

HP-41C Cassette Routine NNN by William Wickes
PPC Calculator Journal V9 N4 P38 May-Jul 1982
Uses both Extended Functions/Memory & PPC ROM

```
01 LBL "NNN" ;Non-Normalized Recall Numbers
02 "START?" ;Lowest # of block to be decoded
03 AON
04 STOP
05 XEQ 02
06 "END?" ;Highest # of block to be decoded
07 STOP
08 AOFF
09 XEQ 02
10 E3
11 /
12 +
13 "DFIL" ;Name of 50 register temp data file
14 SF 25
15 0
16 XROM 28,14 ;SEEKR - Position to file record 0
17 FC?C 25
18 XEQ 03
19 "\01\69\0C\00\0C" ;01690C000C hex
20 RDN ;Curtain Moving Routine to 0C0
21 RCL M
22 X<> c
23 X<>Y
24 XROM 28,22 ;WRTRX
25 X<>Y
26 X<> c
27 0
28 "DFIL" ;50 register temp data file on tape
29 XROM 28,14 ;SEEKR - Position to file record 0
30 LBL 05
31 RCL Z
32 STO Y
33 192
34 +
35 ": " ;1 colon, 2 spaces
36 256
37 X<Y?
38 ": 1" ;1 colon, 1 space, number 1
39 MOD
40 RCL X
41 16
42 MOD
43 STO N
44 RDN
45 16
46 /
47 XEQ 06
48 0
49 X<> N
50 X<>Y
51 XROM 25,47 ;XTOA
52 RDN
53 XEQ 06
54 XROM 25,47 ;XTOA
55 ASTO X
56 "\01\69\00\20\0C" ;01690020C0 hex
57 RCL M ;Curtain Moving Routine to 002
58 X<> c
59 2
60 XROM 28,09 ;READRX
61 X<>Y
62 X<> c
63 RDN
64 RDN
65 LASTX
66 XROM 10,40 ;NH - Non-Normalized Number to Hex
```

```

67 AOFF
68 ARCL Y
69 AVIEW
70 ISG Z
71 GTO 05
72 RTN
73 LBL 02
74 0
75 LBL 04
76 XROM 25,07 ;ATOX
77 X=0?
78 GTO 01
79 16
80 ST* Z
81 RDN
82 64
83 -
84 7
85 X<>Y
86 X<0?
87 ST+ Y
88 X>0?
89 STO Y
90 RDN
91 9
92 +
93 +
94 GTO 04
95 LBL 01
96 RDN
97 192
98 -
99 RTN
100 LBL 03
101 50
102 XROM 28,01 ;CREATE
103 RDN
104 XROM 28,14 ;SEEKR
105 RTN
106 LBL 06
107 INT
108 9
109 -
110 -7
111 X<>Y
112 X>0?
113 STO Y
114 X<0?
115 ST+ Y
116 RDN
117 64
118 +
119 RTN
120 END

```

```

00DCC000F4004E4E4EF653544152543F8C84E00002F4454E44
3F848BE000021B134340F44446494CA81910A70EAB19E00003
F501690C000C759075CE7D71A71671CE7D10F44446494CA70E
069071917211191240F33A202012151644F33A20314B907311
164B917675111643E0000610CE7671A66F75E00006A66F9A73
F501690020C09075CE7D12A70971CE7D757576A2A88B9B727E
9671B60085031005A64767B200111694717516144117716692
7264917275194040B50002751119124185041510A70175A70E
85076819411C17716491726692727516144085C0000DAB

```

222 BYTES

HP-41C Cassette Routine NE by William Wickes
PPC Calculator Journal V9 N4 P38 May-Jul 1982
Lines 43-65 were added per: PPC V10 N1 P4 NOP

```
01 LBL "NE" ;Utility Subr for WRTT & READT
02 CF 00
03 RCL c
04 STO M
05 >"\00\00\00\00\02" ;4 nulls, 02 hex
06 RCL M
07 X<> d
08 CF 00
09 CF 01
10 CF 02
11 CF 03
12 FS?C 07
13 SF 05
14 FS?C 08
15 SF 06
16 FS?C 09
17 SF 07
18 FS?C 10
19 SF 09
20 FS?C 11
21 SF 10
22 FS?C 12
23 SF 11
24 X<> d
25 DEC
26 193
27 -
28 X<0?
29 SF 00
30 E3
31 /
32 "\01\69\0C\00\C0" ;01690C00C0 hex
33 ENTER ;Curtain Moving Routine to 0C0
34 ASTO X
35 X<> c
36 X<>Y
37 FS? 00
38 RTN
39 LBL 15
40 RCL IND X
41 "\10" ;10 hex
42 X<> M
43 >"\F0" ;F0 hex
44 RCL N
45 X=0?
46 GTO 13
47 X#Y?
48 RTN
49 CLX
50 RCL M
51 STO N
52 >"123456"
53 X<> N
54 STO IND Z
55 RDN
56 RDN
57 ISG X
58 GTO 15
59 SF 00
60 RTN
61 LBL 13
62 RDN
63 RDN
64 SF 00
65 END
```

