

HP-41C Append Char Y to X by Carter P. Buck
PPC Calculator Journal V9 N6 Pg 39 Sep 1982

```
01 LBL "YX"      ;Append Rightmost Character
02 X<>Y          ;in Y to X
03 X<> O
04 SIGN
05 X<> P
06 >"\00"        ;Append 1 null
07 STO P
08 CLX
09 X<> d
10 RAD
11 X<> d
12 X<> P
13 X<>Y
14 >"\00\00\00\00\00" ;Append 5 nulls
15 X<> P
16 X<>Y
17 >"\10"        ;Append hex 10
18 X<> O
19 X<> M
20 X<> P
21 X<> O
22 >"\10"        ;Append hex 10
23 X<> M
24 STO P
25 X<> M
26 >"\00\00\00\00\00\00" ;Append 6 nulls
27 X<> P
28 X<> M
29 X<> L
30 X<> O
31 X<> M
32 END
```

004DC600F300595871CE777ACE78F27F00917877CE7E81CE7E
CE7871F67F000000000000CE7871F27F10CE77CE75CE78CE77F2
7F10CE759178CE75F77F00000000000000CE78CE75CE74CE77CE
75C80A0962

77 BYTES

HP-41C No. of Chars. in X by Carter P. Buck
PPC Calculator Journal V9 N6 Pg 39 Sep 1982

```
01 LBL "X="      ;Number of Characters in X
02 6
03 X<>Y
04 X<> O
05 SIGN
06 X<> P
07 >"\00"        ;Append 1 null
08 STO P
09 CLX
10 LBL 08
11 X<> P
12 >"\00"        ;Append 1 null
13 X<> P
14 X#0?
15 GTO 07
16 DSE Y
17 GTO 08
18 X<> d
19 SF 03
20 X<> d
21 GTO 00
22 LBL 07
23 X<> P
24 GTO IND Y
```

```

25 LBL 06
26 >"\00"      ;Append 1 null
27 LBL 05
28 >"\00"      ;Append 1 null
29 LBL 04
30 >"\00"      ;Append 1 null
31 LBL 03
32 >"\00"      ;Append 1 null
33 LBL 02
34 >"\00"      ;Append 1 null
35 LBL 01
36 X<> P
37 X<> O
38 X<> N
39 X<> M
40 X<> P
41 >"\00"      ;Append 1 null
42 STO P
43 RDN
44 E10
45 X<> P
46 >\00\00\00\00\00\00" ;Append 6 nulls
47 X<> P
48 LBL 00
49 X<>Y
50 X<> M
51 X<> L
52 X<> O
53 X<> N
54 X<> M
55 END

```

```

0072C600F300583D1671CE777ACE78F27F0091787709CE78F2
7F00CE7863B8009772B900CE7EA803CE7EB10008CE78AE7207
F27F0006F27F0005F27F0004F27F0003F27F0002CE78CE77CE
76CE75CE78F27F009178751B1110CE78F77F000000000000CE
780171CE75CE74CE77CE76CE75CC0F09FE

```

114 BYTES

HP-41C Character to Decimal by Carter P. Buck
PPC Calculator Journal V9 No 6 Pg 39 Sep 1982

```

01 LBL "cD"    ;Character to Decimal Program
02 1.1
03 E10
04 X<> P
05 X<> M
06 X<> O
07 X<>Y
08 >"\00\00\00\00\00\00" ;Append 6 nulls
09 X<> P
10 SIGN
11 >"\00"      ;Append 1 null
12 X<> P
13 X<> M
14 X<> O
15 .
16 >"\00\00"    ;Append 2 nulls
17 STO O
18 >"\00\03"    ;Append 1 null, hex 03
19 FC? 25
20 STO O
21 RDN
22 RCL M
23 X<> Z
24 >"\00\00\00" ;Append 3 nulls
25 X<> N
26 RDN
27 STO M

```

```

28 CLX
29 X<>Y
30 ARCL L
31 INT
32 ST+ Y
33 RDN
34 6
35 ST* Y
36 RDN
37 E1
38 ST* L
39 X<> L
40 +
41 R^
42 SIGN
43 STO T
44 RDN
45 FC? 10
46 RTN
47 ARCL L
48 X=0?
49 >"\00" ;Append 1 null
50 END

```

```

006AC600F3006344111A11001B1110CE78CE75CE7771F77F00
0000000000CE787AF27F00CE78CE75CE771AF37F00009177F3
7F0003AD199177759075CE71F47F000000CE7675917577719B
7468927275169472751B119474CE7440747A917075AD0A859B
7467F27F00CA0E093F

```

106 BYTES

HP-41C Extended Flag Functions by Carter P. Buck
PPC Calculator Journal Vol 9 No 6 Pg 39 Sep 1982

```

01 LBL "XF" ;Exchange Flags 00 through 07
02 RCL d
03 X<> O
04 SIGN
05 RDN
06 1.1
07 X<> P
08 X<>Y
09 >"\00" ;Append 1 null
10 X<> P
11 X<>Y
12 >"\00\00\00\00\00\00" ;Append 6 nulls
13 X<> P
14 STO d
15 CLX
16 X<> L
17 X<> O
18 X<> N
19 X<> M
20 RDN
21 RTN
22 LBL "dP" ;Printer Existence Flag
23 X#0?
24 ST/ X
25 RCL P
26 SIGN
27 RDN
28 RCL d
29 X<> M
30 X<>Y
31 >"\00\00\00\00\00\00" ;Append 6 nulls
32 STO M
33 X<> L
34 >"\00" ;Append 1 null
35 X<> P

