

Inference at \*  
of proof for Lemma decidable\_iff:

$\vdash \forall P, Q: \mathbb{P}. \text{Dec}(P) \Rightarrow \text{Dec}(Q) \Rightarrow \text{Dec}(P \iff Q)$   
by ((Repeat (Unfolds "iff rev\_implies" 0))  
CollapseTHEN ((Auto\_aux (first\_nat 1:n  
) ((first\_nat 1:n),(first\_nat 3:n)) (first\_tok :t) inil\_term))))).