

fpf-compatible-join-cap^{11,40}

$\forall A:\text{Type}, eq:\text{EqDecider}(A), B:(A \rightarrow \text{Type}), f,g:\text{fpf}(A; a.B(a)), x:A, z:B(x).$
 $\text{fpf-compatible}(A; a.B(a); eq; f; g)$
 $\Rightarrow (\text{fpf-cap}(\text{fpf-join}(eq; f; g); eq; x; z)$
 $\quad =$
 $\quad \text{fpf-cap}(g; eq; x; \text{fpf-cap}(f; eq; x; z))$
 $\quad \in B(x))$