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

. . . . .assertion. . . . . NILNIL

1. T : Type
2. r : $T \to T \to \mathbb{P}$
3. S : Type
4. f : $S \to T$
5. WellFnd{i}(T;x,y.$r(x,y)$)
6. P : $S \to \mathbb{P}$
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))$\cdot$ p)

1:

8. x : T

$\vdash \forall n{:}S.\ (f(n) = x) \Rightarrow P(n)$

2: . . . . .wf. . . . . NILNIL

7. $\forall j{:}S.\ (\forall k{:}S.\ r(f(k),f(j)) \Rightarrow P(k)) \Rightarrow P(j)$

$\vdash T \in$ Type

.