

Inference at *
of proof for Lemma fast-fib:

$\vdash \forall n:\mathbb{N}. \{m:\mathbb{N} \mid m = \text{fib}(n)\}$
by Assert $\forall n, a, b:\mathbb{N}.$
 $\{m:\mathbb{N} \mid$
 $\forall k:\mathbb{N}.$
 $(a = \text{fib}(k))$
 $\Rightarrow ((k \leq 0) \Rightarrow (b = 0))$
 $\Rightarrow ((0 < k) \Rightarrow (b = \text{fib}(k - 1)))$
 $\Rightarrow (m = \text{fib}(n+k))\}$

1:assertion..... NILNIL

$\vdash \forall n, a, b:\mathbb{N}.$
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2:

1. $\forall n, a, b:\mathbb{N}.$
 $\{m:\mathbb{N} \mid$
 $\forall k:\mathbb{N}.$
 $(a = \text{fib}(k))$
 $\Rightarrow ((k \leq 0) \Rightarrow (b = 0))$
 $\Rightarrow ((0 < k) \Rightarrow (b = \text{fib}(k - 1)))$
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 $\vdash \forall n:\mathbb{N}. \{m:\mathbb{N} \mid m = \text{fib}(n)\}$