

l.all_append^{11,40}

$\forall T:\text{Type}, P:(T \rightarrow \text{prop}\{i:l\}), L_1, L_2:(T \text{ List}).$

$\text{l.all}(\text{append}(L_1; L_2); T; x.P(x)) \iff (\text{l.all}(L_1; T; x.P(x)) \wedge \text{l.all}(L_2; T; x.P(x)))$