Inference at $*$
 of proof for Lemma or_assoc:

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

  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_100615_{or_assoc}.html