

HP-41C The Compleat Cursor by Robert Swanson
PPC Calculator Journal V9 N7 P63 Oct-Nov 1982
Uses HP-IL, Video Interface, EF/Memory module

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01 LBL "VIDEO" ;Cursor Maneuvering Program
02 LBL "V"      ;Entry point for subroutine
03 RDN
04 GTO IND T
05 LBL D        ;Normal print, lower case
06 LBL 21
07 32
08 GTO 35
09 LBL e        ;Inverse print, upper case
10 LBL 22
11 128
12 GTO 35
13 LBL d        ;Inverse print, lower case
14 LBL 23
15 160
16 GTO 35
17 LBL E        ;Print ALPHA text or dividers
18 LBL 00
19 GTO 98
20 LBL 01        ;Cursor up
21 "\1BA"       ;1B41 hex
22 GTO 31
23 LBL 02        ;Cursor down
24 "\1BB"       ;1B42 hex
25 GTO 31
26 LBL 03        ;Cursor right
27 "\1BC"       ;1B43 hex
28 GTO 31
29 LBL 04        ;Cursor left
30 "\1BD"       ;1B44 hex
31 GTO 31
32 LBL 05        ;New page
33 "\1BE"       ;1B45 hex
34 GTO 97
35 LBL 06        ;Cursor home
36 "\1BH"       ;1B48 hex
37 GTO 97
38 LBL 07        ;Erase rest of page
39 "\1BJ"       ;1B4A hex
40 GTO 97
41 LBL 08        ;Arrow cursor
42 "\1BQ"       ;1B51 hex
43 GTO 97
44 LBL 09        ;Block cursor
45 "\1BR"       ;1B52 hex
46 GTO 97
47 LBL 10        ;Roll up n lines
48 "\1BS"       ;1B53 hex
49 GTO 31
50 LBL 11        ;Roll down n lines
51 "\1BT"       ;1B54 hex
52 GTO 31
53 LBL 12        ;Cursor OFF
54 "\1B<"       ;1B3C hex
55 GTO 97
56 LBL 13        ;Cursor ON
57 "\1B>"       ;1B3E hex
58 GTO 97
59 LBL 14        ;Cursor to address C,R
60 "\1B%"       ;1B25 hex
61 X<>Y
62 64
63 +
64 XROM 25,47 ;XTOA
65 X<> L
66 +
```

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67 XROM 25,47 ;XTOA
68 GTO 97
69 LBL 15      ;Erase 1 character
70 "\08"      ;08 hex
71 GTO 97
72 LBL 16      ;New line
73 "\0A"      ;0A hex
74 GTO 31
75 LBL 17      ;Carriage return
76 "\0D"      ;0D hex
77 GTO 97
78 LBL 18      ;Erase n characters
79 " "        ;1 space
80 GTO 31
81 LBL 19      ;Print inverted character n times
82 128
83 ST+ Z
84 RDN
85 LBL 20      ;Print regular character n times
86 X<>Y
87 CLA
88 XROM 25,47 ;XTOA
89 X<>Y
90 LBL 31      ;Print sequences repeated n times
91 ASTO Y
92 STO Z
93 6
94 CF 02
95 X<=Y?
96 SF 02
97 MOD
98 ST- T
99 R^
100 LASTX
101 /
102 FS? 02
103 XEQ 02
104 RDN
105 X=0?
106 GTO 99
107 CLA
108 LBL 32      ;Replace ALPHA with copies of Y
109 ARCL Y
110 DSE X
111 GTO 32
112 GTO 97
113 LBL 35      ;Move additive term (32, 128, 160)
114 SIGN       ;to L, and n into X
115 RDN
116 XROM 25,01 ;ALENG
117 LBL 36      ;Replace ALPHA with new string
118 XROM 25,07 ;ATOX
119 LASTX
120 +
121 XROM 25,47 ;XTOA
122 RDN
123 DSE X
124 GTO 36
125 RDN
126 GTO 98
127 LBL 02      ;Move 6 copies of T into ALPHA
128 ARCL T
129 ARCL T
130 ASTO T
131 ARCL T
132 GTO 98
133 LBL 97
134 1
135 LBL 98
136 SF 17

```

```

137 XROM 28,35 ;OUTA
138 DSE X
139 GTO 98
140 FS?C 02
141 RTN
142 LBL 99 ;Finish the program
143 CF 17
144 RTN
145 GTO "V"
146 END

```

```

0135C000F600564944454FC000F2005675AE70CF69CF151312
D00023CF7FCF16111218D00023CF7ECF17111610D00023CF6A
01D0006202F21B41D0001F03F21B42D0001F04F21B43D0001F
05F21B44D0001F06F21B45D0006107F21B48D0006108F21B4A
D0006109F21B51D000610AF21B52D000610BF21B53D0001F0C
F21B54D0001F0DF21B3CD000610EF21B3ED000610FF21B2571
161440A66FCE7440A66FD00061CF0FF108D00061CF10F10AD0
001FCF11F10DD00061CF12F120D0001FCF13111218927175CF
147187A66F71CF1F9A72917116A90246A8024B9370747643AC
02E000027567D0006387CF209B729773D00020D00061CF237A
75A641CF24A6477640A66F759773D0002475D00062039B709B
709A709B70D00062CF6111CF62A811A7239773D00062AA0285
CF63A911851DF156C0000D19

