

combine-ecl-trans-state^{0,22}

$\forall ds:x:\text{Id fp} \rightarrow \text{Type}, da:k:\text{Knd fp} \rightarrow \text{Type}, A, B:\text{ecl-trans-tuple}\{i:l\}(ds;da),$
 $f:(\mathbb{N} \rightarrow \mathbb{B}) \rightarrow (\mathbb{N} \rightarrow \mathbb{B}) \rightarrow \mathbb{N} \rightarrow \mathbb{B}, g:(\mathbb{B} \rightarrow \mathbb{B} \rightarrow \mathbb{B}), L:\text{event-info}(ds;da) \text{ List.}$
 $(\forall L':\text{event-info}(ds;da) \text{ List. } L' \leq L \Rightarrow \text{ecl-trans-h}(A)(0,\text{ecl-trans-state}(A;L')) \Rightarrow L' = L)$
 $\Rightarrow \text{ecl-trans-state}(\text{combine-ecl-tuples}(A;B;f;g);L)$
 $=$
 $\langle \text{ecl-trans-state}(A;L), \text{ecl-trans-state}(B;\text{nil}) \rangle$
 $\in \text{ecl-trans-type}(\text{combine-ecl-tuples}(A;B;f;g))$