

Inference at * 1 2 2 2
of proof for Lemma fincr_formation:

.....falsecase..... NILNIL

1. $i : \mathbb{N}$
2. $f : \{f \mid i:\{i_1:\mathbb{N} \mid i_1 (\lambda i,j. i < j) i\} \rightarrow \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i - 1) \dots\} \text{ fi} \}$
3. $\forall j:\{k:\mathbb{N} \mid k < i\} . f(j) \in \mathbb{Z}$
4. $i \neq 0$
 $\vdash \{f(i - 1) \dots\}$
by (With $f(i - 1)+1$ (D 0))

1:wf..... NILNIL

$\vdash f(i - 1)+1 \in \mathbb{Z}$

2:

$\vdash (f(i - 1)) \leq (f(i - 1)+1)$

3:wf..... NILNIL

5. $j : \mathbb{Z}$

$\vdash ((f(i - 1)) \leq j) \in \mathbb{P}_1$

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