

## es-triggers-loc<sup>11,40</sup>

$\forall es:ES, A:Type, i:Id, ds:x:Id \text{ fp} \rightarrow Type,$   
 $conds:k:Knd \text{ fp} \rightarrow V:Type \times (State(ds) \rightarrow V \rightarrow (A + Top)).$   
 $(\forall k:Knd. (\uparrow k \in \text{dom}(conds)) \Rightarrow (\uparrow \text{hasloc}(k;i)))$   
 $\Rightarrow (\forall e:E.$   
     $(\text{loc}(e) = i)$   
     $\Rightarrow (\uparrow \text{kind}(e) \in \text{dom}(conds))$   
     $\Rightarrow ((\text{valtype}(e) \subseteq_r (conds(\text{kind}(e)).1)) \ \& \ (\text{state}@loc(e) \subseteq_r State(ds))))$   
 $\Rightarrow (\forall e:E. (\uparrow(e \in_b \text{es-triggers}(es;i;ds;conds))) \Rightarrow (\text{loc}(e) = i))$