

Inference at \* 1  
of proof for Lemma neg\_assert\_of\_eq\_atom:

1.  $x : \text{Atom}$   
2.  $y : \text{Atom}$   
 $\vdash (\neg(x = y)) \iff x \neq y \in \text{Atom}$   
by ((Unfold 'nequal' 0)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n  
,(first\_nat 3:n)) (first\_tok :t) inil\_term))))).