

HP-41C Compiled Morse Code Program by Clifford Stern
PPC Calculator Journal Vol 8 Number 3 Pg 11 May 1981

```
01 LBL "MC"      ;Morse Code Program
02 SF 26
03 "\2C\01\80\81" ;2C018081 hex
04 X<> M
05 X<> d
06 RCL b
07 FC?C 26
08 GTO 01
09 CLA
10 ASTO Z
11 X<> M
12 SIGN
13 ASTO X
14 "\1D"          ;1D hex is 'not equal' sign
15 ARCL X
16 ASTO b
17 LBL 01
18 SF 26
19 "CHARACTERS?"
20 PROMPT
21 FC?C 23
22 GTO 06
23 VIEW Z
24 CF 26
25 CLX
26 ENTER
27 X<> P
28 X=Y?
29 GTO 02
30 SF 05
31 X<> O
32 X<> N
33 X<> M
34 X<>Y
35 LBL 02
36 >"\00"         ;Append 1 null
37 X<> P
38 X=0?
39 GTO 02
40 STO P
41 RDN
42 0
43 FC?C 29
44 GTO 05
45 XEQ 05
46 RCL IND L
47 STO b
48 LBL 03
49 STO IND L
50 RDN
51 LBL 04
52 .
53 >"\00"         ;Append 1 null
54 LBL 05
55 X<> P
56 RDN
57 SF 25
58 XEQ IND T
59 ISG L
60 RTN
61 FS?C 25
62 GTO 03
63 FS? 26
64 GTO 07
65 DSE L
66 FC?C 05
67 GTO 01
```

```

68 STO O
69 GTO 04
70 LBL 06
71 LASTX
72 E3
73 +
74 LASTX
75 /
76 STO 00
77 SIGN
78 R^
79 STO d
80 RCL 01
81 STO b
82 LBL 07
83 RCL 00
84 SIGN
85 STOP
86 LBL 10
87 RCL 01
88 STO b
89 LBL ":" ;Colon = ---...
90 RCL b
91 TONE 8
92 TONE 8
93 TONE 8
94 TONE P
95 TONE P
96 TONE P
97 RTN
98 LBL "-" ;Dash = -....-
99 RCL b
100 TONE 8
101 TONE P
102 TONE P
103 TONE P
104 TONE P
105 TONE 8
106 RTN
107 LBL "?" ;Question Mark = ..---..
108 RCL b
109 TONE P
110 TONE P
111 TONE 8
112 TONE 8
113 TONE P
114 TONE P
115 RTN
116 LBL "." ;Period = .-.-.-
117 RCL b
118 TONE P
119 TONE 8
120 TONE P
121 TONE 8
122 TONE P
123 TONE 8
124 RTN
125 LBL "," ;Comma = --.---
126 LBL b
127 TONE 8
128 TONE 8
129 TONE P
130 TONE P
131 TONE 8
132 TONE 8
133 RTN
134 LBL "0" ;Number 0 = -----
135 RCL b
136 TONE 8
137 TONE 8

```

138 TONE 8
139 TONE 8
140 TONE 8
141 RTN
142 LBL "9" ;Number 9 = ----.
143 RCL b
144 TONE 8
145 TONE 8
146 TONE 8
147 TONE 8
148 TONE P
149 RTN
150 LBL "8" ;Number 8 = ---..
151 RCL b
152 TONE 8
153 TONE 8
154 TONE 8
155 TONE P
156 TONE P
157 RTN
158 LBL "7" ;Number 7 = --...
159 RCL b
160 TONE 8
161 TONE 8
162 TONE P
163 TONE P
164 TONE P
165 RTN
166 LBL "6" ;Number 6 = -....
167 RCL b
168 TONE 8
169 TONE P
170 TONE P
171 TONE P
172 TONE P
173 RTN
174 LBL "5" ;Number 5 =
175 RCL b
176 TONE P
177 TONE P
178 TONE P
179 TONE P
180 TONE P
181 RTN
182 LBL "4" ;Number 4 =-
183 RCL b
184 TONE P
185 TONE P
186 TONE P
187 TONE P
188 TONE 8
189 RTN
190 LBL "3" ;Number 3 = ...--
191 RCL b
192 TONE P
193 TONE P
194 TONE P
195 TONE 8
196 TONE 8
197 RTN
198 LBL "2" ;Number 2 = ..---
199 RCL b
200 TONE P
201 TONE P
202 TONE 8
203 TONE 8
204 TONE 8
205 RTN
206 LBL "1" ;Number 1 = .----
207 RCL b

