

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

....assertion.... NILNIL

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$
2. $g : \forall i:\mathbb{N}. (\forall j:\mathbb{N}i. P(j)) \Rightarrow P(i)$
 $\vdash Y(\lambda f,x. g(x,f)) \in !\text{Void}() \rightarrow !\text{Void}()$
by ((Rewrite (HigherC YUnrollC) 0)
CollapseTHEN (Reduce 0)).

1:

$\vdash (\lambda x.g(x,Y(\lambda f,x. g(x,f)))) \in !\text{Void}() \rightarrow !\text{Void}()$

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