

Recoveryklassifisering - oppgave

mandag 17. april 2023 12:40

$H_1 : r_1(A); w_1(A); r_2(A); w_2(A); c_2; c_1;$

$H_2 : r_1(A); w_1(A); c_1; r_2(A); w_2(A); c_2;$

$H_3 : r_1(A); w_1(A); r_2(A); w_2(A); c_1; c_2;$

$H_4 : r_2(A); w_2(B); w_1(B); c_2; r_1(A); c_1;$

Ikke gjenopprettbar

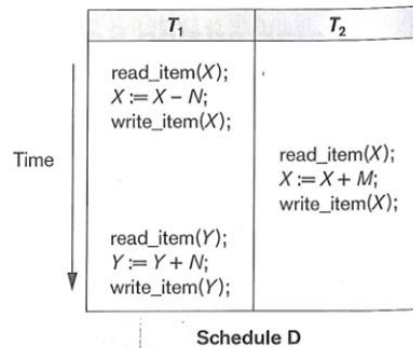
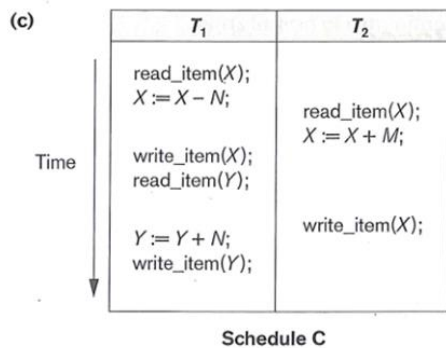
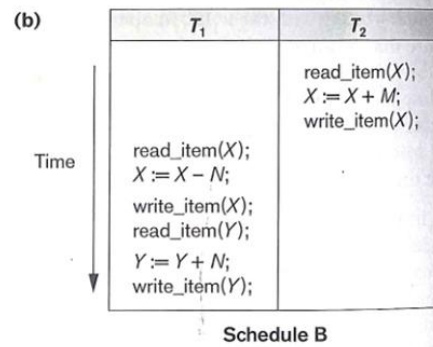
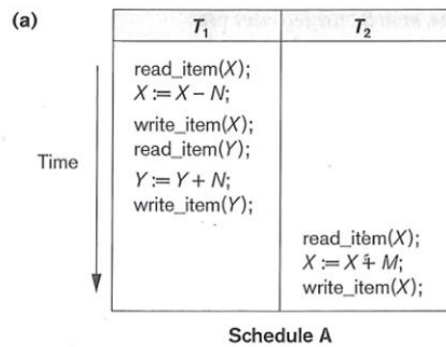
Gjenopprettbar: Hver trans. committer etter trans. de har lest fra committer

ACA: En trans. kan kun lese committede verdier.

Strict: En trans kan verken lese eller skrive ikke-committede verdier.

Serialiserbarhet - eksempel

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I utgangspunktet er $X=90$, $Y=90$. Anta $N=3$ og $M=2$.

Sch A:

Sch B:

Sch C:

Sch D:

Presedensgraf, eksempel

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- H_1 : $r_2(A)$; $r_1(B)$; $w_2(A)$; $r_3(A)$; $w_1(B)$; $w_3(A)$; $r_2(B)$; $w_2(B)$;
- H_2 : $r_2(A)$; $r_1(B)$; $w_2(A)$; $r_2(B)$; $r_3(A)$; $w_1(B)$; $w_3(A)$; $w_2(B)$;

Presedensgraf, oppgave

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a) Gitt de følgende historiene

- (1) $r_1(X)$; $r_2(Y)$; $w_3(X)$; $r_2(X)$; $r_1(Y)$
- (2) $r_1(X)$; $r_1(Y)$; $w_1(X)$; $r_2(Y)$; $w_3(Y)$; $w_1(X)$; $r_2(Y)$;
- (3) $r_2(X)$; $w_3(X)$; $w_1(Y)$; $r_2(Y)$; $w_2(Z)$;
- (4) $r_1(X)$; $w_2(X)$; $w_1(X)$; $r_3(X)$;

Låsetting - eksempel

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- $H_1: r_1(A); w_2(A); w_2(B); w_3(B); w_1(B); C_1; C_2; C_3;$
- $H_2: r_1(A); w_2(B); w_2(A); w_3(B); w_1(B); C_1; C_2; C_3;$

Låsetting - oppgave

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Anta følgende historie:

$H_4: r_1(A); r_2(B); w_1(B); w_1(C); r_2(A); c_1; c_2;$

Innfør lese- og skrive-låser (2PL - rigorous) i H_4 . Skriv om historien H_4 slik at den gjør bruk av låser.