

Inference at * 1 3
of proof for Lemma fincr_wf:

...eq aux.... NILNIL

$\vdash \downarrow \text{WellFnd}\{1\}(\mathbb{N}; u, v. (\lambda i, j. i < j)(u, v))$
by((((RW (RepeatC (UnfoldsC “wellfounded guard so_apply“)
ANDTHENC AbReduceC) 0)

CollapseTHEN (D 0))·)
CollapseTHEN (UnivCD
THENW (Auto_aux (first_nat 1:n
)((first_nat 1:n), (first_nat 3:n)) (first_tok :t) inil_term)))·

1:

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. $n : \mathbb{N}$
- $\vdash P(n)$