

Inference at * 1
of proof for Lemma can-apply-p-filter:

1. $T : \text{Type}$
2. $P : T \rightarrow \mathbb{P}$
3. $f : \forall x:T. \text{Dec}(P(x))$
4. $x : T$

$\vdash (\uparrow \text{isl}(\text{case } f(x) \text{ of } \text{inl}(p) => \text{inl } x \mid \text{inr}(p) => \text{inr } p)) \iff P(x)$
by (((GenConcl $f(x) = z$)
CollapseTHEN (Auto $\cdot$)) $\cdot$)
CollapseTHEN (((D (-2) $\cdot$))

CollapseTHEN (((Reduce 0)
CollapseTHEN (Auto $\cdot$)) $\cdot$)) $\cdot$

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