

Inference at * 1
of proof for Lemma can-apply-compose-iff:

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

$\vdash \uparrow \text{can-apply}(f \circ g ;x)$
by ((All (RepUR “can-apply p-compose“))
CollapseTHEN (((if (0
) =0 then SplitOnConclITE else SplitOnHypITE (0)).)
THEN (Auto.)).).