

1 Grammar Sets

- Global Variables: $\{a, b\}$
- Local Variables for Thread $t1$: $\{r1\}$
- Local Variables for Thread $t2$: $\{r2\}$
- Value Set for Thread $t1$: $\{0, 1\}$
- Value Set for Thread $t2$: $\{1\}$

2 Configuration

thread t1	thread t2
(i1)create 0 (i2)write a (i3)write $b \rightarrow \{t2\}$ (i4)read a (i5)write r1 (i6)read r1 (i7)if(1) (i8)create 1 (i9)write b (i10)fi	(i11)read b (i12)write r2 (i13)read r2 (i14)create 1 (i15)write a

3 Properties

thread t1	thread t2
(i1) $\{0\}$ (i2) $\{0\}$ (i3) $\{0\}$ (i4) $\{0, 1\} \leftarrow \{i2, i15\}$ (i5) $\{0, 1\}$ (i6) $\{0, 1\} \leftarrow \{i5\}$ (i7) $\{0, 1\}$ (i8) $\{1\}$ (i9) $\{1\}$ (i10) $\{1\}$	(i11) $\{0, 1\} \leftarrow \{i3, i9\}$ (i12) $\{0, 1\}$ (i13) $\{0, 1\} \leftarrow \{i12\}$ (i14) $\{1\}$ (i15) $\{1\}$