

- if C is a clause C & B = neep only literals with symbols on B C \ B = remove literals with symbols on B - poof in a theory: roots can be also theory lemmas (obtained from T-Backjump - for every theory lemma C: Ic = interpolant for (70 B, TC J B)

- for every clause: Ic & C J B of C & A

- (true, otherwise say at the end C, 2 P V DA G=7 P V Dz

C = Da V Oz

P6 of Mc Million - TC5 0 5 Ic = [Ic. VIcz of P & B (split over a predicate of A = A probes a disjunction)

(Ic. NIcz otherwise (split over a predicate in B = A must reflete

(I as the interpolant for A, B I a is the interpolant for A, B AFT Ic V (CLB)

BAIC + CJB

(Induction) Invarianto from Ruenmer's stides: Ic has common symbols to A and B suchest /strongest for example of computing theories interpol Example A= 17a Vb, ave 3 B = {76, 7c3 A provis a disjunction of facts (one for a, one as (a\$B) a - b vc true 76 true 76

beB(beB) b - c (bvc) A true 76

ceB(ceB) c - c bvc TbA7c which must be related by A which most be refuted by A Az 176,7c) Bz 17av b, avc3 A must only a conjunction

