

## **l\_exists\_append**<sup>11,40</sup>

$\forall T:\text{Type}, P:(T \rightarrow \mathbb{P}), L_1, L_2:(T \text{ List}). (\exists x \in L_1 @ L_2.P(x)) \iff ((\exists x \in L_1.P(x)) \vee (\exists x \in L_2.P(x)))$