

HP-41C Improved Black Box CODE by William Wickes
PPC Calculator Journal Vol 7 N2 P35 Feb-Mar 1980

```
01 LBL "CODE" ;Improved Black Box CODE Program
02 "CODE=?"
03 AON
04 STOP
05 AOFF
06 LBL "CO" ;Improved BB CODE Subroutine (non-prompting)
07 ASTO 01
08 ASHF
09 ASTO 02
10 ASHF
11 >"^^^^" ;Append 4 up-arrows
12 ASTO 03
13 CLA
14 ASTO 00
15 1
16 XEQ 03
17 2
18 XEQ 03
19 3
20 STO 05
21 XEQ 02
22 RCL M
23 AVIEW
24 BEEP
25 RTN
26 LBL 03
27 STO 05
28 .002
29 STO 04
30 LBL 04
31 XEQ 02
32 ASTO 00
33 ISG 04
34 GTO 04
35 RTN
36 LBL 02
37 CLA
38 ARCL IND 05
39 >"****" ;Append 3 asterisks
40 0
41 X<> N
42 ASTO IND 05
43 STO M
44 XEQ 01
45 XEQ "REBLD" ;Improved BB REBLD Program (see below)
46 RCL M
47 CLA
48 ARCL 00
49 ARCL Y
50 X=0?
51 >"\00" ;Append 1 null
52 RTN
53 LBL 01
54 LBL "HD" ;Hex to Decimal Routine
55 >"\00\00\00\00" ;Append 4 nulls
56 RCL M
57 1 E2
58 *
59 STO 06
60 INT
61 XEQ 00
62 16
63 *
64 X<> 06
65 FRC
66 1 E2
67 *
```

```

68 XEQ 00
69 RCL 06
70 +
71 RTN
72 LBL 00
73 40
74 -
75 -1
76 X<>Y
77 X>0?
78 +
79 10
80 +
81 END

```

```

00AAC000F500434F4445F6434F44453D3F8C848BC000F30043
4F9A01889A0288F57F5E5E5E5E9A03879A0011E0000312E000
031335E0000290757E868504351A1010123405E000029A0096
04B5008503879B85F47F2A2A2A10CE769A859175E000011EF5
5245424C449075879B009B7267F27F008502C000F3004844F5
7F000000009075111B12423668E00000111642CE0669111B12
42E00000264085011410411C11716440111040C0000D08

```

170 BYTES

HP-41C Improved Black Box DECODE by William Wickes
 PPC Calculator Journal Vol 7 No 2 P35 Feb-Mar 1980

```

01 LBL 01
02 XEQ "UN" ;Improved BB UNBLD Program (line 6)
03 LBL "DH" ;Decimal to Hex Routine
04 STO M
05 16
06 /
07 INT
08 XEQ 00
09 1 E2
10 /
11 X<> M
12 16
13 MOD
14 XEQ 00
15 1 E4
16 /
17 RCL M
18 +
19 1
20 +
21 CLA
22 STO M
23 >"^" ;Append 1 up-arrow
24 0
25 STO N
26 >"^^" ;Append 2 up arrows
27 RCL N
28 CLA
29 STO M
30 RTN
31 LBL 00
32 9
33 -
34 X>0?
35 ISG X
36 CLD
37 39
38 +
39 RTN

```

```

40 LBL "DECODE" ;Improved Black Box DECODE Program
41 .003
42 STO 04
43 SF 08
44 RDN
45 LBL 02
46 CLA
47 STO M
48 >"^" ;Append 1 up-arrow
49 0
50 X<> N
51 X=0?
52 GTO 05
53 X<> M
54 XEQ 01
55 R^
56 LBL 06
57 FS?C 08
58 GTO 03
59 FS? 09
60 GTO 07
61 ASTO IND 04
62 SF 09
63 GTO 02
64 LBL 05
65 X<> M
66 "00" ;2 zeroes
67 GTO 06
68 LBL 07
69 ASTO Y
70 "/" ;1 forward slash
71 ARCL IND 04
72 >"/" ;Append 1 forward slash
73 ARCL Y
74 LBL 03
75 CF 09
76 ASTO IND 04
77 ISG 04
78 GTO 02
79 CLA
80 ARCL 00
81 ARCL 01
82 ARCL 02
83 ARCL 03
84 AVIEW
85 BEEP
86 END

