run:

-->model

-->object

... creating object O

-->object

... creating object T

-->event

... creating event A

-->event

... creating event B

-->event

... creating event C

-->event

... creating event F

-->event

... creating event K

-->event

... creating event D

Model: Test

OBJECTO

NAME:O

INCLUDES

ATTRIBUTES

ON:String

STATES

x

b

TRANSITIONS

@new\*A=x

x\*B=x

x\*C=x

x\*F=x

OBJECTT

NAME:T

INCLUDES

ATTRIBUTES

TN:String

RC:String

STATES

y

z

v

TRANSITIONS

@new\*B=y

y\*K=z

z\*D=z

z\*F=v

EVENTA

EVENT A

ATTRIBUTES

O:REF

ON:String

EVENTB

EVENT B

ATTRIBUTES

O:REF

T:REF

TN:String

EVENTC

EVENT C

ATTRIBUTES

O:REF

EVENTF

EVENT F

ATTRIBUTES

O:REF

T:REF

EVENTK

EVENT K

ATTRIBUTES

T:REF

EVENTD

EVENT D

ATTRIBUTES

T:REF

Traces for OBJECTO

O.@new\*A=O.x-->O.x\*B=O.x-->O.x\*C=O.x-->O.x\*F=O.x-->|

O.@new\*A=O.x-->O.x\*B=O.x-->O.x\*F=O.x-->O.x\*C=O.x-->|

O.@new\*A=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->O.x\*F=O.x-->|

O.@new\*A=O.x-->O.x\*C=O.x-->O.x\*F=O.x-->O.x\*B=O.x-->|

O.@new\*A=O.x-->O.x\*F=O.x-->O.x\*B=O.x-->O.x\*C=O.x-->|

O.@new\*A=O.x-->O.x\*F=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->|

Traces for OBJECTT

T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

Disjoint algrithm for OBJECTO

Woven algrithm

====

TS: O.@new\*A=O.x-->O.x\*B=O.x-->O.x\*C=O.x-->O.x\*F=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: B B: B

woven transition: O.x&T.@new\*B=O.x&T.y

A = B

A: C B: K

A != B

C is NOT in Es and Ei

K IS in Es and Ei mt=2

A: F B: K

A != B

F IS in Es and Ei

KIS NOT in Es and Ei

woven transition: O.x&T.y\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y

A: K B: D

A != B

K is NOT in Es and Ei

D IS in Es and Ei mt=3

with tail: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y\*C=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->T.z\*D=T.z-->T.z\*F=T.v-->|

====

1)TS: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y\*C=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->T.z\*D=T.z-->T.z\*F=T.v-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

ER: Should be

A,B,C,K,F

-----------------

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: B B: B

woven transition: O.x&T.@new\*B=O.x&T.y

A = B

A: C B: K

A != B

C is NOT in Es and Ei

K IS in Es and Ei mt=2

A: K B: K

woven transition: O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y

A = B

with tail: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y\*C=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->T.z\*F=T.v-->|

====

2)TS: O.@new\*A=O.x-->O.x\*B=O.x-->O.x\*F=O.x-->O.x\*C=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

Should be : A,B,K,D,F

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: B B: B

woven transition: O.x&T.@new\*B=O.x&T.y

A = B

A: F B: K

A != B

F IS in Es and Ei

KIS NOT in Es and Ei

woven transition: O.x&T.y\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y

A: K B: D

A != B

K is NOT in Es and Ei

D IS in Es and Ei mt=2

A: C B: D

A != B

C is NOT in Es and Ei

D IS in Es and Ei mt=3

with tail: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->O.x&T.z\*C=O.x&T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

====

3) TS: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->O.x&T.z\*C=O.x&T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

Should be : A,B,K,F,C

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: B B: B

woven transition: O.x&T.@new\*B=O.x&T.y

A = B

A: K B: K

woven transition: O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y

A = B

A: C B: F

A != B

C is NOT in Es and Ei

F IS in Es and Ei mt=3

====

4) TS: O.@new\*A=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->O.x\*F=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

Should be:

A,C,B,K,D,F,

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: C B: B

A != B

C is NOT in Es and Ei

B IS in Es and Ei mt=1

A: B B: B

woven transition: O.x&T.@new\*B=O.x&T.y

A = B

A: F B: K

A != B

F IS in Es and Ei

KIS NOT in Es and Ei

woven transition: O.x&T.y\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y

A: K B: D

A != B

K is NOT in Es and Ei

D IS in Es and Ei mt=3

with tail: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*C=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->T.z\*D=T.z-->T.z\*F=T.v-->|

====

5)TS: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*C=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->T.z\*D=T.z-->T.z\*F=T.v-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

