Inference at $*$ 2 0 1
of proof for Lemma multiply_nat_wf:

1. $i : \mathbb{N}$
2. $j : \mathbb{Z}$
3. $j \geq 0$

$\vdash 0 \leq (i * j)$

by (\p.IntInd (get_int_arg 'hn' p) p)

1: .....downcase..... NILNIL

3. $j < 0$
4. $((j+1) \geq 0) \Rightarrow (0 \leq (i * (j+1)))$

$\vdash (j \geq 0) \Rightarrow (0 \leq (i * j))$

2: .....basecase..... NILNIL

1. $i : \mathbb{N}$

$\vdash (0 \geq 0) \Rightarrow (0 \leq (i * 0))$

3: .....upcase..... NILNIL

3. $0 < j$
4. $((j - 1) \geq 0) \Rightarrow (0 \leq (i * (j - 1)))$

$\vdash (j \geq 0) \Rightarrow (0 \leq (i * j))$

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