

1 Grammar Sets

- Global Variables: $\{x, y\}$
- Local Variables for Thread t1 : $\{z, r3, r1\}$
- Local Variables for Thread t2 : $\{r2\}$
- Value Set for Thread t1 : $\{0, 42\}$

2 Configuration

thread t1	thread t2
(i1)create 0 (i2)write x (i3)write y (i4)write $z \rightarrow \{t2\}$ (i5)read x (i6)write r3 (i7)read r3 (i8)if(0) (i9)create 42 (i10)write x (i11)fi (i12)read x (i13)write r1 (i14)read r1 (i15)write y	(i16)read y (i17)write r2 (i18)read r2 (i19)write x

3 Properties

thread t1	thread t2
(i1){0} (i2){0} (i3){0} (i4){0} (i5){0} $\leftarrow \{i2, i19\}$ (i6){0} (i7){0} $\leftarrow \{i6\}$ (i8){0} (i9){42} (i10){42} (i11){42} (i12){42} $\leftarrow \{i10\}$ (i13){42} (i14){42} $\leftarrow \{i13\}$ (i15){42}	(i16){0} $\leftarrow \{i3\}$ (i17){0} (i18){0} $\leftarrow \{i17\}$ (i19){0}