

Inference at * 1 1 1 1 1
of proof for Lemma inv_image_ind_tp:

....assertion.... NILNIL

1. $T : \text{Type}$
2. $r : T \rightarrow T \rightarrow \mathbb{P}$
3. $S : \text{Type}$
4. $f : S \rightarrow T$
5. $\text{WellFnd}\{i\}(T; x, y. r(x, y))$
6. $P : S \rightarrow \mathbb{P}$
7. $\forall j:S. (\forall k:S. r(f(k), f(j)) \Rightarrow P(k)) \Rightarrow P(j)$
8. S
 $\vdash \forall x:T, n:S. (f(n) = x) \Rightarrow P(n)$
by (\p.
((Thin (get_int_arg 'i' p))
CollapseTHEN (D 0)). p)

1:

8. $x : T$
 $\vdash \forall n:S. (f(n) = x) \Rightarrow P(n)$
2:wf.... NILNIL

7. $\forall j:S. (\forall k:S. r(f(k), f(j)) \Rightarrow P(k)) \Rightarrow P(j)$
 $\vdash T \in \text{Type}$

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