

Inference at * 1 1 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)

      CollapseTHENA ((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.  $a < 0$ 
       $\vdash b < 0$ 
      .

```