Inference at $*$
of proof for Lemma multiply_nat_wf:

$\vdash \forall i, j{:}\mathbb{N}.\ (i * j) \in \mathbb{N}$
by ((((UnivCD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
3:n)) (first_tok :t) inil_term)))·)
CollapseTHEN (((MemTypeCD)
CollapseTHENA (
(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·
))·

1:

1. $i : \mathbb{N}$
2. $j : \mathbb{N}$
$\vdash (i * j) \in \mathbb{Z}$

2: . . . . .set predicate. . . . . NILNIL

1. $i : \mathbb{N}$
2. $j : \mathbb{N}$
$\vdash 0 \leq (i * j)$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_73877_{multiply_nat_wf}.html