

This is a trivial example of assembling and testing a program. It should work for anyone logged in to rabbit. It shows every keypress, even down to the ↵ being used to show when I press ENTER. What I type is in bold, everything else came from the computer. This sample shows just entering a program, assembling it, and single stepping through it. For anything else, see the proper documentation.

```
$ pico testprog
↵
    .makeexe
↵
    load
loop:  load
      mul
      inc
      jump  loop  ↵
```

```
$ assemble testprog
$ emulator testprog
No 'system.setup' in currecnt directory, reading '/usr/local/bin/system.setup'
instead
disc 1 from file 'maindrive:disc1', 6000 blocks
set SP to 0x80000000
set PC to 0x00000400
load file 'testprog.exe' starting at 0x00000400
```

```
> ↵
R0 = 0      R4 = 0      R8 = 0      R12= 0
R1 = 0      R5 = 0      R9 = 0      SP = 0x80000000
R2 = 0      R6 = 0      R10= 0     FP = 0x00000000
R3 = 0      R7 = 0      R11= 0     PC = 0x00000400
FLAGS = 0x00000001: R ~Z ~N ~ERR SYS IP ~VM
```

```
00000400: (02100001)  LOAD    R1, 1  > ↵

R0 = 0      R4 = 0      R8 = 0      R12= 0
R1 = 1      R5 = 0      R9 = 0      SP = 0x80000000
R2 = 0      R6 = 0      R10= 0     FP = 0x00000000
R3 = 0      R7 = 0      R11= 0     PC = 0x00000401
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM
```

```
00000401: (02200022)  LOAD    R2, 34  > ↵

R0 = 0      R4 = 0      R8 = 0      R12= 0
R1 = 1      R5 = 0      R9 = 0      SP = 0x80000000
R2 = 34     R6 = 0      R10= 0     FP = 0x00000000
R3 = 0      R7 = 0      R11= 0     PC = 0x00000402
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM
```

```
00000402: (10120000)  MUL     R1, R2  > ↵

R0 = 0      R4 = 0      R8 = 0      R12= 0
R1 = 34     R5 = 0      R9 = 0      SP = 0x80000000
R2 = 34     R6 = 0      R10= 0     FP = 0x00000000
R3 = 0      R7 = 0      R11= 0     PC = 0x00000403
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM
```

00000403: (08010000) INC R1 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 35 R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000404
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM
PC-4 = 0x00000404

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00000404: (320FFFFC) JUMP PC-4 > ↓

R0 = 0 R8 = 0 R12 = 0
R1 = 35 R9 = 0 SP = 0x80000000
R2 = 34 R10 = 0 FP = 0x00000000
R3 = 0 R11 = 0 PC = 0x00000401
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM

00000401: (02200022) LOAD R2, 34 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 35 R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000402
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM

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00000402: (10120000) MUL R1, R2 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 1190 R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000403
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM

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00000403: (08010000) INC R1 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 1191 R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000404
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM
PC-4 = 0x00000401 = 1025

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00000404: (320FFFFC) JUMP PC-4 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 1191 R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000401
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM

00000401: (02200022) LOAD R2, 34 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 1191 R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000402
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM

00000402: (10120000) MUL R1, R2 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 0x00009E2E R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000403
FLAGS = 0x00000000: R SYS IP ~VM

00000403: (08010000) > ↓

R0 = 0 R8 = 0 R12 = 0
R1 = 0x00009E2F R9 = 0 SP = 0x80000000
R2 = 34 R10 = 0 FP = 0x00000000
R3 = 0 R11 = 0 PC = 0x00000404
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM
PC-4 = 0x00000401 = 1025

00000404: (320FFFFC) JUMP PC-4 > ↓

R0 = 0 R4 = 0 R8 = 0 R12 = 0
R1 = 0x00009E2F R5 = 0 R9 = 0 SP = 0x80000000
R2 = 34 R6 = 0 R10 = 0 FP = 0x00000000
R3 = 0 R7 = 0 R11 = 0 PC = 0x00000401
FLAGS = 0x00000031: R ~Z ~N ~ERR SYS IP ~VM

00000401: (02200022) LOAD R2, 34 > [control-c]

> [control-c]

> [control-c]

\$ ls -l testprog* ↓

-rw-r--r-- 1 srabag class 81 Sep 21 17:34 testprog.ass

-rw-r--r-- 1 srabag class 20 Sep 21 17:34 testprog.exe

\$

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