Inference at $*$
of proof for Lemma primrec_add:

$\vdash\forall T$:Type, n, m:$\mathbb{N}$, b:T, c:($\{0..(n+m)^{-}\}\rightarrow T\rightarrow T$).
primrec(n+m;b;c) = primrec(n;primrec(m;b;c);$\lambda i,t.$ c(i+m,t))
by ((((RepeatFor 2 ((D 0)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term)))·)
CollapseTHEN (NatInd (-1)))·)

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t
) inil_term)))·

1:

1. T : Type
2. m : $\mathbb{N}$
3. b : T
4. c : $\{0..(0+m)^{-}\}\rightarrow T\rightarrow T$

$\vdash$ primrec(0+m;b;c) = primrec(0;primrec(m;b;c);$\lambda i,t.$ c(i+m,t))

2:

1. T : Type
2. n : $\mathbb{Z}$
3. $0 < n$
4. $\forall m$:$\mathbb{N}$, b:T, c:($\{0..((n - 1)+m)^{-}\}\rightarrow T\rightarrow T$).
primrec((n - 1)+m;b;c) = primrec(n - 1;primrec(m;b;c);$\lambda i,t.$ c(i+m,t))
5. m : $\mathbb{N}$
6. b : T
7. c : $\{0..(n+m)^{-}\}\rightarrow T\rightarrow T$

$\vdash$ primrec(n+m;b;c) = primrec(n;primrec(m;b;c);$\lambda i,t.$ c(i+m,t))

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