

HP-41C Print Alarms Routine by Steven Baur  
PPC Calculator Journal V10 N3 P30 Apr 1983  
Uses PPC ROM, Time Module, X-Funcs., HP-IL

```
01 LBL "PRALM" ;Print Alarms
02 FC? 09
03 "ALMCAT"
04 ASTO 03 ;Save "ALMCAT" in Reg 03
05 CLX
06 FS? 09
07 XROM 25,43 ;SEEKPTA
08 ADV
09 XROM 29,25 ;FMT
10 "TIMER MODULE"
11 SF 12
12 XROM 29,01 ;ACA
13 CF 12
14 "ALARMS"
15 3
16 XEQ "TTS" ;Timer Title Subroutine (TTS - Line 1)
17 "FILE:"
18 XROM 29,01 ;ACA
19 SF 12
20 CLA
21 ARCL 03
22 XROM 29,01 ;ACA
23 CF 12
24 XROM 29,10 ;PRBUF
25 ADV
26 " # 1 2 3 "
27 ">"4 5 6 7"
28 XROM 29,08 ;PRA
29 " - - - - "
30 ">"- - - -"
31 XROM 29,08 ;PRA
32 CLA
33 ARCL 03
34 FC? 09
35 XEQ "SVALM" ;Save Alarm Catalog (LDALM - Line 34)
36 CLA
37 ARCL 03
38 .
39 SF 25
40 XROM 25,43 ;SEEKPTA
41 FC?C 25
42 GTO 01
43 XROM 25,15 ;FLSIZE
44 E3
45 /
46 E
47 +
48 STO 01
49 XROM 25,32 ;RCLFLAG
50 STO 02
51 FIX 0
52 CF 29
53 LBL 00
54 CLA
55 10
56 RCL 01
57 INT
58 X<Y?
59 " " ;1 Space
60 ARCL X
61 ">": " ;Append 1 colon, 1 space
62 XROM 29,01 ;ACA
63 XROM 25,23 ;GETX
64 XROM 10,40 ;NH - PPC ROM NNN to Hex
65 XROM 29,01 ;ACA
66 XROM 29,10 ;PRBUF
```

```

67 ISG 01
68 GTO 00
69 GTO 02
70 LBL 01
71 "EMPTY"
72 XROM 29,25 ;FMT
73 XROM 29,01 ;ACA
74 ADV
75 LBL 02
76 CLA
77 ARCL 03
78 FC? 09
79 XROM 25,31 ;PURFL
80 AOFF
81 CLA
82 RCL 02
83 XROM 25,45 ;STOFLAG
84 CLST
85 XROM 20,51 ;PO - PPC ROM Paper Out
86 END ;225 BYTES

```

```

00E1C000F6005052414C4DAD09F6414C4D4341549A0377AC09
A66B8FA759FC54494D4552204D4F44554C45A80CA741A90CF6
414C41524D53131EF3545453F546494C453AA741A80C879B03
A741A90CA74A8FFFA20232020312032203320F87F3420352036
2037A748FA202D202D202D202D20F87F2D202D202D202DA7
48879B03AD091EF55356414C4D879B031AA819A66BAB19B200
A64F1B13431B4031A660329C00A91D01871110216844F1209B
73F37F3A20A741A657A2A8A741A74A9601B100B30002F5454D
505459A759A7418F03879B03AD09A65F8B8722A66D73A533C0
000DAE

```

HP-41C Timer Title Subroutine by Steven Baur  
 PPC Calculator Journal V10 N3 Pg 30 Apr 1983  
 Uses Time, Extended Functions, HPIL, Printer

```

01 LBL "TTS" ;Timer Title Subroutine
02 SF 21
03 XROM 25,32 ;RCLFLAG
04 X<>Y
05 FIX 4
06 ADV
07 SF 12
08 XROM 29,25 ;FMT
09 XROM 29,01 ;ACA
10 ADV
11 CF 12
12 ADV
13 CLA
14 XROM 26,28 ;DATE
15 XROM 26,01 ;ADATE
16 XROM 29,08 ;PRA
17 RDN
18 CLA
19 XROM 26,28 ;TIME
20 XROM 26,28 ;ATIME
21 XROM 29,08 ;PRA
22 RDN
23 ADV
24 ADV
25 LBL "*S" ;Size Check
26 XROM 25,44 ;SIZE?
27 X#Y?
28 X>Y?
29 GTO 00
30 X<>Y
31 XROM 25,30 ;PSIZE
32 LBL 00
33 R^
34 R^

