

st-lookup^{0,22}

st-lookup($tab;x$)
 \equiv_{def} let $K,p,f = tab$ in
 let $n = \text{mu}(\lambda n.p <_2 n \vee_2 K \leq_2 n \vee_2 \text{1of}(f(n)) =_{\text{a1}} x)$ in
 if $p <_2 n \vee_2 K \leq_2 n \rightarrow \text{inr}(\cdot)$ else $\text{inl}(\text{2of}(f(n)))$ fi

clarification:

st-lookup($tab;x$)
 \equiv_{def} let $K,p,f = tab$ in
 let $n = \text{mu}(\lambda n.p <_2 n \vee_2 K \leq_2 n \vee_2 \text{eq_atom1}(\text{1of}(f(n));x))$ in
 if $p <_2 n \vee_2 K \leq_2 n \rightarrow \text{inr}(\cdot)$ else $\text{inl}(\text{2of}(f(n)))$ fi