Inference at $*$ 1 1
 of proof for Lemma mul_bounds_1b:

. . . . .assertion. . . . . NILNIL

1. $a : \mathbb{N}^+$
2. $b : \mathbb{N}^+$
$\vdash (a * 0) < (a * b)$
 by ((BackThruLemma ‘mul_preserves_lt‘)
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_74373_{mul_bounds_1b}1_1.html