Lemma. There is a functor FixResMaxFunBack: $Pos_{\checkmark} \rightarrow DP$ which maps: 1. An object (poset) in **Pos**_{9/} to the same object (poset) in **DP**.

2. A morphism $g \in \operatorname{Hom}_{\operatorname{Pos}_{\varphi}}(\mathbf{F}; \mathbf{R})$ to the morphism $\mathbf{d}_{g} \in \operatorname{Hom}_{\operatorname{DP}}(\mathbf{F}; \mathbf{R})$,

where:

 $\mathbf{d}_{g}: \mathbf{F}^{\mathrm{op}} \times \mathbf{R} \rightarrow_{\mathbf{Pos}} \mathbf{Bool}$

 $\langle f^*, r \rangle \mapsto f \in g^*(r)$.