

interleaving_filter2^{4,23}

$\forall T:\text{Type}, L, L_1, L_2:T \text{ List.}$

$\text{interleaving}(T;L_1;L_2;L)$

\Leftrightarrow

$(\exists P:(\mathbb{N}_{<\|L\|} \rightarrow \mathbb{B}). L_1 = \text{filter2}(P;L) \ \& \ L_2 = \text{filter2}(\lambda i. \neg_2 P(i);L))$