

Inference at * 1
of proof for Lemma can-apply-mu':

1. $A : \text{Type}$
2. $P : A \rightarrow \mathbb{N} \rightarrow \mathbb{B}$
3. $d : \forall x:A. \text{Dec}(\exists n:\mathbb{N}. (\uparrow(P(x,n))))$
4. $x : A$

$\vdash (\uparrow \text{isl}(\{\text{p-mu-decider:ObjectId}, 1:l, i:l\}(A,P,d,x)).1)) \iff (\exists n:\mathbb{N}. (\uparrow(P(x,n))))$
by (GenConclAtAddr [1;1;1;1])
CollapseTHEN ((Thin (-1))
CollapseTHEN (((D (-1))·)

CollapseTHEN (Reduce 0)·)
CollapseTHEN (((D (-2))·)
CollapseTHEN (Reduce 0)·)

CollapseTHEN ((RepUR "p-mu" (-1))·)
CollapseTHEN (MaAuto·)·)·)·

1:

5. Top
6. $\forall i:\mathbb{N}. \neg(\uparrow(P(x,i)))$
7. $\exists n:\mathbb{N}. (\uparrow(P(x,n)))$

$\vdash \text{False}$

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