

Inference at \* 1 3 1 0  
of proof for Lemma fincr\_wf:

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1.  $P : \mathbb{N} \rightarrow \mathbb{P}_1$ 
2.  $\forall j:\mathbb{N}. (\forall k:\mathbb{N}. (k < j) \Rightarrow (P(k))) \Rightarrow (P(j))$ 
3.  $n : \mathbb{N}$ 
 $\vdash P(n)$ 
  by (%S%
\p. let i = var_of_hyp (get_int_arg 'hn' p) p in

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    let z = get_distinct_var 'zz' p in
  Assert
  (mk_all_term z  $\mathbb{N}$ 
    (
mk_all_term i  $\mathbb{N}$ 
      (mk_implies_term
        (mk_less_than_term (mvt i) (
mvt z))
        (concl p))))
    p)

```

1: .....assertion..... NILNIL

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 $\vdash \forall zz, n:\mathbb{N}. (n < zz) \Rightarrow (P(n))$ 
2:

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4.  $\forall zz, n:\mathbb{N}. (n < zz) \Rightarrow (P(n))$ 
 $\vdash P(n)$ 
.

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