Inference at $*$
of proof for Lemma p-compose'_wf:

$\vdash \forall A, B, C$:Type, g:$(A \to (B + \text{Top}))$, f:$(A \to B \to C)$. f o' $g \in A \to (C + \text{Top})$
by (Auto·)
CollapseTHEN ((Unfold 'p-compose\'' (0)·)
CollapseTHEN ((
(if (((first_nat 2:n)) = 0) then (Repeat (MaAutoStep)) else (RepeatFor (first_nat 2:n) (
MaAutoStep)))·)
CollapseTHEN ((Try ((Complete (Auto·))·))·)·)·)·

1:

1. A : Type
2. B : Type
3. C : Type
4. g : $A \to (B + \text{Top})$
5. $A \to B \to C$
6. x : A
7. $\neg(\uparrow\text{can-apply}(g;x))$

$\vdash g(x) \in (C + \text{Top})$

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http://www.nuprl.org/FDLcontent/p0_963683_/p20_523085_{p-compose!_wf}.html