

HP-41C Synthetic Text Line Printer by Jeremy Smith
 PPC Calculator Journal Volume 10 No 4 P35 May 1983
 Extended Functions Module is needed to run program

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01 LBL "T"                ;Synthetic Text Line Printer
02 SF 25
03 CF 29
04 FIX 0
05 XROM 28,36             ;PWRDN
06 "\1B&k1H"             ;1B266B3148 hex
07 XROM 28,35             ;OUTA
08 "L#: SYNTHETIC "
09 >"TEXT LINES"
10 XROM 29,08             ;PRA
11 "---- "               ;3 dashes, 1 space
12 XROM 29,01             ;ACA
13 "-----"             ;5 dashes
14 XROM 29,01             ;ACA
15 XROM 29,01             ;ACA
16 XROM 29,01             ;ACA
17 XROM 29,01             ;ACA
18 XROM 29,10             ;PRBUF
19 "\00\7F"              ;007F hex
20 RTN
21 LBL "TL"               ;Text Lines
22 E10
23 >"\00\00\00\00\00\00" ;Append 6 nulls
24 STO P
25 >"\00\00\00\00\00\00" ;Append 6 nulls
26 RCL P
27 STO 01
28 RDN
29 STO P
30 >"\00\00\00\00\00\00" ;Append 6 nulls
31 X<> P
32 STO 02
33 >"\00\00\00\00\00\00" ;Append 6 nulls
34 RCL P
35 STO 03
36 R^
37 R^
38 STO M
39 >"\00\00\00\00\00"    ;Append 5 nulls
40 CLX
41 STO N
42 >"\00"                ;Append 1 null
43 X<> N
44 XROM 25,07             ;ATOX
45 X<>Y
46 STO M
47 RDN
48 XROM 25,07             ;ATOX
49 16
50 MOD
51 +
52 E2
53 X>Y?
54 " "                   ;1 space
55 SQRT
56 X>Y?
57 >"0"                  ;Append number 0
58 ARCL Y
59 >":"                  ;Append 1 colon
60 XROM 29,01             ;ACA
61 R^
62 STO M
63 >"\00\00\00\00\00"    ;Append 5 nulls
64 RCL M
65 .
66 >"\00"                ;Append 1 null

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67 X<> M
68 XROM 25,07          ;ATOX
69 128
70 X<=Y?
71 GTO 00
72 8
73 /
74 X<>Y
75 STO T
76 X<>Y
77 MOD
78 ST- Z
79 LASTX
80 ST/ T
81 RDN
82 2
83 R^
84 *
85 +
86 XROM 25,47          ;XTOA
87 CLX
88 X<> M
89 STO N
90 R^
91 STO M
92 >"\00"              ;Append 1 null
93 CLX
94 X<> N
95 X<> M
96 >"\00\00\00\00\00" ;Append 5 nulls
97 X<> M
98 RDN
99 LBL 00
100 R^
101 X<> M
102 >"\00\00"           ;Append 2 nulls
103 X<> N
104 RCL 03
105 STO M
106 >"\00"              ;Append 1 null
107 RCL 02
108 STO N
109 >"\00"              ;Append 1 null
110 RCL 01
111 STO O
112 >"\00"              ;Append 1 null
113 CLX
114 STO P
115 >"\00"              ;Append 1 null
116 X<> P
117 X<> O
118 X<> N
119 X<> M
120 R^
121 240
122 XROM 25,01          ;ALENG
123 +
124 XROM 29,05          ;ACX
125 X<>Y
126 X<> L
127 GTO 03
128 LBL 01
129 XROM 25,01          ;ALENG
130 X=Y?
131 GTO 03
132 CLX
133 GTO 02
134 LBL 03
135 XROM 25,07          ;ATOX
136 LBL 02

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137 XROM 29,05          ;ACX
138 RDN
139 DSE X
140 GTO 01
141 XROM 29,10          ;PRBUF
142 XEQ 14
143 LBL 14
144 SF 14
145 RCL b
146 FC?C 14
147 GTO 14
148 STO M
149 >"\00\00\00\00"    ;Append 5 nulls
150 LASTX
151 STO N
152 >"\00\00"          ;Append 2 nulls
153 RCL N
154 STO b
155 LBL 14
156 " SST"
157 ASTO X
158 "\00\7F"           ;007F hex
159 TONE 9
160 STOP
161 END

```

```

017AC000F20054A819A91D9C00A724F51B266B3148A723FE4C
233A2053594E54484554494320FB7F54455854204C494E4553
A748F42D2D2D20A741F52D2D2D2DA741A741A741A741A74A
F2007F85C000F300544C1B1110F77F00000000000009178F77F
000000000000907831759178F77F0000000000000CE7832F77F
00000000000090783374749175F67F0000000000779176F27F
00CE76A64771917575A64711164B401B1245F1205245F27F30
9B72F27F3AA741749175F67F000000000090751AF27F00CE75
A64711121846B1001843719170714B93717695707512744240
A66F77CE759176749175F27F0077CE76CE75F67F0000000000
CE75750174CE75F37F0000CE76239175F27F00229176F27F00
219177F27F00779178F27F00CE78CE77CE76CE7574121410A6
4140A74571CE74B40002A64178B40077B30004A64703A74575
9773B200A74AE0000E0FA80E907CAB0EBF009175F67F000000
0000769176F37F00009076917C0FF4205353549A73F2007F9F
0984C0000D9F

```

378 BYTES

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Program Registers Needed: 54

Row 1 (1 - 5)



Row 2 (6 - 8)



Row 3 (8 - 9)



Row 4 (9 - 11)



Row 5 (11 - 14)



Row 6 (15 - 21)



Row 7 (21 - 23)



Row 8 (23 - 25)



Row 9 (26 - 30)



Row 10 (30 - 34)



Row 11 (34 - 39)



Row 12 (40 - 46)



Row 13 (47 - 55)



Row 14 (56 - 62)



Row 15 (62 - 66)



Row 16 (66 - 73)



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Row 17 (74 - 83)



Row 18 (84 - 92)



Row 19 (92 - 96)



Row 20 (96 - 103)



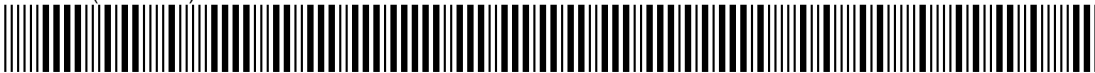
Row 21 (103 - 109)



Row 22 (110 - 116)



Row 23 (116 - 122)



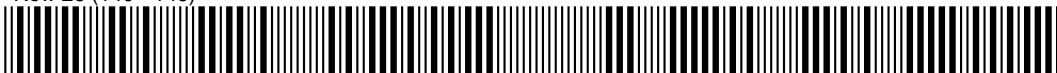
Row 24 (123 - 131)



Row 25 (131 - 139)



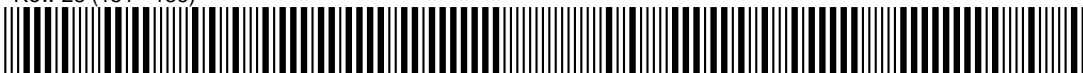
Row 26 (140 - 146)



Row 27 (146 - 150)



Row 28 (151 - 156)



Row 29 (156 - 161)



Row 30 (161)

