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MODULE SetStateSpace
Set representation of state space, used by AbsJupiter.
EXTENDS JupiterCtx, JupiterSerial

RECURSIVE xForm(-, -, -, -) Transform cop in state space ss at replica r ∈ Replica.
xForm(NextCop(-, -, -, -), r, cop, ss) ≜
  LET ctxDiff ≜ ds[r] \ cop.ctx THEOREM : cop.ctx ⊆ ds[r]
  RECURSIVE xFormHelper(-, -, -)
  xFormHelper(coph, ctxDiff, xss) ≜ Return transformed xcop
  IF ctxDiff = {} THEN [xcop ↦ coph, xss ↦ xss] and new state space xss
  ELSE LET fcoph ≜ NextCop(r, coph, ss, ctxDiff)
        xcoph ≜ COT(coph, fcoph)
        xfcoph ≜ COT(fcoph, coph)
        IN xFormHelper(xcoph, ctxDiff \ {fcoph.oid},
                      xss ∪ {xcoph, xfcoph})
  IN xFormHelper(cop, ctxDiff, ss ∪ {cop})

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