

## state-machine-spec<sup>11,40</sup>

$\text{state-machine-spec}\{i:l\}$   
 $(es; C; R; F; I; O)$   
 $\equiv_{\text{def}} \exists X:\text{AbsInterface}(C)$   
 $\exists Q:E \rightarrow E \rightarrow \mathbb{P}$   
 $\exists B:\text{retrace}(es; Q; X)$   
 $(\text{Q-R-glued}(es; C; (\lambda e.I(e)); I; (\lambda e,e'. (e < \text{loc } e'))); X; Q)$   
 $\& \text{Q-R-glued}(es;$   
 $R;$   
 $(\lambda e.F(\text{map}(\lambda e'.X(e');(\text{retracer}(B)(e)) @ [e])));$   
 $X;$   
 $Q;$   
 $O;$   
 $(\lambda e,e'. (\text{loc}(e) = \text{loc}(e')) \Rightarrow (e < \text{loc } e'))))$

*clarification:*

$\text{state-machine-spec}\{i:l\}$   
 $(es; C; R; F; I; O)$   
 $\equiv_{\text{def}} \exists X:\text{AbsInterface}(es;C)$   
 $\exists Q:\text{es-E}(es) \rightarrow \text{es-E}(es) \rightarrow \mathbb{P}\{i\}$   
 $\exists B:\text{retrace}(es; Q; X)$   
 $(\text{Q-R-glued}(es; C; (\lambda e.I(e)); I; (\lambda e,e'. \text{es-loc}(es; e; e'))); X; Q)$   
 $\& \text{Q-R-glued}(es;$   
 $R;$   
 $(\lambda e.F(\text{map}(\lambda e'.X(e');(\text{retracer}(B)(e)) @ [e / []])));$   
 $X;$   
 $Q;$   
 $O;$   
 $(\lambda e,e'. (\text{es-loc}(es; e) = \text{es-loc}(es; e') \in \text{Id}) \Rightarrow \text{es-loc}(es; e; e'))))$