Inference at $*$ 2 1 1 1
 of proof for Lemma fast-fib:

. . . . .subterm. T:t1:n

1. f :
   $\forall n$, a, b:$\mathbb{N}$.
   $\{m$:$\mathbb{N}$ |
    $\forall k$:$\mathbb{N}$.
    $(a = \text{fib}(k))$
    $\Rightarrow ((k \leq 0) \Rightarrow (b = 0))$
    $\Rightarrow ((0 < k) \Rightarrow (b = \text{fib}(k - 1)))$
    $\Rightarrow (m = \text{fib}(n+k))\}$
2. n : $\mathbb{N}$
$\vdash f(n,1,0) \in \{m$:$\mathbb{N} \mid m = \text{fib}(n)\}$
  by (Auto$\cdot$)
  CollapseTHEN (Auto')$\cdot$

   1: . . . . .set predicate. . . . . NILNIL

      $\vdash f(n,1,0) = \text{fib}(n)$
   .