```

```

35 XROM 25,45 ;STOFLAG
36 CLST
37 CLA
38 RTN
39 END          ;69 BYTES

```

```

0045C000F400545453A815A660719C048FA80CA759A7418FA9
0C8F87A68CA681A7487587A69CA684A748758F8FC000F3002A
53A66C7945B10071A65E017474A66D738785C0000DED

```

HP-41C Locate Free Block Modified by Steven Baur  
 PPC Calculator Journal Volume 10 N3 P30 Apr 1983  
 Uses PPC ROM (E?, OM), Extended Functions (ATOX)  
 Same as PPC ROM LF; won't destroy alarm catalog.

```

01 LBL "LFT" ;Locate Free Block Modified
02 XROM 10,62 ;E? - PPC ROM End Finder
03 17
04 -
05 E3
06 /
07 177
08 +
09 DSE X
10 RTN
11 "\10"      ;10 hex
12 RCL M
13 XROM 10,58 ;OM - PPC ROM Open Memory
14 SIGN
15 RDN
16 LBL 00
17 RCL IND Y
18 "\F0"      ;F0 hex
19 X<> M
20 ">*"      ;Append 1 asterisk
21 X<> N
22 X=Y?
23 GTO 01
24 SF 09
25 RCL M
26 CLA
27 X<>Y
28 X#0?
29 "\AA"      ;AA hex
30 X<>Y
31 X<> M
32 STO N
33 RDN
34 LBL 01
35 ">*****" ;Append 6 asterisks
36 X<> N
37 STO IND Z
38 RDN
39 FS?C 09
40 GTO 02
41 ISG Y
42 GTO 00
43 LBL 02
44 X<> L
45 STO c
46 X<>Y
47 R^
48 CLA
49 STO M
50 XROM 25,07 ;ATOX
51 RDN
52 XROM 25,07 ;ATOX
53 X<> Z
54 END          ;102 BYTES

```

HP-41C Locate Free Block Modified by Steven Baur  
PPC Calculator Journal Volume 10 N3 P30 Apr 1983  
Uses PPC ROM (E?, OM), Extended Functions (ATOX)  
Same as PPC ROM LF; won't destroy alarm catalog.

0066C000F4004C4654A2BE1117411B134311171740977385F1  
109075A2BA7A750190F2F1F0CE75F27F2ACE7678B200A80990  
75877163F1AA71CE7591767502F77F2A2A2A2A2ACE7691F1  
75AA09B3009672B10003CE74917D7174879175A64775A647CE  
71C0000D13

HP-41C Load/Save/Clear Alarms by Steven Baur  
PPC Calculator Journal V10 N3 Pg 30 Aug 1983  
Requires PPC ROM & Extended Functions Module

```
01 LBL "LDALM" ;Load Alarm Catalog from Extended Memory
02 ASTO 01
03 XEQ "CLRALM" ;Clear Alarm Catalog (Line 74)
04 X<>Y
05 INT
06 CLA
07 ARCL 01
08 XROM 25,15 ;FLSIZE
09 E
10 +
11 XROM 25,44 ;SIZE?
12 +
13 XROM 25,30 ;PSIZE
14 X<> L
15 XROM 25,30 ;PSIZE
16 CLX
17 XROM 25,42 ;SEEKPT
18 RDN
19 XROM 25,15 ;FLSIZE
20 E
21 -
22 X<>Y
23 ST+ Y
24 E3
25 ST/ Z
26 RDN
27 +
28 XROM 10,58 ;OM - PPC ROM Open Memory
29 X<>Y
30 XROM 25,21 ;GETRX
31 X<>Y
32 STO c
33 RTN
34 LBL "SVALM" ;Save Alarm Catalog in Extended Memory
35 ASTO 01
36 XEQ "LFT" ;Locate Free Block Modified (LFT, Line 1)
37 INT
38 X<> Z
39 X=0?
40 RTN
41 CLA
42 ARCL 01
43 XROM 25,11 ;CRFLD
44 E
45 -
46 R^
47 +
48 E3
49 /
50 R^
51 +
52 XROM 10,58 ;OM - PPC ROM Open Memory
53 X<>Y
54 XROM 25,40 ;SAVERX
55 XROM 25,33 ;RCLPT
```

```

56 DSE X
57 "" ;F0=null string (NOP)
58 XROM 25,42 ;SEEKPT
59 "\00\00\00\00\00\00" ;6 nulls
60 X<> M
61 XROM 25,41 ;SAVEX
62 CLX
63 XROM 25,42 ;SEEKPT
64 R^
65 XROM 25,41 ;SAVEX
66 CLX
67 XROM 25,42 ;SEEKPT
68 R^
69 R^
70 XROM 25,21 ;GETRX
71 X<>Y
72 STO c
73 RTN
74 LBL "CLRALM" ;Clear Alarm Catalog from Memory
75 XEQ "LFT" ;Locate Free Block Modified (LFT, Line 1)
76 RCL Z
77 X=0?
78 RTN
79 X<>Y
80 ENTER
81 X<> Z
82 XROM 10,58 ;OM - PPC ROM Open Memory
83 SIGN
84 CLX
85 LBL 00
86 STO IND Z
87 ISG Z
88 DSE Y
89 GTO 00
90 X<> L
91 STO c
92 R^
93 R^
94 CLX
95 END ;184 BYTES

