

trivial-component-property^{11,40}

$\forall A, B:\text{Type}, f:(A \rightarrow B), ds:(\text{Id} \rightarrow \text{Type}), da:(\text{Id} \rightarrow \text{Knd} \rightarrow \text{Type}).$

$\text{trivial-component}(f) \mid\text{- } es, in, out. \exists g: \mathbf{E}(out) \rightarrow \mathbf{E}(in)$
 $(\forall e: \mathbf{E}(out). g(e) \text{ c}\leq e \ \& \ out(e) = f(in(g(e))) \in B)$
 $\& (\forall e, e': \mathbf{E}(out). (e < e') \iff (g(e) < g(e'))))$