Inference at $*$ 1 3 1 1
 of proof for Lemma fincr_wf2:

1. $P : \mathbb{N} \to \mathbb{P}_1$
2. $\forall j{:}\mathbb{N}.\ (\forall k{:}\mathbb{N}.\ (k < j) \Rightarrow (P(k))) \Rightarrow (P(j))$
3. $n : \mathbb{N}$
4. $\forall n_1{:}\mathbb{N}.\ (n_1 < n) \Rightarrow (P(n_1))$

$\vdash P(n)$

 by ((With n (D 2))
 THENW ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n
 )) (first_tok :t) inil_term)))·

 1:

 2. $n : \mathbb{N}$
 3. $\forall n_1{:}\mathbb{N}.\ (n_1 < n) \Rightarrow (P(n_1))$
 4. $(\forall k{:}\mathbb{N}.\ (k < n) \Rightarrow (P(k))) \Rightarrow (P(n))$

 $\vdash P(n)$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_82738_{fincr_wf2}1_3_1_1.html