

## **pairs-fpf\_property**<sup>11,40</sup>

$\forall A, B:\text{Type}, eq_1:\text{EqDecider}(A), eq_2:\text{EqDecider}(B), L:(:A \times B) \text{ List}.$   
 $\text{no\_repeats}(A;\text{fpf-domain}(\text{fpf}(L)))$   
&  $(\forall a:A. (a \in \text{fpf-domain}(\text{fpf}(L))) \iff (\exists b:B. \langle a, b \rangle \in L))$   
&  $\forall a \in \text{dom}(\text{fpf}(L)). l = \text{fpf}(L)(a) \Rightarrow \text{no\_repeats}(B;l) \ \& \ (\forall b:B. (b \in l) \iff \langle a, b \rangle \in L)$