Should be

A,C,B,K,F

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: C B: B

A != B

C is NOT in Es and Ei

B IS in Es and Ei mt=1

A: B B: B

woven transition: O.x&T.@new\*B=O.x&T.y

A = B

A: K B: K

woven transition: O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y

A = B

with tail: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*C=O.x&T.@new-->O.x&T.@new\*B=O.x&T.y-->O.x&T.y&T.z\*K=O.x&T.z-->O.x&T.y\*F=O.x&T.y-->T.z\*F=T.v-->|

====

6)TS: O.@new\*A=O.x-->O.x\*C=O.x-->O.x\*F=O.x-->O.x\*B=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

Should be :

A,C,Break

B and F are in the intersection

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: C B: B

A != B

C is NOT in Es and Ei

B IS in Es and Ei mt=1

A: F B: B

A != B

F IS in Es and Ei

Deadlock

====

7) TS: O.@new&T.@new\*A=O.x&T.@new-->O.x&T.@new\*C=O.x&T.@new-->O.x\*F=O.x-->O.x\*B=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

Should be : A, C Break

B and F are in the intersection

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: C B: B

A != B

C is NOT in Es and Ei

B IS in Es and Ei mt=1

A: F B: B

A != B

F IS in Es and Ei

Deadlock

====

8)TS: O.@new\*A=O.x-->O.x\*F=O.x-->O.x\*B=O.x-->O.x\*C=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

Should be

A, Break

B and F are in the intersection

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: F B: B

A != B

F IS in Es and Ei

Deadlock

====

9)TS: O.@new&T.@new\*A=O.x&T.@new-->O.x\*F=O.x-->O.x\*B=O.x-->O.x\*C=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

Should be

A, Break

B and F are in the intersection

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: F B: B

A != B

F IS in Es and Ei

Deadlock

====

10)TS: O.@new\*A=O.x-->O.x\*F=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

Should be

A, Break

B and F are in the intersection

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: F B: B

A != B

F IS in Es and Ei

Deadlock

====

11)TS: O.@new&T.@new\*A=O.x&T.@new-->O.x\*F=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

Should be

A, Break

B and F are in the intersection

A: A B: B

A != B

A is NOT in Es and Ei

B IS in Es and Ei mt=0

A: F B: B

A != B

F IS in Es and Ei

Deadlock

ER: Should be

1)A,B,C,K,F

2)A,B,K,D,F

3)A,B,K,F,C

**4)A,C,B,K,D,F, This is absent**

5)A,C,B,K,F

6) A

O.@new&T.@new\*A=O.x&T.@new-->

O.x&T.@new\*B=O.x&T.y-->

O.x&T.y\*C=O.x&T.y-->

O.x&T.y&T.z\*K=O.x&T.z--> ER: the replacement is not good

O.x&T.y\*F=O.x&T.y--> ER: F can be only in state z

T.z\*F=T.v-->| ER: This step has been done

1)ABCKF

What is the input?

O.@new&T.@new\*A=O.x&T.@new-->

O.x&T.@new\*B=O.x&T.y-->

O.x&T.y&T.z\*K=O.x&T.z-->

O.x&T.y\*F=O.x&T.y-->ER: T.z

O.x&T.z\*C=O.x&T.z-->|

3)A,B,K,F,C

O.@new&T.@new\*A=O.x&T.@new-->

O.x&T.@new\*C=O.x&T.@new-->

O.x&T.@new\*B=O.x&T.y-->

O.x&T.y&T.z\*K=O.x&T.z-->

O.x&T.y\*F=O.x&T.y--> ER: T.z

T.z\*F=T.v-->| ER: This step has been done

4) A,C,B,K,F

4)ER:

TS: O.@new&T.@new\*A=O.x&T.@new-->O.x\*F=O.x-->O.x\*B=O.x-->O.x\*C=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

O.@new&T.@new\*A=O.x&T.@new--> Should be Break F and B both in the intersection. . No concatenation

O.x&T.@new\*C=O.x&T.@new-->

O.x\*F=O.x--> ER: Mistake Only B is possible

O.x\*B=O.x-->|

5)ER:

TS: O.@new\*A=O.x-->O.x\*F=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*D=T.z-->T.z\*F=T.v-->|

O.@new&T.@new\*A=O.x&T.@new--> Should be Break F and B both in the intersection. No concatenation

O.x\*F=O.x--> ER: Mistake Only B is possible

O.x\*B=O.x-->

O.x\*C=O.x-->|

ER: impossible

6)ER:

TS: O.@new&T.@new\*A=O.x&T.@new-->O.x\*F=O.x-->O.x\*C=O.x-->O.x\*B=O.x-->|

Ti: T.@new\*B=T.y-->T.y\*K=T.z-->T.z\*F=T.v-->|

O.@new&T.@new\*A=O.x&T.@new--> Should be Break. Should be Break F and B both in the intersection. No concatenation

O.x\*F=O.x--> ER: Mistake Only B is possible

O.x\*C=O.x-->

O.x\*B=O.x-->|

ER: Impossible

BUILD SUCCESSFUL (total time: 1 second)