

HP-41C Chiming Clock Setup by Tony Mechelynck
PPC Calculator Journal V9 N7 P38 Oct-Nov 1982
Code originally attributed to Daniel K. Allen

```
01 LBL "RSALM" ;Reset Alarm
02 CLST
03 .15          ;Set repeat interval to 15 min.
04 X<> Z
05 "^CHIME"     ;^ = noninterrupting control alarm
06 XROM 26,29   ;XYZALM - Put alarm into key assignment memory
07 XROM 26,10   ;CLOCK - Activate past-due alarm, update time
08 END
```

001DC000F6005253414C4D731A1115CE71F65E4348494D45A6
9DA68AC0000D3E

29 BYTES

HP-41C Chiming Clock Routine by Tony Mechelynck
 PPC Calculator Journal V9 N7 Pg 39 Oct-Nov 1982
 Requires HP-41C/CV with Time Module or HP-41CX.
 Requires PPC ROM module for PO and QR functions

```

01 LBL "CHIME" ;Entry point from clock alarm
02 FS? 49      ;Battery low?
03 OFF        ;Don't waste it on the bender
04 LBL 01      ;Entry point after ON pressed
05 CF 21       ;Inhibit printing
06 CLA        ;Set the "message" flag before
07 AVIEW      ;saving the flag status
08 RCL d       ;Save user's display mode
09 FIX 4       ;Ensure HH:MM:SS display
10 XROM 26,28  ;TIME - recall current time
11 XROM 26,04  ;ATIME - format ALPHA 12/24 hr
12 AVIEW      ;Display the "chime" time
13 FRC
14 E2
15 *
16 INT        ;Isolate the minutes
17 15         ;Leave the integer quotient
18 XROM 10,54  ;QR - PPC ROM Quotient Remainder
19 X#0?       ;Round quarter-hour?
20 GTO 10      ;No - terminate
21 RDN        ;Yes
22 X=0?       ;Is it a full hour?
23 GTO 03      ;Yes - chime the hours
24 LBL 02      ;No - count quarters
25 TONE 9      ;one tone
26 PSE        ;Not too fast
27 DSE X      ;Repeat if necessary
28 GTO 02      ;Continue counting quarters
29 R^         ;Put flags back into X
30 GTO 10      ;Terminate
31 LBL 03      ;Come here to chime hours
32 XROM 26,28  ;TIME - Get the time again
33 INT        ;Isolate the hours
34 12         ;Convert to 12 hour clock
35 MOD
36 X=0?       ;If noon or midnight,
37 X<> L      ;sound 12 chimes
38 LBL 04      ;Label for "hours" loop
39 TONE 7      ;Sound a pair of tones
40 TONE 3
41 ADV        ;Do-nothing instructions
42 XROM 20,51  ;PO - PPX ROM Paper Out
43 DSE X      ;Repeat up to 12 times
44 GTO 04
45 LBL 10      ;End of job routine
46 X<> Z      ;Restore user's display mode
47 STO d
48 FS? 03      ;If flag 3 is set
49 XROM 26,10  ;CLOCK - Display the clock
50 FC? 03      ;Else
51 PSE        ;Wait until shift key pressed
52 FS? 47      ;Did the user press Shift?
53 SF 03       ;Yes - set display-on mode
54 FC? 03      ;If flag 3 clear
55 SF 11       ;Set self-starting mode
56 FC? 03      ;And
57 OFF        ;Shutdown
58 GTO 01      ;If ON pressed, go to line 1
59 END        ;103 BYTES

```

0067C000F6004348494D45AC318D02A915877E907E9C04A69C
 A6847E691B1242681115A2B663BB007567B400039F09899773
 B30074BB0004A69C6811124B67CE74059F079F038FA5339773
 B5000BCE71917EAC03A68AAD0389AC2FA803AD03A80BAD038D
 B200C0000D24

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Program Registers Needed: 5

Row 1 (1 - 3)



Row 2 (4 - 7)



Row 3 (8)



HP-41C Chiming Clock Prog. by Tony Mechelynck PPC V9 N7 P39 Oct-Nov 1982

Program Registers Needed: 15

Row 1 (1 - 4)



Row 2 (5 - 12)



Row 3 (13 - 21)



Row 4 (22 - 30)



Row 5 (30 - 39)



Row 6 (39 - 46)



Row 7 (47 - 53)



Row 8 (54 - 59)