208 TONE P
209 TONE 8
210 TONE 8
211 TONE 8
212 TONE 8
213 RTN
214 LBL "Z" ;Letter Z = --..
215 RCL b
216 TONE 8
217 TONE 8
218 TONE P
219 TONE P
220 RTN
221 LBL "Q" ;Letter Q = --.-
222 RCL b
223 TONE 8
224 TONE 8
225 TONE P
226 TONE 8
227 RTN
228 LBL "J" ;Letter J = .---
229 RCL b
230 TONE P
231 TONE 8
232 TONE 8
233 TONE 8
234 RTN
235 LBL "X" ;Letter X = -...-
236 RCL b
237 TONE 8
238 TONE P
239 TONE P
240 TONE 8
241 RTN
242 LBL "K" ;Letter K = -.-
243 RCL b
244 TONE 8
245 TONE P
246 TONE 8
247 RTN
248 LBL "V" ;Letter V = ...-
249 RCL b
250 TONE P
251 TONE P
252 TONE P
253 TONE 8
254 RTN
255 LBL "B" ;Letter B = -...
256 RCL b
257 TONE 8
258 TONE P
259 TONE P
260 TONE P
261 RTN
262 LBL "G" ;Letter G = --.
263 RCL b
264 TONE 8
265 TONE 8
266 TONE P
267 RTN
268 LBL "W" ;Letter W = .--
269 RCL b
270 TONE P
271 TONE 8
272 TONE 8
273 RTN
274 LBL "Y" ;Letter Y = -...-
275 RCL b
276 TONE 8
277 TONE P

```

278 TONE 8
279 TONE 8
280 RTN
281 LBL "P"      ;Letter P = .--.
282 RCL b
283 TONE P
284 TONE 8
285 TONE 8
286 TONE P
287 RTN
288 LBL " "      ;Space = time delay
289 RCL b
290 FC? 26
291 RTN
292 LASTX
293 LN
294 RTN
295 LBL "M"      ;Letter M = --
296 RCL b
297 TONE 8
298 TONE 8
299 RTN
300 LBL "U"      ;Letter U = ..-
301 RCL b
302 TONE P
303 TONE P
304 TONE 8
305 RTN
306 LBL "F"      ;Letter F = ..-.
307 RCL b
308 TONE P
309 TONE P
310 TONE 8
311 TONE P
312 RTN
313 LBL "C"      ;Letter C = ---.
314 RCL b
315 TONE 8
316 TONE P
317 TONE 8
318 TONE P
319 RTN
320 LBL "L"      ;Letter L = .-..
321 RCL b
322 TONE P
323 TONE 8
324 TONE P
325 TONE P
326 RTN
327 LBL "D"      ;Letter D = -..
328 RCL b
329 TONE 8
330 TONE P
331 TONE P
332 RTN
333 LBL "H"      ;Letter H = ....
334 RCL b
335 TONE P
336 TONE P
337 TONE P
338 TONE P
339 RTN
340 LBL "S"      ;Letter S = ...
341 RCL b
342 TONE P
343 TONE P
344 TONE P
345 RTN
346 LBL "I"      ;Letter I = ..
347 RCL b

