

es-atom-lemma2^{11,40}

$\forall es:ES, a:Atom1, e:E.$

$loc(e) \parallel a$

$\Rightarrow (\forall e':E. (e' < e) \Rightarrow e' \text{ sends to } loc(e) \parallel a)$

$\Rightarrow es_state_when(es;es_init(es;e)):es_state(es;loc(e)) \parallel a$

$\Rightarrow e \text{ sends } \parallel a$