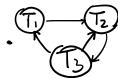
1) Build bacedence groph.



Cyclic -> not conflict - sociolizable!

• sl, (x) Y, (x) sl3(T) sl3(y) Y3(T) 13(y) xl, (y) u, (x) xl2(x) w2(x) w, (y) sl3(2) 13(2) ...

of this point Tz and Tz black eachoffer to take lock on \times and $2 \longrightarrow \text{Not 2PL}$

- . Not ACR course 13(x) reads from Wz(x) and Tz has not committed abready
- · Is zer couse in this cose Tz con lock 2 and continue.
- 2) "Accepted by timestomp losed schedulor" means that exists a serial schedule based on timestomps that is conflict equivalent - conflict socializable => view-socializable.

3) 3.000.000 t of 4 in 150.000 $\rho \rightarrow 20$ t of 4 per $\rho \rightarrow 80$ slot per ρ .

 $F = \frac{40 + 20}{2} = 30$

log 2012500 = occess first theoter

300 = 12 P to store 300 equal theortons

TOT = log = 112500 + 13 + 300 = 3 + 13 + 300 = 316 P.a.

4) Rogebored = for each page in R scon S and check each page of it (cost = B(R) + $B(R) \times B(S)$ = $5000 + 5000 \cdot 2000 = 10.005.000$ P.a.

Block boxed = lood block of Mxoges (W2=11+2)

(ost - B(E) + B(E) × (1+B(E)/H) = 5000 + 2000 . (1+50) = 107,000 P.O.

Island R for each block of

B(R)/H read all pages of S binary operatio

5) Since 70K+20K≤ 200.199.199 → 3 pass algorithm bosed on hoshing.

Cost = (2K-1) (B(R) + B(S)) = 5 (70000 + 20000) = 450 000 Pa.

Hosp each relation in 199 buckets and then remainely perform intersection one poin of time