

HP-41C Routine Listing of 8K PPC Custom ROM SM  
PPC Calculator Journal V8 N2 P5/5 Mar-Apr 1981

```
01 LBL "SM"      ;Stack to Memory - XROM 20,55
02 XEQ 04
03 XEQ 04
04 XEQ 04
05 XEQ 04
06 LASTX
07 STO IND 06
08 4
09 ST- 06
10 RTN
11 LBL 04
12 STO IND 06
13 RDN
14 1
15 ST+ 06
16 RDN
17 RTN          ;SW (Line 18) was renamed to SE in PPC ROM
18 LBL "SW"      ;Selection Without Replacement - XROM 20,56
19 XROM 20,16    ;RN (Random Number Generator)
20 RCL 07
21 *
22 RCL 06
23 ST+ Y
24 DSE 07
25 ""           ;F0=null string (NOP)
26 RCL 07
27 +
28 RCL IND X
29 X<> IND Z
30 STO IND Y
31 RTN
32 LBL "XL"      ;XROM Inputs for LB - XROM 20,57
33 X<>Y
34 640
35 +
36 64
37 *
38 +
39 256
40 XROM 10,54    ;QR (Quotient Remainder)
41 X<>Y
42 RTN
43 LBL "VF"      ;View Flags - XROM 20,58
44 50
45 FC? 50
46 XROM 10,49    ;IF (Invert Flag)
47 "\05\50\00\00\00\00" ;05 hex, character P, 4 nulls
48 RCL M
49 SIGN
50 "\04\A8\00\80\01" ;04A8008001 hex
51 X<> M
52 4
53 RDN
54 "FLAGS SET:"
55 X<> d
56 XROM 10,07    ;VA (View Alpha)
57 X<> d
58 CLA
59 LBL 01
60 FS? IND L
61 XEQ 02
62 ISG L
63 GTO 01
64 X<> d
65 FC?C 24
66 XROM 10,07    ;VA (View Alpha)
67 ADV
```

```
68 BEEP
69 X<> d
70 RDN
71 RTN
72 LBL 02
73 >" " ;Append 1 space
74 X<> d
75 ARCL L
76 CF 24
77 DSE T
78 GTO 03
79 XROM 10,07 ; VA (View Alpha)
80 TONE 6
81 CLA
82 4
83 RDN
84 SF 24
85 LBL 03
86 X<> d
87 END
```

```
00B6C600F300534DE00004E00004E00004E000047691861493
0685059186751192067585CC04F3005357A510274226927297
07F0274090F3CEF191F285C803F300584C7116141040161442
40121516A2B67185C203F30056461510AD32A2B1F605500000
000090757AF504A8008001CE751475FA464C41475320534554
3ACE7EA287CE7E8702ACF4E000029674B200CE7EAB18A2878F
86CE7E758503F27F20CE7E9B74A9189770B400A2879F068714
75A81804CE7EC00E0965
```

```
182 BYTES
```

Program Registers Needed: 26

Row 1 (1 - 4)



Row 2 (4 - 11)



Row 3 (12 - 18)



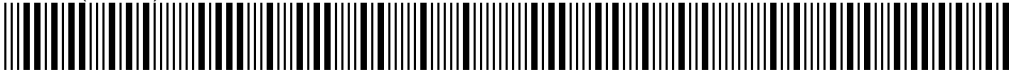
Row 4 (18 - 27)



Row 5 (28 - 32)



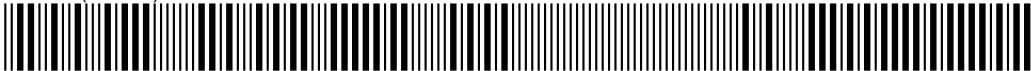
Row 6 (33 - 40)



Row 7 (40 - 45)



Row 8 (46 - 50)



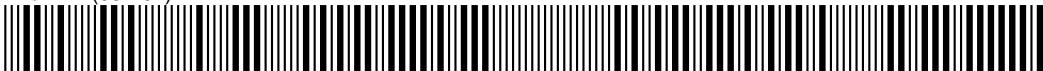
Row 9 (50 - 54)



Row 10 (54 - 57)



Row 11 (58 - 64)



Row 12 (65 - 73)



Row 13 (73 - 79)



Row 14 (80 - 87)

