Inference at $*$
of proof for Lemma bool_sim_true:

$\vdash \forall b{:}\mathbb{B}.\ (b = \mathrm{tt}) \Rightarrow (b \sim \mathrm{tt})$
by ((UnivCD)
THENW ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

1:

1. $b : \mathbb{B}$
2. $b = \mathrm{tt}$

$\vdash b \sim \mathrm{tt}$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_86928_{bool_sim_true}.html