

harmony p 3.1 r d 2b

prs, 10/6/62

bb=1600

3/
jx, rrb
 jmp

jr, dap jx
 rpb-i

jj, lac i 11
 sal 1s
 add i 11
 add ct1
 dac ct1
 spa i 40
 clf 4
 spa 40
 stf 4

 lac i 12
 sal 1s
 add i 12
 add ct2
 dac ct2
 spa i 50
 clf 5
 spa 50
 stf 5

 lac i 13
 sal 1s
 add i 13
 add ct3
 dac ct3
 spa i 60
 lat 6
 spa 60
 lat 16
 dac ttm
 sal 1s
 add ttm
 add tme
 dac tme

ddd, lac i 1
 sad (dac ct1
 jmp cr1
 sad (dac ct2
 jmp cr2
 sad (dac ct3
 jmp cr3
 xct pni

dri, lac 0
 lio 2
 jmp i 1

cr1, lio ct1
dio 0
xct ddl
xct ddl
jmp dri

cr2, lio ct2
dio 0
xct ddl
jmp dri

cr3, lio ct3
dio 0
jmp dri

pni, xct (xct (xct ddl
ddl, opr

jq, law ddl
dap bh
lio {m
lac (jmp uu
sas ui
dio 1
jmp jj

to, iot 56
iot 20
law ui 1
dap ui
law bb
dap inc
law inp
dap jx
law tb+1
dap 11
dap 12
dap 13
cli 3
esm

inp, law nit
dac 1

in, jsp jr /fa
spi
jmp jq
dio inq
dio sum
xct ddl
xct ddl
xct pni
jsp jr /la
lac inq
dio inj
sub inj
dac inq
lac inj
add sum
dac sum
opr

ine, jsp jr /wd

inc, dio
lac i inc
add sum
dac sum
idx inc
sad (dio 7700
jmp enh
isp inq
jmp ine
jsp jr /sum
dio inj
lac inj
sub sum
sza
hlt
opr

uin, jmp in

enh, law (rpb-i
dap bh
law bb
dap inc

ui, jmp
law m
dac 1
law uu
dap ui

uu, isp inq
jmp ehg
law in
jmp ehh

ehg, law inc
ehh, dap jx
jmp jj

tme, 0
11, lac
add ct1
dac ct1
spa i 40
clf 4
spa 40
stf 4

12, lac
add ct2
dac ct2
spa i 50
clf 5
spa 50
stf 5

13, lac
add ct3
dac ct3
spa i 60
lat 6
spa 60
lat 16
add tme
sma
skp 10
jda tme /usual loop, takes 32 cycles

j, lac
 sma
 ~~jmp sp~~
 jmp sp
 dac tme
 idx j
 lac i j
 rcr 9s
 rcr 3s
 add (tb
 szf i 3
 jmp sik
 dap jpr

jpr, lac
 sar 7s
 add i jpr
 dac tv1
 cla
 rcl 6s
 add (tb
 dap 12
 cla
 rcl 6s
 add (tb
 dap jps

jps, lac
 sar 7s
 cma
 add i jps
 dac tv3
 szs i 30
 clf 3
 xct pni
 opr

ijk, idx j
 sad (lac 7600

bh, xct .
 sad (lac 7700
 jmp mq

adj, lac i 11
 sal 1s
 add i 11
 add ct1
 dac ct1
 spa i 40
 clf 4
 spa 40
 stf 4

 lac i 12
 sal 1s
 add i 12
 add ct2
 dac ct2
 spa i 50
 clf 5
 spa 50
 stf 5

 lac i 13
 sal 1s
 add i 13
 add ct3
 dac ct3
 spa i 60
 lat 6
 spa 60
 lat 16
 jmp 11

sik, szs 30
 jmp sfl

si,j, clf 3
 dap 11
 cla
 rcl 6s
 add (tb
 dap 12
 cla
 rcl 6s
 add (tb
 dap 13

 xct pni
 xct .-1
 xct .-1
 jmp ijk

sfl, dap jpr
 law tv1
 dap 11
 law tv3
 dap 13
 stf 3
 jmp jpr

```

sp,          sza i
sp1,         jmp nch /0 end
rrr,         lsm    /1 more
rpb          /input
jmp to

nch,        szs 20
jmp rrr

n,          lac (jmp to
dac 7751
hlt cla cli-opr-opr+3

m,          law bb
cli
dap j
jmp j

mq,        law bb
dap j
jmp 11

nit,        jmp .
ct1,        0
ct2,        0
ct3,        0
inq,        0
ttm,        0
inj,        0
tv1,        0
tv3,        0
sum,        0

tb,          000000 000000
              002551 002674 003023 003157 003321 003471
              003647 004034 004227 004432 004644 005067

              005323 005570 006046 006337 006643 007163
              007516 010067 010456 011064 011511 012156

              012646 013357 014114 014676 015506 016345
              017235 020157 021135 022150 023222 024335

              025513 026736 030230 031574 033214 034712
              036474 040336 042271 044317 046444 050672

              053226 055674 060461 063370 066430 071624
              075164 100674 104563 110637 115110 121564

              126454 000052

constants      end,
start n

```