Inference at $*$
 of proof for Lemma and_assoc:

$\vdash \forall A, B, C{:}\mathbb{P}.\ (A\ \&\ B\ \&\ C) \iff (A\ \&\ B\ \&\ C)$
 by ((((RepD)
 CollapseTHENM (ProveProp))$\cdot$)
 CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))$\cdot$

  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_100707_{and_assoc}.html