

thread-p-ordered^{11,40}

$\forall es:ES, p:(E \rightarrow (E + \text{Top})).$
 $(\text{causal-predecessor}(es;p) \ \& \ \text{p-inject}(E;E;p))$
 $\Rightarrow (\forall e, e':E. \text{same-thread}(es;p;e;e') \Rightarrow ((e \ p < e' \vee (e = e')) \vee e' \ p < e))$