

es-next-bool-assign-property^{11,40}

$\forall es:\text{ES}, v:\mathbb{B}, x:\text{Id}, e:\{e:\text{E} \mid @\text{loc}(e)(x:\mathbb{B})\}, e':\{e':\text{E} \mid e \leq \text{loc } e' \ \& \ (x \text{ after } e') = v\} .$
 $((x \text{ when } e) = (\neg_b v) \in \mathbb{B})$

$\Rightarrow$ let $e_1 =$ next event in $[e, e']$ after which $x =_b v$ in

$e \leq \text{loc } e_1$
 $\& \forall e'' \in [e, e_1]. (x \text{ after } e'') = (\neg_b v) \in \mathbb{B}$
 $\& \forall e'' \in [e, e_1]. (x \text{ when } e'') = (\neg_b v) \in \mathbb{B}$
 $\& (x \text{ after } e_1) = v$
 $\& (x \text{ when } e_1) = (\neg_b v) \in \mathbb{B}$