```

309 BYTES

HP-41C Cheerleader Program by Robert Swanson
 PPC Calculator Journal V9 N7 P63 Oct-Nov 1982
 Program calls routine "V" from VIDEO program.

```

01 LBL "PPC" ;Cheerleader Demonstration Pgm
02 "PPC"
03 1
04 ENTER
05 22
06 XEQ "V"
07 ASTO 07
08 5
09 XEQ "V"
10 CLA
11 ARCL 07
12 ">" " ;Append 4 spaces
13 73
14 ENTER
15 98
16 GTO "V"
17 LBL "P"
18 5
19 XEQ "V"
20 " " ;2 spaces
21 22
22 XEQ "V"
23 ASTO 00
24 5
25 XEQ "V"
26 XEQ 40
27 XEQ 42
28 RCL 01
29 7
30 ENTER
31 14
32 XEQ "V"
33 XEQ 43
34 18
35 STO 01
36 5.006
37 STO 02
38 XEQ 41
39 6

```

```

40 GTO "V"
41 LBL 40
42 12
43 STO 01
44 5.01
45 STO 02
46 LBL 41
47 RCL 01
48 RCL 02
49 14
50 XEQ "V"
51 CLA
52 ARCL 00
53 97
54 XEQ "V"
55 ISG 02
56 GTO 41
57 RTN
58 LBL 42
59 RCL 01
60 4
61 ENTER
62 14
63 XEQ "V"
64 LBL 43
65 CLA
66 ARCL 00
67 4
68 ENTER
69 98
70 XEQ "V"
71 RTN
72 LBL "CC"
73 5
74 XEQ "V"
75 XEQ 40
76 2
77 ENTER
78 X^2
79 XEQ "V"
80 XEQ 43
81 XEQ 42
82 6
83 XEQ "V"
84 END

```

```

00B9C000F400505043F3505043118312121EF1569A07151EF1
56879B07F57F2020202017138319181DF156C000F20050151E
F156F2202012121EF1569A00151EF156E00028E0002A211783
11141EF156E0002B111831151A10101632E00029161DF156CF
28111231151A101132CF29212211141EF156879B0019171EF1
569602D0002985CF2A21148311141EF156CF2B879B00148319
181EF15685C000F3004343151EF156E000281283511EF156E0
002BE0002A161EF156C0000DA9

```

185 BYTES

HP-41C The Compleat Cursor by Robert Swanson PPC V9 N7 P63 Oct-Nov 1982

Program Registers Needed: 45

Row 1 (1 - 2)



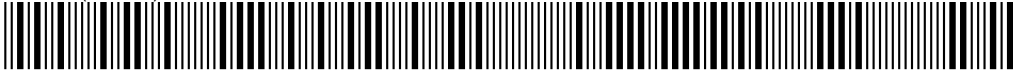
Row 2 (2 - 8)



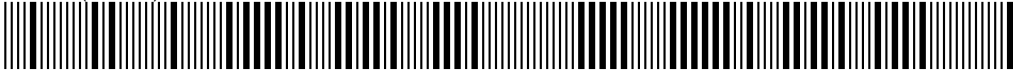
Row 3 (9 - 14)



Row 4 (14 - 19)



Row 5 (20 - 25)



Row 6 (25 - 31)



Row 7 (31 - 36)



Row 8 (37 - 42)



Row 9 (42 - 48)



Row 10 (48 - 53)



Row 11 (54 - 58)



Row 12 (59 - 66)



Row 13 (67 - 72)



Row 14 (72 - 77)



Row 15 (78 - 83)



Row 16 (83 - 91)



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Row 17 (92 - 100)



Row 18 (101 - 108)



Row 19 (108 - 113)



Row 20 (114 - 122)



Row 21 (123 - 129)



Row 22 (129 - 135)



Row 23 (136 - 142)



Row 24 (142 - 146)



HP-41C Cheerleader Program by Robert Swanson PPC V9 N7 P63 Oct-Nov 1982

Program Registers Needed: 27

Row 1 (1 - 4)



Row 2 (5 - 11)



Row 3 (11 - 16)



Row 4 (16 - 20)



Row 5 (20 - 26)



Row 6 (26 - 32)



Row 7 (33 - 38)



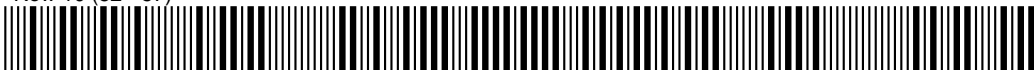
Row 8 (38 - 44)



Row 9 (44 - 51)



Row 10 (52 - 57)



Row 11 (58 - 65)



Row 12 (66 - 72)



Row 13 (72 - 78)



Row 14 (79 - 83)



Row 15 (84)

