}(es; (f(a))) = \text{es-loc}(es; a) \in \text{Id})))$