```
Results for CXPASO (in 00:00:01.393):
 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: 47
 NB CS RCHD: 4
 NB CT: 30
 NB CT RCHD: 5
 RH0 CS: 8.51
 RHO CT: 16.67
 NB TESTS: 2
NB_STEPS: 6
 C0q0 = blockedCHVStatus=14, blockedStatus=14, counterCHV=3, counterUnblockCHV=10, currentDirectory=1, currentFile=0, data(efad[6])=22, data(eficcid[3])=19, data(efimsi[5])=21, data(eftp[4])=20, data(none[0])=19, dd=28, filesChildren(dfgsm[2])=5, filesChildren(mf[1])=2, permissionRead(efad[6])=10, permissionRead(eficcid[3])=9, permissionRead(efimsi[5])=8, permissionRead(eflp[4])=7, permissionRead(none[0])=7, permissionSession(adm[10])=12, permissionSession(always[7])=11, permissionSession(chv[8])=12, permissionSession(never[9])=12, pin=15, puk=17, sw=23 -[ Verify_CHV ]-> c3q0 = blockedCHVStatus=14, blockedStatus=14, counterCHV=2, counterUnblockCHV=10, currentDirectory=1, currentFile=0,
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 \begin{array}{l} \mbox{data(efad[6])=22, data(eficcid[3])=19, data(efimsi[5])=21, data(eflp[4])=20, data(none[0])=19, dd=28, filesChildren(dfgsm[2])=5, filesChildren(mf[1])=2, permissionRead(efad[6])=10, permissionRead(eficcid[3])=9, permissionRead(efimsi[5])=8, permissionRead(eflp[4])=7, permissionSession(adm[10])=12, permissionSession(always[7])=11, permissionSession(chv[8])=12, permissionSession(never[9])=12, pin=15, puk=17, sw=26 \\ \end{array} 
      SET EXPECTED AS:
\begin{array}{lll} \text{SL} & \text{CKFLCID} \text{A3.} \\ \text{q0} & = & \text{(p0} & = & \text{counterCHV=0)}, \  \, \\ \text{q1} & = & \text{(p0} & = & \text{counterCHV=0)}, \  \, \\ \text{q2} & = & \text{(p0} & = & \text{counterCHV=0)}, \  \, \\ \text{q2} & = & \text{(p0} & = & \text{counterCHV=0)}, \  \, \\ \text{q3} & = & \text{(p0} & = & \text{counterCHV=0)}, \  \, \\ \text{q1} & = & \text{(p1)} & = & \text{counterUnblockCHV=0)} \\ \text{q3} & = & \text{(p0} & = & \text{counterCHV=0)}, \  \, \\ \text{q1} & = & \text{counterUnblockCHV=0)} \\ \end{array}
  \begin{array}{l} {\sf SET\_RCHD\_AS:} \\ {\sf q0} = \neg ({\sf p0} = {\sf counterCHV=0}) \,, \ \neg ({\sf p1} = {\sf counterUnblockCHV=0}) \end{array} 
 SET_RCHD_EXPECTED_AS:
 a\theta = \neg(p\theta) = counter(HV=0). \neg(p1 = counter(Inblock(HV=0))
 SET_EXPECTED_AT:
 q\theta = \neg(p\theta = \text{counterCHV=}\theta), \neg(p1 = \text{counterUnblockCHV=}\theta) - [

q\theta = \neg(p\theta = \text{counterCHV=}\theta), \neg(p1 = \text{counterUnblockCHV=}\theta) - [
                                                                                                                                                                                                                                                                                                                                                                                                                                            Read_Binary ]-> q0 = \neg(p0 = counterCHV=0), \neg(p1 = counterUnblockCHV=0) Reset ]-> q0 = \neg(p0 = counterCHV=0), \neg(p1 = counterUnblockCHV=0) Select_File ]-> q0 = \neg(p0 = counterCHV=0), \neg(p1 = counterUnblockCHV=0) Unblock_CHV ]-> q0 = \neg(p0 = counterCHV=0), \neg(p1 = counterUnblockCHV=0)
                    = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
= ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
                                                                                                                                                                                                                                                                                                                                                                                                                        -[ Select File ]-> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUhblockCHV=0) - [ Unblock_CHV] -> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUhblockCHV=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) - [ Unblock_CHV] -> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV] -> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV] -> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Read_Binary] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Select_File ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV] -> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV] -> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV] -> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Unblock_CHV] -> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) - [ Verify_CHV] -> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Nead_Binary] -> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Read_Binary] -> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Select_File ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Select_File ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Select_File ]-> q3 = (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), (p1 = counterUnblockCHV=0) - [ Verify_CHV]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=
                (No = counterCHV=0), ¬(p1 = counterUnblockCHV=0)

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

D = ¬(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)
 q2
 α2
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:
SET RCHD_AT: q0 = \neg(p0 = \text{counterCHV=0}), \neg(p1 = \text{counterUnblockCHV=0}) - [\\ q0 = \neg(p0 = \text{counterCHV=0}), \neg(p1 = \text{counterUnblockCHV=0}) - [\\ q0 = \neg(p0 = \text{counterCHV=0}), \neg(p1 = \text{counterUnblockCHV=0}) - [\\ q0 = \neg(p0 = \text{counterCHV=0}), \neg(p1 = \text{counterUnblockCHV=0}) - [\\ q0 = \neg(p0 = \text{counterCHV=0}), \neg(p1 = \text{counterUnblockCHV=0}) - [\\ q0 = \neg(p0 = \text{counterCHV=0}), \neg(p1 = \text{counterUnblockCHV=0}) - [
                                                                                                                                                                                                                                                                                                                                                                                                                                             \begin{array}{lll} \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} 
-[ Unblock_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Verify_CHV ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Read_Binary ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Reset ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Select_Fite ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Unblock_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Verify_CHV ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Verify_CHV ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Read_Binary ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Reset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Unblock_CHV ]-> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Unblock_CHV ]-> q0 = ¬(p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Unblock_CHV ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Unblock_CHV ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) -[ Verify_CHV ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Read_Binary ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Reset ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Reset ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Select_Fite ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) -[ Unblock_CHV ]-> q3 = (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), (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), (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), (p1 = c
 SET_UNRCHD_AT:
 | = -(p0 = counterCHV=0), -(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)
= (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0)
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) - [
q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [
  \begin{array}{l} \text{SET\_UNRCHD\_EXPECTED\_AT:} \\ \text{q0} = \neg(\text{p0} = \text{counterCHV=0}) \text{, } \neg(\text{p1} = \text{counterUnblockCHV=0}) \text{ -[ Unblock\_CHV ]-> q1} = \neg(\text{p0} = \text{counterCHV=0}) \text{, } (\text{p1} = \text{counterUnblockCHV=0}) \end{array} 
 q\theta = \neg(p\theta = counterCHV=\theta), \neg(p1 = counterUnblockCHV=\theta) - [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), \neg(p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q2 = (p\theta = counterCHV=\theta), \neg(p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = [Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta), (p1 = counterUnblockCHV=\theta) = (Verify\_CHV] -> q1 = \neg(p\theta = counterCHV=\theta)
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q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) q1 = ¬(p0 = counterCHV=0), (p1 = counterUnblockCHV=0) - [ Verify_CHV ]-> q3 = (p0 = counterCHV=0), (p1 = counterUnblockCHV=0) q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Nead_Binary ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q2 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 = counterUnblockCHV=0) = [ Neset ]-> q3 = (p0 = counterCHV=0), ¬(p1 =
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TIME\_ATS: 00:00:01.393
TIME\_TESTS: 00:00:00.000