HP-41C Cassette Routine NE by William Wickes
PPC Calculator Journal V9 N4 P38 May-Jul 1982
Lines 43-65 were added per: PPC V10 N1 P4 NOP

0088C000F3004E45A900907D9175F67F00000000029075CE7E
A900A901A902A903AA07A805AA08A806AA09A807AA0AA809AA
0BA80AAA0CA80BCE7E5F1119134166A8001B1343F501690C00
C0839A73CE7D71AC0085CF0F90F3F110CE75F27FF0907667BE
0079857790759176F77F313233343536CE7691F175759673D0
000FA800850E7575A800C0000D30

136 BYTES

HP-41C Cassette Routine READT by William Wickes
PPC Calculator Journal V9 N4 Pg 38 May-Jul 1982

```
01 LBL "READT" ;Read Alarms from Cassette Tape
02 "IOB" ;Name of Alarm File is "IOB"
03 0
04 XROM 28,14 ;SEEKR
05 XEQ "NE" ;Utility Routine shared by WRTT
06 FS?C 00
07 GTO 10
08 RDN
09 RDN
10 RCL X
11 0
12 LBL 09
13 STO IND Y
14 ISG Y
15 GTO 09
16 RDN
17 RDN
18 LBL 10 ;Curtain Moving Routine to 0C0
19 "\01\69\00\20\C0" ;01690020C0 hex
20 X<> M
21 X<> c
22 2
23 XROM 28,09 ;READRX
24 RDN
25 X<> c
26 X<> L
27 X<> M
28 INT
29 STO N
30 LASTX
31 FRC
32 E3
33 *
34 X<>Y
35 -
36 RCL M
37 X>Y?
38 GTO 08
39 X<>Y
40 CLX
41 RCL N
42 +
43 E3
44 /
45 RCL N
46 +
47 XROM 28,09 ;READRX
48 X<>Y
49 X<> c
50 RTN
51 LBL 08
52 -
53 X<>Y
54 X<> c
55 FIX 0
56 "SIZE "
57 ARCL Y
58 PROMPT
59 END
```

006EC000F6005245414454F3494F4210A70E1EF24E45AA00BB
0075759073100A91F29672BA0075750BF501690020C0CE75CE
7D12A70975CE7DCE74CE7568917676691B13427141907545B9
0071779076401B1343907640A70971CE7D85094171CE7D9C00
F553495A45209B728EC0000DE6

110 BYTES

HP-41C Cassette Routine WRTT by William Wickes
PPC Calculator Journal V9 N4 Pg 38 May-Jul 1982

```
01 LBL "WRTT" ;Write Alarms to Cassette Tape
02 XEQ "NE" ;Utility Routine Shared by READT
03 FS? 00
04 GTO 14
05 RDN
06 X<> IND Y
07 "\AA" ;AA hex
08 X<> M
09 >"\02" ;Append 02 hex
10 STO N
11 RCL M
12 >"\00\00\00\00\00\00" ;Append 6 nulls
13 X<>Y
14 X<> N
15 STO IND Z
16 RDN
17 X<> d
18 FS?C 07
19 SF 15
20 FS?C 06
21 SF 14
22 FS?C 05
23 SF 13
24 FS?C 04
25 SF 11
26 FS?C 03
27 SF 10
28 FS?C 02
29 SF 09
30 FS?C 01
31 SF 07
32 FS?C 00
33 SF 06
34 X<> d
35 DEC
36 "IOB" ;Name of Cassette File is "IOB"
37 SF 25
38 XROM 28,04 ;PURGE
39 1
40 +
41 XROM 28,01 ;CREATE
42 2
43 -
44 0
45 XROM 28,14 ;SEEKR
46 RDN
47 STO M
48 X<>Y
49 INT
50 STO N
51 +
52 E3
53 /
54 RCL N
55 +
56 RCL M
57 STO L
58 "\01\69\00\20\C0" ;01690020C0 hex
59 X<> M ;Curtain Moving Routine to 0C0
60 X<> c
61 2
62 XROM 28,22 ;WRTRX
63 RDN
64 X<> c
65 RDN
66 XROM 28,22 ;WRTRX
67 LBL 14
```

```
68 X<>Y
69 X<> c
70 FS? 00
71 GTO 99
72 END
```

```
0093C000F500575254541EF24E45AC00BF0075CEF2F1AACE75
F27F0291769075F77F000000000000071CE7691F175CE7EAA07
A80FAA06A80EAA05A80DAA04A80BAA03A80AAA02A809AA01A8
07AA00A806CE7E5FF3494F42A819A7041140A701124110A70E
75917571689176401B134390764090759174F501690020C0CE
75CE7D12A71675CE7D75A7160F71CE7DAC00D00063C0000DFE
```

