

fpf-join-wf^{11,40}

$\forall A:\text{Type}, B, C, D:(A \rightarrow \text{Type}), f:a:A \text{ fp} \rightarrow B(a), g:a:A \text{ fp} \rightarrow C(a), eq:\text{EqDecider}(A).$
 $(\forall a:A. (\uparrow a \in \text{dom}(f)) \Rightarrow (B(a) \subseteq_r D(a)))$
 $\Rightarrow (\forall a:A. (\uparrow a \in \text{dom}(g)) \Rightarrow (C(a) \subseteq_r D(a)))$
 $\Rightarrow (f \oplus g \in a:A \text{ fp} \rightarrow D(a))$