Inference at $*$
of proof for Lemma less-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

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

2:

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

$\vdash \forall n{:}\mathbb{N}.\ \{m{:}\mathbb{N} \mid m = \text{fib}(n)\}$

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