```

```

348 TONE P
349 TONE P
350 RTN
351 LBL "R"      ;Letter R = .-.
352 RCL b
353 TONE P
354 TONE 8
355 TONE P
356 RTN
357 LBL "N"      ;Letter N = -.
358 RCL b
359 TONE 8
360 TONE P
361 RTN
362 LBL "O"      ;Letter O = ---
363 RCL b
364 TONE 8
365 TONE 8
366 TONE 8
367 RTN
368 LBL "A"      ;Letter A = .-
369 RCL b
370 TONE P
371 TONE 8
372 RTN
373 LBL "T"      ;Letter T = -
374 RCL b
375 TONE 8
376 RTN
377 LBL "E"      ;Letter E = .
378 RCL b
379 TONE P
380 END

```

```

031FC000F3004D43A81AF42C018081CE75CE7E907CAB1AB200
879A71CE757A9A73F11D9B739A7C02A81AFB43484152414354
4552533F8EAB17B7009871A91A7783CE7878B300A805CE77CE
76CE757103F27F00CE7867B30091787510AB1DB600E0000590
F4917C0491F475051AF27F0006CE7875A819AEF0967485AA19
B400AC1AB8009774AB05B2009177B50007761B13407643307A
74917E21917C08207A840B21917CC000F2003A907C9F089F08
9F089F789F789F7885C000F2002D907C9F089F789F789F789F
789F0885C000F2003F907C9F789F789F089F089F789F7885C0
00F2002E907C9F789F089F789F089F789F0885C000F2002CCF
7C9F089F089F789F789F089F0885C000F20030907C9F089F08
9F089F089F0885C000F20039907C9F089F089F089F089F7885
C000F20038907C9F089F089F089F789F7885C000F20037907C
9F089F089F789F789F7885C000F20036907C9F089F789F789F
789F7885C000F20035907C9F789F789F789F789F7885C000F2
0034907C9F789F789F789F789F0885C000F20033907C9F789F
789F789F089F0885C000F20032907C9F789F789F089F089F08
85C000F20031907C9F789F089F089F089F0885C000F2005A90
7C9F089F089F789F7885C000F20051907C9F089F089F789F08
85CF6F907C9F789F089F089F0885C000F20058907C9F089F78
9F789F0885C000F2004B907C9F089F789F0885C000F2005690
7C9F789F789F789F0885CF67907C9F089F789F789F7885CF6C
907C9F089F089F089F7885C000F20057907C9F789F089F0885C000
F20059907C9F089F789F089F0885C000F20050907C9F789F08
9F089F7885C000F20020907CAD1A85765085C000F2004D907C
9F089F0885C000F20055907C9F789F789F0885CF6B907C9F78
9F789F089F7885CF68907C9F089F789F089F7885C000F2004C
907C9F789F089F789F7885CF69907C9F089F789F7885CF6D90
7C9F789F789F789F7885C000F20053907C9F789F789F7885CF
6E907C9F789F7885C000F20052907C9F789F089F7885C000F2
004E907C9F089F7885C000F2004F907C9F089F089F0885CF66
907C9F789F0885C000F20054907C9F0885CF6A907C9F78C000
0D14

```

799 BYTES

HP-41C Compiled Morse Code by Clifford Stern PPC V8 N3 P11 May 1981

Program Registers Needed: 115

Row 1 (1 - 3)



Row 2 (4 - 10)



Row 3 (11 - 18)



Row 4 (18 - 19)



Row 5 (20 - 27)



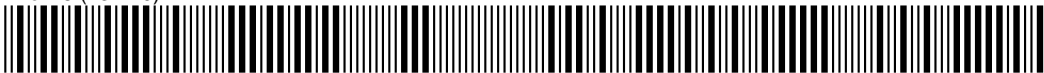
Row 6 (28 - 35)



Row 7 (36 - 43)



Row 8 (43 - 49)



Row 9 (50 - 58)



Row 10 (58 - 65)



Row 11 (65 - 72)



Row 12 (73 - 83)



Row 13 (84 - 90)



Row 14 (91 - 97)



Row 15 (98 - 102)