```

```

00A6021EF2554EC000F3004448917511164368E00000111B12
43CE7511164BE00000111B14439075401140879175F27F5E10
9176F37F5E5E9076879175850119416496737F13194085C000
F7004445434F44451A10101334A8087503879175F27F5E10CE
7667B600CE75E000017407AA08B400AC09B8009A84A809B300
06CE75F23030B700089A72F12F9B84F27F2F9B7204A9099A84
9604B300879B009B019B029B037E86C0000D74

```

166 BYTES

HP-41C Improved Black Box REBLD by William Wickes
PPC Calculator Journal V7 No 2 Pg 36 Feb-Mar 1980

```

01 LBL "REBLD" ;Improved Black Box REBLD Program (Normal)
02 X=0?
03 GTO 09
04 256
05 /
06 .007
07 RCL d

```

```

08 X<> Z
09 LBL 01
10 CF IND Y
11 2
12 *
13 FRC
14 LASTX
15 INT
16 X#0?
17 SF IND Z
18 RDN
19 ISG Y
20 GTO 01
21 RCL Z
22 X<> d
23 LBL 09
24 CLA
25 STO M
26 >"*" ;Append 1 asterisk
27 RCL N
28 CLA
29 STO M
30 ASTO X
31 END

```

```

003DC000F6005245424C4467BA00121516431A101017907ECE
7102A9F2124269766863A8F1759672B2009071CE7E0A879175
F27F2A90768791759A73C0000DEA

```

61 BYTES

HP-41C Improved Black Box UNBLD by William Wickes
PPC Calculator Journal V7 No 2 Pg 36 Feb-Mar 1980

```

01 LBL "UNBLD" ;Improved Black Box UNBLD Program
02 AON
03 "CHR=?"
04 STOP
05 AOFF
06 LBL "UN" ;Improved BB UNBLD Subroutine (non-prompting)
07 >"\00\00\00\00\00" ;Append 5 nulls
08 RCL M
09 X=0?
10 RTN
11 10
12 *
13 RCL M
14 8
15 /
16 80
17 *
18 INT
19 STO Z
20 -
21 10
22 *
23 X<>Y
24 16
25 *
26 +
27 END

```

```

003CC000F600554E424C448CF54348523D3F848BC000F30055
4EF67F00000000009075678511104290751843181042689171
411110427111164240C0000D2E

```

60 BYTES

```
01 LBL 01 ;Load Alpha with Chars 0A-0F
02 10
03 X>Y?
04 RTN
05 XEQ IND Y
06 >"\00\00\00\00\00\00" ;Append 6 nulls
07 RDN
08 X<> M
09 ENTER
10 RTN
11 LBL 10
12 "\0A" ;ASCII 0A
13 RTN
14 LBL 11
15 "\0B" ;ASCII 0B
16 RTN
17 LBL 12
18 "\0C" ;ASCII 0C
19 RTN
20 LBL 13
21 "\0D" ;ASCII 0D
22 RTN
23 LBL 14
24 "\0E" ;ASCII 0E
25 RTN
26 LBL 15
27 "\0F" ;ASCII 0F
28 RTN
29 LBL "REBLD" ;Improved Black Box REBLD Program (Fast)
30 ENTER
31 ENTER
32 16
33 MOD
34 X<>Y
35 LASTX
36 /
37 INT
38 XEQ 01
39 X<> Z
40 XEQ 01
41 0
42 X<> d
43 SF 07
44 SF 08
45 FIX IND T
46 X<> d
47 FRC
48 X<> d
49 FIX IND Z
50 X<> d
51 STO M
52 10
53 STO N
54 ASHF
55 ASTO X
56 "A"
57 ARCL X
58 ASHF
59 ASTO X
60 END
```

006C0211104585AEF2F77F000000000000075CE7583850BF10A
850CF10B850DF10C850EF10D850FF10E85CF0FF10F85C000F6
005245424C44838311164B71764368E00001CE71E0000110CE
7EA807A8089CF0CE7E69CE7E9CF1CE7E917511109176889A73
F1419B73889A73C0000D0D

