Inference at $*$ 1 1
 of proof for Lemma mul_preserves_lt:

. . . . .basecase. . . . . NILNIL

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $a < b$
4. $n : \mathbb{Z}$
5. $0 < n$
6. $1 = n$

$\vdash (n * a) < (n * b)$

 by ((RevHypSubst 6 0)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

---

http://www.nuprl.org/FDLcontent/p0_942988_/p121_75573_{mul_preserves_lt}1_1.html