```

```

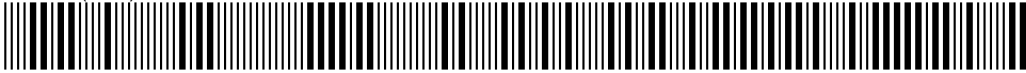
00B8C000F6004C44414C4D9A011EF6434C52414C4D7168879B
01A64F1B40A66C40A65ECE74A65E77A66A75A64F1B41719272
1B1395717540A2BA71A65571917D85C000F6005356414C4D9A
011EF34C465468CE716785879B01A64B1B4174401B13437440
A2BA71A668A6619773F0A66AF6000000000000CE75A66977A6
6A74A66977A66A7474A65571917D85C000F700434C52414C4D
1EF34C4654907167857183CE71A2BA7A770191F196719772B1
00CE74917D747477C0000D8A

```

# HP-41C Print Alarms PRALM by Steven Baur PPC V10 N3 P30 Apr 1983

Program Registers Needed: 33

Row 1 (1 - 3)



Row 2 (3 - 8)



Row 3 (9 - 10)



Row 4 (10 - 14)



Row 5 (14 - 17)



Row 6 (17 - 24)



Row 7 (24 - 26)



Row 8 (27 - 29)



Row 9 (29 - 30)



Row 10 (30 - 35)



Row 11 (35 - 40)



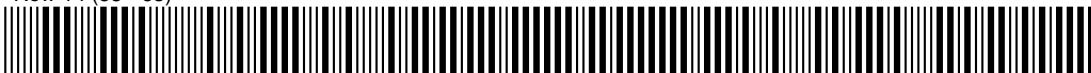
Row 12 (40 - 48)



Row 13 (49 - 57)



Row 14 (58 - 63)



Row 15 (64 - 70)



Row 16 (71 - 76)



## HP-41C Print Alarms PRALM by Steven Baur PPC V10 N3 P30 Apr 1983

Row 17 (77 - 85)



Row 18 (85 - 86)



## HP-41C Timer Title Subroutine TTS by Steven Baur PPC V10 N3 P30 Apr 1983

Program Registers Needed: 10

Row 1 (1 - 5)



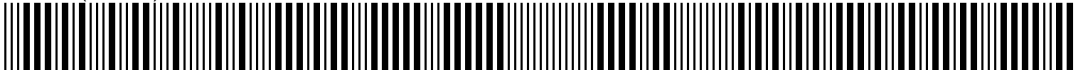
Row 2 (5 - 13)



Row 3 (14 - 21)



Row 4 (21 - 27)



Row 5 (28 - 37)



Row 6 (38 - 39)



# HP-41C Locate Free Block LFT by Steven Baur PPC V10 N3 P30 Apr 1983

Program Registers Needed: 15

Row 1 (1 - 5)



Row 2 (5 - 12)



Row 3 (13 - 20)



Row 4 (20 - 28)



Row 5 (29 - 35)



Row 6 (35 - 40)



Row 7 (41 - 49)



Row 8 (49 - 54)



# HP-41C Load/Save/Clear Alarms by Steven Baur PPC V10 N3 P30 Apr 1983

Program Registers Needed: 27

Row 1 (1 - 3)



Row 2 (3 - 8)



Row 3 (9 - 17)



Row 4 (17 - 25)



Row 5 (26 - 34)



Row 6 (34 - 36)



Row 7 (36 - 45)



Row 8 (46 - 55)



Row 9 (55 - 59)



Row 10 (60 - 67)



Row 11 (68 - 74)



Row 12 (74 - 77)



Row 13 (78 - 87)



Row 14 (87 - 95)



Row 15 ( 95 )