108 BYTES

HP-41C Improved BB CODE by William Wickes PPC V7 N2 P35 Feb-Mar 1980

Program Registers Needed: 25

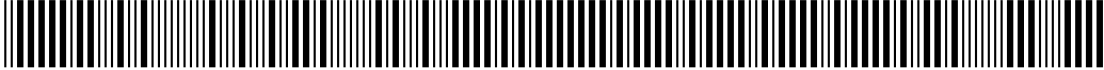
Row 1 (1 - 2)



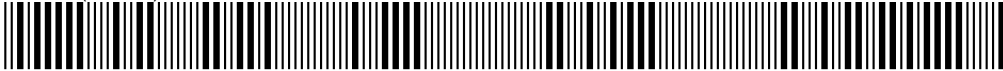
Row 2 (2 - 7)



Row 3 (8 - 13)



Row 4 (14 - 21)



Row 5 (21 - 28)



Row 6 (29 - 36)



Row 7 (37 - 42)



Row 8 (43 - 46)



Row 9 (46 - 54)



Row 10 (54 - 56)



Row 11 (57 - 64)



Row 12 (64 - 72)



Row 13 (73 - 81)



Row 14 (81)



HP-41C Improved BB DECODE by William Wickes PPC V7 N2 P35 Feb-Mar 1980

Program Registers Needed: 24

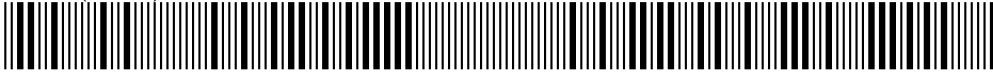
Row 1 (1 - 4)



Row 2 (5 - 11)



Row 3 (12 - 18)



Row 4 (19 - 26)



Row 5 (26 - 35)



Row 6 (35 - 40)



Row 7 (40 - 46)



Row 8 (47 - 53)



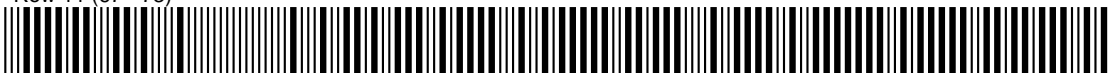
Row 9 (54 - 60)



Row 10 (61 - 67)



Row 11 (67 - 73)



Row 12 (74 - 81)



Row 13 (81 - 86)



HP-41C Improved BB REBLD by William Wickes PPC V7 N2 P36 Feb-Mar 1980

Program Registers Needed: 9

Row 1 (1 - 4)



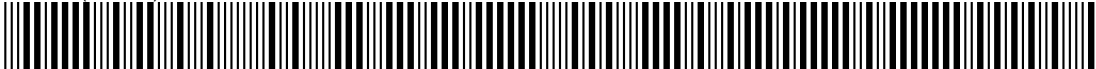
Row 2 (4 - 10)



Row 3 (10 - 20)



Row 4 (20 - 27)



Row 5 (27 - 31)



HP-41C Improved BB UNBLD by William Wickes PPC V7 N2 P36 Feb-Mar 1980

Program Registers Needed: 9

Row 1 (1 - 3)



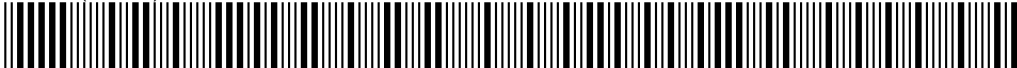
Row 2 (3 - 7)



Row 3 (7 - 13)



Row 4 (13 - 22)



Row 5 (23 - 27)



HP-41C Improved BB Fast REBLD by William Wickes PPC V7 N2 P36 1980

Program Registers Needed: 16

Row 1 (1 - 6)



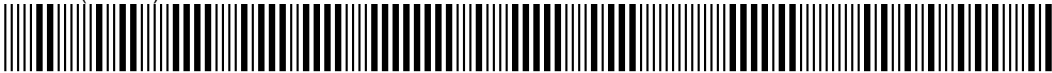
Row 2 (6 - 15)



Row 3 (15 - 24)



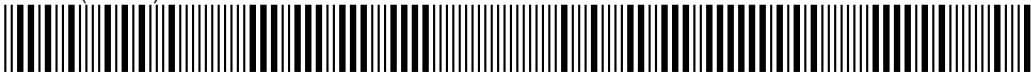
Row 4 (25 - 29)



Row 5 (29 - 38)



Row 6 (38 - 44)



Row 7 (45 - 51)



Row 8 (52 - 59)



Row 9 (59 - 60)

