

Inference at * 2
of proof for Lemma can-apply-fun-exp-add-iff:

1. $A : \text{Type}$
2. $n : \mathbb{N}$
3. $m : \mathbb{N}$
4. $f : A \rightarrow (A + \text{Top})$
5. $x : A$
6. $(\uparrow \text{can-apply}(f^{\wedge} m; x)) \ \& \ (\uparrow \text{can-apply}(f^{\wedge} n; \text{do-apply}(f^{\wedge} m; x)))$

$\vdash \uparrow \text{can-apply}(f^{\wedge} n+m; x)$
by InteriorProof ((RWO "p-fun-exp-add" 0)
CollapseTHEN (Auto·)).

1:

$\vdash \uparrow \text{can-apply}(f^{\wedge} n \circ f^{\wedge} m ; x)$

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