Inference at $*$ 2
of proof for Lemma or_functionality_wrt_iff:

1. $P_1 : \mathbb{P}$
2. $P_2 : \mathbb{P}$
3. $Q_1 : \mathbb{P}$
4. $Q_2 : \mathbb{P}$
5. $P_1 \iff P_2$
6. $Q_1 \iff Q_2$
7. $P_2 \vee Q_2$

$\vdash P_1 \vee Q_1$

by ((((D 7 THENL [Sel 1 (D 0);Sel 2 (D 0)])
CollapseTHENM (HypBackchain))·)

CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·

.

---

http://www.nuprl.org/FDLcontent/p0_942988_/p121_98783_{or_functionality_wrt_iff}2.html