

HP-41C ASCII To/From Main Program by Richard Kimmel
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Program uses Extended Functions/Memory and PPC ROM.

```
01 LBL "AS^M" ;ASCII to Main
02 ASTO 00
03 CLX
04 XROM 25,43 ;SEEKPTA
05 XROM 25,44 ;SIZE?
06 XROM 25,15 ;FLSIZE
07 1.5
08 *
09 7
10 +
11 X>Y?
12 XROM 25,30 ;PSIZE
13 6
14 STO 02
15 7.006
16 STO 05
17 .006
18 STO 03
19 CLA
20 ASTO 01
21 ASTO 06
22 CF 17
23 LBL 01
24 CLX
25 FC? 17
26 STO 04
27 SF 25
28 XROM 25,20 ;GETREC
29 FS?C 25
30 GTO 00
31 CLST
32 CLA
33 ARCL 00
34 RTN
35 LBL 00
36 FS? 17
37 GTO 03
38 LBL 02
39 ISG 03
40 GTO 03
41 RCL 05
42 ENTER
43 INT
44 STO 02
45 X<>Y
46 FRC
47 E3
48 *
49 2
50 +
51 XEQ 99
52 1
53 -
54 RCL 02
55 -
56 E6
57 /
58 RCL 02
59 1
60 +
61 E3
62 /
63 +
64 RCL 02
65 +
66 XROM 25,35 ;REGMOVE
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67 RCL 01
68 STO IND 02
69 1.001
70 ST+ 05
71 1.006
72 STO 03
73 LBL 03
74 XROM 25,01 ;ALENG
75 6
76 /
77 ENTER
78 INT
79 X<>Y
80 FRC
81 X>0?
82 ISG Y
83 "" ;F0=null string (NOP)
84 RDN
85 ST+ 04
86 STO Y
87 E3
88 /
89 ST+ 05
90 CLX
91 RCL 05
92 FRC
93 E3
94 *
95 1
96 +
97 XEQ 99
98 1
99 -
100 1.001
101 *
102 RCL Y
103 -
104 1
105 +
106 XROM 20,53 ;AM - PPC ROM Alpha to Memory
107 FS? 17
108 GTO 01
109 CLA
110 ARCL IND 02
111 RCL 04
112 XROM 25,47 ;XTOA
113 ASTO IND 02
114 GTO 01
115 LBL 99
116 XROM 25,44 ;SIZE?
117 X>Y?
118 GTO 98
119 CLX
120 RCL Y
121 10
122 +
123 XROM 25,30 ;PSIZE
124 LBL 98
125 RDN
126 RTN
127 LBL "M^AS" ;Main to ASCII
128 XROM 25,08 ;CLFL
129 ASTO 00
130 RCL 05
131 INT
132 STO 04
133 1
134 -
135 E3
136 /

```

```

137 ST+ 04
138 6
139 +
140 STO 03
141 LBL 20
142 RCL IND 03
143 ENTER
144 LBL 11
145 CLA
146 ARCL Y
147 XROM 25,07 ;ATOX
148 ASTO Y
149 X=0?
150 GTO 13
151 E3
152 /
153 ST+ 04
154 CLA
155 ARCL IND 04
156 XROM 25,04 ;APPREC
157 ISG 04
158 GTO 12
159 GTO 11
160 LBL 12
161 CLA
162 ARCL IND 04
163 XROM 25,03 ;APPCHR
164 ISG 04
165 GTO 12
166 GTO 11
167 LBL 13
168 ISG 03
169 GTO 20
170 CLST
171 CLA
172 ARCL 00
173 END

```

```

011FC000F50041535E4D9A0077A66BA66CA64F111A15421740
45A65E1632171A101016351A10101633879A019A06A9110277
AD1134A819A654AA19B10073879B008501AC11B400039603B4
002583683271691B13421240E00063114122411B1643221140
1B1343402240A663219182111A1010119205111A1010163304
A641164383687169649672F075920491721B13439205772569
1B13421140E000631141111A101011429072411140A535AC11
B200879B8224A66F9A82B200CF63A66C45D000627790721110
40A65ECF627585C000F5004D5E4153A6489A0025683411411B
13439204164033CF149083830C879B72A6479A7267BE001B13
439204879B84A6449604BD00BC000D879B84A6439604BD00BC
000E9603D0001473879B00C0000DA8

```

287 BYTES

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Program Registers Needed: 41

Row 1 (1 - 4)



Row 2 (5 - 12)



Row 3 (13 - 18)



Row 4 (19 - 27)



Row 5 (27 - 35)



Row 6 (36 - 44)



Row 7 (45 - 54)



Row 8 (55 - 65)



Row 9 (66 - 71)



Row 10 (71 - 79)



Row 11 (80 - 88)



Row 12 (89 - 97)



Row 13 (98 - 105)



Row 14 (106 - 113)



Row 15 (113 - 120)



Row 16 (120 - 127)



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Row 17 (127 - 133)



Row 18 (134 - 142)



Row 19 (143 - 151)



Row 20 (151 - 158)



Row 21 (159 - 166)



Row 22 (166 - 173)



Row 23 (173)

