

# 1 Grammar Sets

- Global Variables:  $\{a, b\}$
- Local Variables for Thread  $t_1$  :  $\{r_1, r_2\}$
- Local Variables for Thread  $t_2$  :  $\{r_3\}$
- Value Set for Thread  $t_1$  :  $\{0, 1, 2\}$

# 2 Configuration

thread t1	thread t2
(i1)create 0	(i11)read b
(i2)write a	(i12)write r3
(i3)create 1	(i13)read r3
(i4)write b $\rightarrow$ {t2}	(i14)write a
(i5)create 2	
(i6)write b	
(i7)read a	
(i8)write r1	
(i9)read a	
(i10)write r2	

# 3 Properties

thread t1	thread t2
(i1){0}	(i11){1,2} $\leftarrow$ {i4,i6}
(i2){0}	(i12){1,2}
(i3){1}	(i13){1,2} $\leftarrow$ {i12}
(i4){1}	(i14){1,2}
(i5){2}	
(i6){2}	
(i7){0,1,2} $\leftarrow$ {i2,i14}	
(i8){0,1,2}	
(i9){0,1,2} $\leftarrow$ {i2,i14}	
(i10){0,1,2}	