

Inference at * 1 3 1
of proof for Lemma pos_mul_arg_bounds:

```

1.  $a : \mathbb{Z}$ 
2.  $b : \mathbb{Z}$ 
3.  $(a * b) > 0$ 
4.  $a > 0$ 
 $\vdash b > 0$ 
  by ((ReplaceWithEqv (TryC (HigherC IntSimpC)) ( $a * b > (a * 0)$ ) 3)
  CollapseTHEN (
    (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

    3.  $(a * b) > (a * 0)$ 
    4.  $a > 0$ 
     $\vdash b > 0$ 
  .

```