

fpf-join-list-ap-disjoint^{11,40}

$\forall A:\text{Type}, eq:\text{EqDecider}(A), B:(A \rightarrow \text{Type}), L:(a:A \text{ fp} \rightarrow B(a) \text{ List}), x:A.$

$(\uparrow x \in \text{dom}(\oplus(L)))$

$\Rightarrow (\forall f,g \in L. \forall x:A. \neg((\uparrow x \in \text{dom}(f)) \& (\uparrow x \in \text{dom}(g))))$

$\Rightarrow (\forall f:a:A \text{ fp} \rightarrow B(a). (f \in L) \Rightarrow (\uparrow x \in \text{dom}(f)) \Rightarrow (\oplus(L)(x) = f(x) \in B(x)))$