```
Results for CXP (in 00:00:02.184):
   NB FV: 5
   AP: AP1
   NB AP: 2
   NB_MAY: -1
   NB_MUST_MINUS: -1
   NB MUST PLUS: -1
   NB MUST SHARP: -1
   NB AS: 4
   NB AS RCHD: 1
   TAU AS: 25.00
   NB AT: 25
   NB_AT_RCHD: 5
   TAU AT: 20.00
   NB_EXPECTED_AS: 4
   NB_EXPECTED_AS_RCHD: 1
   TAU EXPECTED AS: 25.00
   NB EXPECTED AT: 25
   NB EXPECTED AT RCHD: 5
   TAU_EXPECTED_AT: 20.00
   NB CS: 48
   NB CS RCHD: 5
   NB CT: 30
   NB CT RCHD: 5
   RHO CS: 10.42
   RHO CT: 16.67
   NB TESTS: 2
   NB_STEPS: 7
TESTS:

C0g0 = blockedCHVStatus=14, blockedStatus=14, counterCHV=3, counterUnblockCHV=10, currentDirectory=1, currentFile=0, data(efad[6])=22, data(eficid[3])=19, data(efimsi[5])=21, data(efip[4])=20, data(none[0])=19, dd=28, filesChildren(dfgsm[2])=5, filesChildren(mf[1])=2, permissionRead(fenGed[6])=10, permissionRead(fenGed[6])=10, permissionRead(fenGed[6])=10, permissionRead(fenGed[6])=10, permissionRead(fenGed[6])=10, permissionSession(always[7])=11, permissionSession(btt[8])=12, permissionSession(never[9])=12, pin=15, puk=17, permissionSession(always[7])=11, permissionSession(btt[8])=12, permissionSession(never[9])=12, pin=15, puk=17, pata(efad[6])=22, data(efad[6])=22, data(efad[6])=22, data(efad[6])=21, permissionRead(fead[6])=10, permissionRead(efip[4])=20, data(none[0])=19, dd=28, filesChildren(dfgsm[2])=5, filesChildren(dfgsm[2])=11, permissionRead(fines)=12, permissionSession(never[9])=12, permissionRead(fad[6])=10, permissionRead(fad[6])=10
```

```
SET EXPECTED AS:
    SEI_EXPECIEU_AS: q0 = -(p0 = counterCHV=0), \neg (p1 = counterUnblockCHV=0)q1 = -(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)q2 = (p0 = counterCHV=0), \neg (p1 = counterUnblockCHV=0)q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
       \begin{array}{lll} SET\_RCHD\_AS: \\ q\theta = \neg(p\theta = counterCHV=\theta)\,, \ \neg(p1 = counterUnblockCHV=\theta) \end{array} 
       \begin{array}{lll} SET\_RCHD\_EXPECTED\_AS: \\ q\theta = \neg (p\overline{\theta} = counterCHV=\theta) \,, \; \neg (p1 = counterUnblockCHV=\theta) \end{array} 
      SET_EXPECTED_AT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    -[Read_Binary] -> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Reset] -> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Select_File] -> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Unblock_CHV] -> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Unblock_CHV] -> q1 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Read_Binary] -> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[Read_Binary] -> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[Select_File] -> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[Verify_CHV] -> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[Verify_CHV] -> q1 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Read_Binary] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Unblock_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Unblock_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Unblock_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Unblock_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[Verify_CHV] -> q3 = (p0 = counterCHV=0), ¬(
      g0 = \( \cap (p0 = \text{counterCHV=0} \), \( \cap (p1 = \text{counterUnblockCHV=0} \)
\( q0 = \cap (p0 = \text{counterCHV=0} \), \( \cap (p1 = \text{counterUnblockCHV=0} \)
\( q0 = \cap (p0 = \text{counterCHV=0} \), \( \cap (p1 = \text{counterUnblockCHV=0} \)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Read Binary ]-> q0 = \neg(p0 = counterCHV=0), \neg(p1 = counterUnblockCHV=0)
                          = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

= ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

= ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

= ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
                       D = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
L = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
L = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
C = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
      a1
      a1
      a2 =
      a2
                                                                                             counterCHV=0), ¬(p1 = counterUnblockCHV=0)
                                               (p0
    q2 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[
q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[
q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[
q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[
q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[
      SET_RCHD_AT:
    q0 = \(\frac{1}{0}\text{0} = \constart(\frac{1}{0}\text{0}) - \(\frac{1}{0}\text{0} = \constart(\frac{1}{0}\text{0}) - \(\frac{1}{0}\text{0} = \constart(\frac{1}{0}\text{0}) = \constart(\frac{1}{0}\text{0}) - \(\frac{1}{0}\text{0} = \constart(\frac{1}{0}\text{0}) - \(\frac{1}{0}\text{0}\text{0} - \constart(\frac{1}{0}\text{0}) - \(\frac{1}{0}\text{0}\text{0} - \constart(\frac{1}{0}\text{0}) - \(\frac{1}{0}\text{0}\text{0} - \constart(\frac{1}{0}\text{0}\text{0}) - \(\frac{1}{0}\text{0}\text{0}\text{0}\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SET RCHD EXPECTED AT:
    \label{eq:Read_Binary} $$ ] \to q0 = \neg(p0 = counterCHV=0), \  \neg(p1 = counterUnblockCHV=0) $$ Reset $$ ] \to q0 = \neg(p0 = counterCHV=0), \  \neg(p1 = counterUnblockCHV=0) $$ Select_File $$ ] \to q0 = \neg(p0 = counterCHV=0), \  \neg(p1 = counterUnblockCHV=0) $$ Unblock_CHV $$ ] \to q0 = \neg(p0 = counterCHV=0), \  \neg(p1 = counterUnblockCHV=0) $$ Verify_CHV $$ ] \to q0 = \neg(p0 = counterCHV=0), \  \neg(p1 = counterUnblockCHV=0) $$
     \begin{array}{l} \mathsf{SET\_UNRCHD\_AS:} \\ \mathsf{q1} = \neg(\mathsf{p0} = \mathsf{counterCHV=0}), \; (\mathsf{p1} = \mathsf{counterUnblockCHV=0}) \\ \mathsf{q2} = (\mathsf{p0} = \mathsf{counterCHV=0}), \; \neg(\mathsf{p1} = \mathsf{counterUnblockCHV=0}) \\ \mathsf{q3} = (\mathsf{p0} = \mathsf{counterCHV=0}), \; (\mathsf{p1} = \mathsf{counterUnblockCHV=0}) \\ \end{array} 
     \begin{array}{lll} {\sf SET\_UNRCHD\_EXPECTED\_AS:} \\ {\sf q1} = \neg({\sf p0} = {\sf counterCHV=0}) \,, & ({\sf p1} = {\sf counterUnblockCHV=0}) \\ {\sf q2} = ({\sf p0} = {\sf counterCHV=0}) \,, & \neg({\sf p1} = {\sf counterUnblockCHV=0}) \\ {\sf q3} = ({\sf p0} = {\sf counterCHV=0}) \,, & ({\sf p1} = {\sf counterUnblockCHV=0}) \\ \end{array} 
SET_UNRCHD_AT:

q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)

q2 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0)

q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
 SET_UNRCHD_AT:

q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Read_Binary ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Read_Binary ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Select_File ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0)
q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Read_Binary ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Select_File ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Nest_1 -> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnb
```

```
SET_UNRCHD_EXPECTED_AT:

q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV ]-> q1 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Read_Binary ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Read_Binary ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) q3 = (p0 = counterCHV=0), ¬(p1
```

TIME_ATS: 00:00:02.184

TIME_TESTS: 00:00:00.000