Row 16 (103 - 108)



HP-41C Compiled Morse Code by Clifford Stern PPC V8 N3 P11 May 1981

Row 17 (108 - 114)



Row 18 (115 - 120)



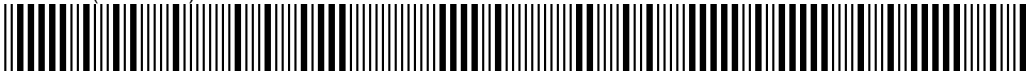
Row 19 (120 - 125)



Row 20 (126 - 132)



Row 21 (132 - 137)



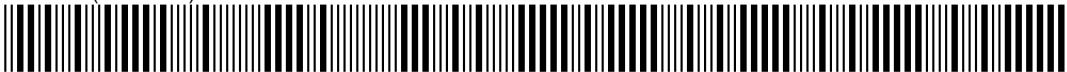
Row 22 (138 - 143)



Row 23 (143 - 150)



Row 24 (150 - 155)



Row 25 (155 - 160)



Row 26 (161 - 166)



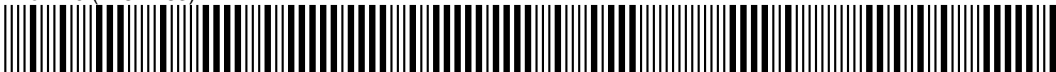
Row 27 (166 - 172)



Row 28 (173 - 178)



Row 29 (178 - 183)



Row 30 (184 - 190)



Row 31 (190 - 195)



Row 32 (196 - 201)



Row 33 (201 - 206)



HP-41C Compiled Morse Code by Clifford Stern PPC V8 N3 P11 May 1981

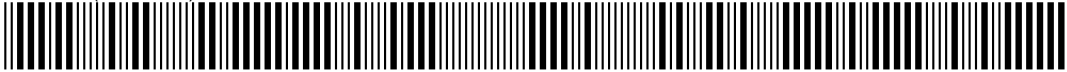
Row 34 (207 - 213)



Row 35 (214 - 218)



Row 36 (219 - 224)



Row 37 (224 - 231)



Row 38 (231 - 236)



Row 39 (237 - 242)



Row 40 (242 - 248)



Row 41 (248 - 254)



Row 42 (255 - 261)



Row 43 (262 - 268)



Row 44 (268 - 274)



Row 45 (274 - 279)



Row 46 (279 - 284)



Row 47 (285 - 290)



Row 48 (290 - 297)



Row 49 (297 - 302)



Row 50 (303 - 309)



HP-41C Compiled Morse Code by Clifford Stern PPC V8 N3 P11 May 1981

Row 51 (310 - 316)



Row 52 (317 - 322)



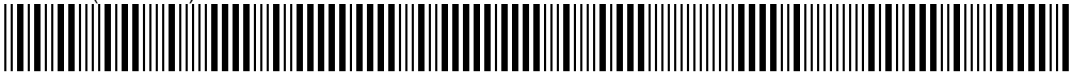
Row 53 (322 - 329)



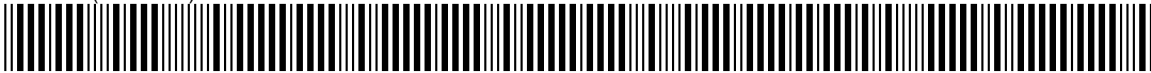
Row 54 (329 - 336)



Row 55 (336 - 341)



Row 56 (342 - 348)



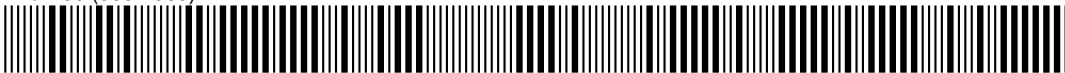
Row 57 (349 - 354)



Row 58 (354 - 359)



Row 59 (360 - 365)



Row 60 (365 - 372)



Row 61 (373 - 378)



Row 62 (378 - 380)

