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. $a < 0$

$\vdash b < 0$

.