

Test IO

GET ↓BCPLGD↓

EXTERNAL [DFOPRW = ↓DF:OPRW↓; DFATCH = ↓DF:ATCH↓; DFREAD = ↓DF:READ↓]

EXTERNAL [DFDTCH = ↓DF:DTCH↓; DFDBLK = ↓DF:DBLK↓; DFCLBK = ↓DF:CBLK↓]

EXTERNAL [DFWPITE = ↓DF:WRIT↓]

LET SETB(BUF,CAP,BFSZ,CHNKSZ) BE

```
[ LET NCAP = NEWCAP()
  XJR(0,1,30,NCAP, OPERCL(DFOPRW), CAP )
  BUF.0 := CAP; BUF.1 := NCAP
  BUF.2 := 0; BUF.3 := 0; BUF.4 := 0
  BUF.5 := 0; BUF.6 := CHNKSZ; BUF.7 := BFSZ
  BUF.8 := LV(BUF.11); BUF.9 := 0; BUF.10 := 0 ]
```

LET OPENR(BUF) BE

```
[ BUF.2 := 0; BUF.3 := 0; BUF.4 := BUF.7; BUF.5 := 0
  BUF.9 := BUF.6 - BUF.7
  XJ(OPERCL(DFATCH), BUF.1, BUF.5, BUF.6)
  XJ(OPERCL(DFREAD), BUF.1, BUF.2, BUF.8, BUF.7)
]
```

LET GETW(BUF) = VALOF

```
[ LET P = (BUF.8).(BUF.3)
  BUF.3 := BUF.3 + 1
  BUF.4 := BUF.4 - 1
  IF BUF.4 = 0 DO
    [ BUF.2 := BUF.2 + BUF.7
      XJ(OPERCL(DFREAD), BUF.1, BUF.2, BUF.8, BUF.7)
      BUF.9 := BUF.9 - BUF.7
      IF BUF.9 = 0 THEN
        [ XJ(OPERCL(DFDTCH), BUF.1, BUF.5, BUF.6)
          BUF.5 := BUF.5 + BUF.6
          XJ(OPERCL(DFATCH), BUF.1, BUF.5, BUF.6)
          BUF.9 := BUF.6 ]
        BUF.4 := BUF.7
        BUF.3 := 0 ]
  RESULTIS P
```

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LET CLOSER(BUF) BE

```
[ XJ(OPERCL(DFDTCH), BUF.1, BUF.5, BUF.6) ]
```

LET OPENW(BUF) BE

```
[ BUF.2 := 0; BUF.3 := 0; BUF.4 := BUF.7; BUF.5 := 0
  BUF.9 := BUF.6
  IF BUF.10 = 0 DO
    XJ(OPERCL(DFDBLK), BUF.1, 0, BUF.10)
  XJ(OPERCL(DFCLBK), BUF.1, BUF.5, BUF.6)
  BUF.10 := BUF.6
```

]

LET PUT(W, BUF) BE

```

[ (BUF.8).(BUF.3) := W
  BUF.3 := BUF.3 + 1
  BUF.4 := BUF.4 - 1
  IF BUF.4 = 0 THEN
    [ XJ(OPERCL(DFWRITE), BUF.1, BUF.2, BUF.8, BUF.7)
      BUF.2 := BUF.2 + BUF.7
      BUF.9 := BUF.9 - BUF.7
      IF BUF.9 = 0 THEN
        [ XJ(OPERCL(DFDTCH), BUF.1, BUF.5, BUF.6)
          BUF.5 := BUF.5 + BUF.6
          XJ(OPERCL(DFCBLK), BUF.1, BUF.5, BUF.6)
          BUF.10 := BUF.5 + BUF.6
          BUF.9 := BUF.6 ]
        BUF.4 := BUF.7
        BUF.3 := 0 ]
]

```

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LET CLOSEW(BUF) BE

```

[ XJ(OPERCL(DFWRITE), BUF.1, BUF.2, BUF.8, BUF.7 )
  XJ(OPERCL(DFDTCH), BUF.1, BUF.5, BUF.6) ]

```

EXTERNAL[SETCLOCKS; CLOCKS]

MANIFEST[BFSZ = 200B; CHNKSZ = 10000B]

MANIFEST[N = 30000B - BFSZ - 1]

LET TESTIO() BE

```

[ LET BUF1 = VEC ( 11 + BFSZ )
  LET BUF2 = VEC ( 11 + BFSZ )
  LET CBUF = VEC 5

  SETB( BUF1, 0, BFSZ, CHNKSZ )
  SETB( BUF2, 1, BFSZ, CHNKSZ )

  SETCLOCKS(CBUF)
  OPENW(BUF1)
  FOR I = 1 TO N DO PUT(1, BUF1)
  CLOSEW(BUF1)
  CLOCKS(CBUF)
  WRITES(↓*N*N*N↓)
  SETCLOCKS(CBUF)
  OPENR(BUF1)
  OPENW(BUF2)
  FOR I = 1 TO N DO PUT( GETW(BUF1), BUF2)
  CLOSEW(BUF2)
  CLOSER(BUF1)
  CLOCKS(CBUF)
  ABORT()
]

```

]