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MODULE concurrentsave2

EXTENDS TLC, Integers, Naturals
CONSTANTS K, p, l0, l1, l2

--algorithm ConcurrentSimple{
  variables n = K, P1, k1, P2, k2, stop1 = 0, stop2 = 0, r;

  process ( P = 0 )
  { start0: P1 := 1;
    atom0: k1 := 0;
    while0: while ( n > 1 ) {
      c0: n := n - 1;
      c1: P1 := p * P1;
      c2: k1 := k1 + 1;
      };
    stop1: stop1 := 1 } ;
  process ( Q = 1 )
  { start1: P2 := 1;
    atome1: k2 := 0;
    while1: while ( n > 1 ) {
      d0: n := n - 1;
      d1: P2 := p * P2;
      d2: k2 := k2 + 1;
      };
    stop2: stop2 := 1 } ;
  process ( r = 2 )
  { w: await (stop2 = 1 ∧ stop1 = 1);
    if ( l0 ) { r := l1; } else { r := l2; } ; } ; }

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