

S3: 71(x): 75(2): 12(2): 13(y): W1(x): (4): W3(y): (3): 12(y): W2(Z): W2(y): (2): S4: ESE: T_1 T_2 T_3 T_1 T_1 T_2 T_2 T_3 T_1 T_2 T_2 T_3 T_1 T_1 T_2 T_2 T_2 T_3 T_1 T_1 81(2) 73(2) WI(X) W1(1) with with) CI W3(4) m2(4) CB $W_2(Z)$ W2(Z) 12(9) W2(2) w2(4) C2 C2 03 C2 SA S3: recoverable, Cascadeless, strict recoverable

St: Not coscadulus, not recoverable
St: recoverable, cascade us, not strict recoverable

Page -

(i) Si: Ti has snared lauce on a

To has lower priority -> It will be aborted

To get exclusive - lock on y - To non-finished

Nuitte commits and releases all lukes. To

arquired lock, proceed of finishes. To get darked

So : It has shared lock on a To has exclusive - lock

one y . To has exclusive lock on y . To

released the lock and commits . To has lock on

y and proceeds.

(ii) In deadline detection, transaction are allowed to wait they are not aborted until a deadlack hesbun detected

SI. TI has shared bock on x. T3 gets exclusive Lockon y. T3 finished, commit and related locks. Tihes exclusive lock on y. [No dead lock]

S2: Ture is a Police Cock]

SI: with consequence and strict 2PL, the sequence is easy. To acquired back on both x & y commit, release locks, then Tz than T3

So. The sequence is eary. To agrives lock onboth the commits, releases locks, then To, Jun To