147 BYTES

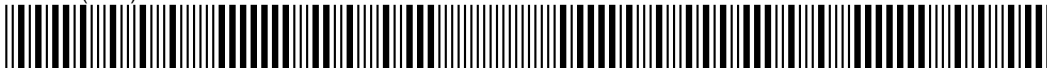
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Program Registers Needed: 32

Row 1 (1 - 2)



Row 2 (2 - 8)



Row 3 (9 - 14)



Row 4 (14 - 19)



Row 5 (19 - 26)



Row 6 (27 - 32)



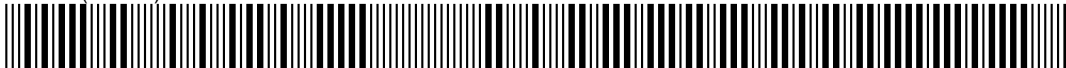
Row 7 (33 - 38)



Row 8 (38 - 45)



Row 9 (45 - 53)



Row 10 (53 - 57)



Row 11 (57 - 66)

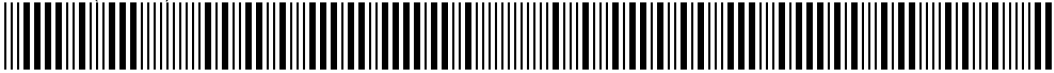


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Row 12 (66 - 75)



Row 13 (76 - 83)



Row 14 (84 - 94)



Row 15 (94 - 102)



Row 16 (103 - 113)



Row 17 (113 - 120)



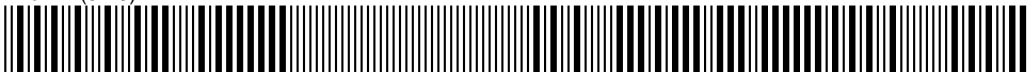
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Program Registers Needed: 20

Row 1 (1 - 5)



Row 2 (5 - 9)



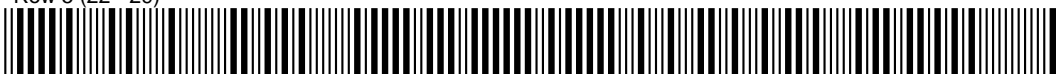
Row 3 (9 - 15)



Row 4 (16 - 22)



Row 5 (22 - 29)



Row 6 (30 - 35)



Row 7 (35 - 42)



Row 8 (43 - 50)



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Row 9 (51 - 54)



Row 10 (54 - 62)



Row 11 (63 - 65)



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Program Registers Needed: 16

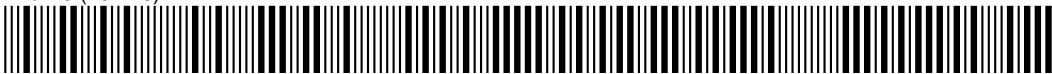
Row 1 (1 - 2)



Row 2 (3 - 9)



Row 3 (10 - 18)



Row 4 (19 - 23)



Row 6 (32 - 41)



Row 7 (42 - 50)



Row 8 (51 - 56)



Row 9 (57 - 59)



HP-41C Cassette Routine WRTT by W. Wickes PPC V9 N4 P38 May-Jul 1982

Program Registers Needed: 21

Row 1 (1 - 3)



Row 2 (3 - 9)



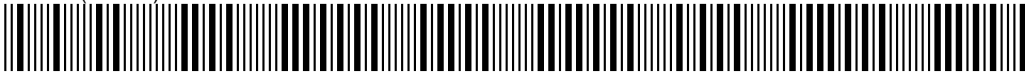
Row 3 (10 - 13)



Row 4 (14 - 20)



Row 5 (21 - 27)



Row 6 (27 - 33)



Row 7 (34 - 40)



Row 8 (41 - 50)



Row 9 (50 - 58)



Row 10 (58 - 63)



Row 11 (64 - 71)



Row 12 (71 - 72)

