

1 Grammar Sets

- Global Variables: $\{p\}$
- Local Variables for Thread $t1$: $\{q, r1, r1.x, r2, r3, r3.x, r4, r5\}$
- Local Variables for Thread $t2$: $\{r6, r6.x\}$
- Value Set for Thread $t2$: $\{3\}$
- Offsets for Object $o1$: $\{x\}$

2 Configuration

thread t1	thread t2
(i1)create o1(x=0) (i2)write p (i3)write q $\rightarrow \{t2\}$ (i4)read p (i5)write r1 (i6)read r1.x (i7)write r2 (i8)read q (i9)write r3 (i10)read r3.x (i11)write r4 (i12)read r1.x (i13)write r5	(i14)read p (i15)write r6 (i16)create 3 (i17)write r6.x

3 Properties

thread t1	thread t2
(i1) $\{o1(x=0)\}$ (i2) $\{o1(x=0)\}$ (i3) $\{o1(x=0)\}$ (i4) $\{o1(x=0)\} \leftarrow \{i2\}$ (i5) $\{o1(x=0)\}$ (i6) $\{3,0\} \leftarrow \{i5,i17\}$ (i7) $\{3,0\}$ (i8) $\{o1(x=0)\} \leftarrow \{i3\}$ (i9) $\{o1(x=0)\}$ (i10) $\{3,0\} \leftarrow \{i9,i17\}$ (i11) $\{3,0\}$ (i12) $\{3,0\} \leftarrow \{i5,i17\}$ (i13) $\{3,0\}$	(i14) $\{o1(x=0)\} \leftarrow \{i2\}$ (i15) $\{o1(x=0)\}$ (i16) $\{3\}$ (i17) $\{3\}$