```

```

36 X<> O
37 X<> N
38 STO d
39 CLX
40 RDN
41 X<> M
42 RDN
43 RTN
44 LBL "ds"      ;Store Flags
45 AOFF
46 GTO 14
47 LBL "dE"      ;Exchange Flags
48 AON
49 LBL 14
50 X<> M
51 SIGN
52 X<> P
53 FS? 55
54 >"\01"        ;Append hex 01
55 FC? 55
56 >"\00"        ;Append 1 null
57 X<> M
58 FC? 48
59 STO d
60 AOFF
61 X<> d
62 X<> M
63 >"\00\00\00\00\00\00" ;Append 6 nulls
64 X<> P
65 X<> O
66 X<> N
67 X<> L
68 X<> M
69 CLX
70 X<> L
71 RTN
72 LBL "d0"      ;Reset Flags
73 AOFF
74 SIGN
75 RDN
76 GTO 14
77 LBL "dX"      ;Reset and Preserve Flags
78 AON
79 LBL 14
80 RCL P
81 >"\00\00\00\2C\02\80" ;Append 0000002C0280
82 FS? 55
83 GTO 14
84 FS? 48
85 >"\80"        ;Append hex 80
86 FC? 48
87 >"\00"        ;Append 1 null
88 GTO 13
89 LBL 14
90 FS? 48
91 >"\81"        ;Append hex 81
92 FC? 48
93 >"\01"        ;Append hex 01
94 LBL 13
95 X<> P
96 X<> O
97 X<> N
98 X<> M
99 X<> d
100 FS? 48
101 GTO 14
102 X<> L
103 RTN
104 LBL 14
105 AOFF

```

```

106 RDN
107 LBL "dR"      ;Recall Flags
108 RCL d
109 LBL "Xa"      ;X to Alpha Data
110 LBL 12
111 AOFF
112 X<> O
113 SIGN
114 RDN
115 1.1
116 E10
117 X<> P
118 GTO 14
119 LBL "aX"      ;Alpha Data to X
120 LBL 11
121 AON
122 X<> L
123 X<> O
124 X<> L
125 RCL P
126 LBL 14
127 X<>Y
128 >"\00\00\00\00\00\00" ;Append 6 nulls
129 FS? 48
130 STO P
131 X<> P
132 X<>Y
133 >"\00"      ;Append 1 null
134 X<> P
135 FS? 48
136 X<>Y
137 AOFF
138 X<> L
139 X<> O
140 X<> N
141 X<> M
142 RDN
143 RTN
144 LBL "KD"      ;Disable Key Assignments
145 .
146 X<> e
147 XEQ 12
148 .
149 X<> R
150 XEQ 12
151 .
152 ABS
153 RDN
154 RTN
155 LBL "KE"      ;Enable Key Assignments
156 XEQ 11
157 STO R
158 CLX
159 ABS
160 RDN
161 XEQ 11
162 STO e
163 CLX
164 ABS
165 RDN
166 END

```

HP-41C Extended Flag Functions by Carter P. Buck
PPC Calculator Journal Vol 9 No 6 Pg 39 Sep 1982

016EC600F3005846907ECE777A75111A11CE7871F27F00CE78
71F77F00000000000000CE78917E77CE74CE77CE76CE757585CA
06F300645063957390787A75907ECE7571F77F000000000000
9175CE74F27F00CE78CE77CE76917E7775CE757585CA06F300
64538BBF00C401F30064458C0FCE757ACE78AC37F27F01AD37
F27F00CE75AD30917E8BCE7ECE75F77F00000000000000CE78CE
77CE76CE74CE7577CE7485C008F30064308B7A75BF00C801F3
0064588C0F9078F77F00000002C0280AC37BF00AC30F27F80AD
30F27F00BE000FAC30F27F81AD30F27F010ECE78CE77CE7CE7
5CE7EAC30BF00CE74850F8B75C609F3006452907EC201F3005
8610D8BCE777A75111A11001B1110CE78BF00C403F30061580
C8CCE74CE77CE7490780F71F77F00000000000000AC309178CE7
871F27F00CE78AC30718BCE74CE77CE76CE757585C607F3004
B441ACE7FE0000C1ACE7AE0000C1A617585C203F3004B45E00
00B917A776175E0000B917F776175C2030990

366 BYTES

HP-41C Semi-Synthetic ASTO X by Carter P. Buck
PPC Calculator Journal Vol 9 No 6 P39 Sep 1982

```
01 LBL "aS"      ;Semi-Synthetic ASTO X
02 RCL O
03 SIGN
04 ASTO O
05 X<> P
06 >"\00"        ;Append 1 null
07 STO P
08 RDN
09 E10
10 X<> P
11 >"\00\00\00\00\00\00" ;Append 6 nulls
12 X<> P
13 X<> M
14 X<> L
15 X<> O
16 X<> N
17 X<> M
18 END
```

002FC600F300615390777A9A77CE78F27F009178751B1110CE
78F77F00000000000000CE78CE75CE74CE77CE76CE75C40609C5

47 BYTES

HP-41C Clear Subr. Rtn. Stack by Carter P. Buck
PPC Calculator Journal Volume 9 N6 P39 Sep 1982

```
01 LBL "b0"      ;Clear Subroutine Return Stack
02 SF 25
03 RCL b
04 FC?C 25
05 GTO 14
06 X<> O
07 STO a
08 X<> P
09 SIGN
10 CLX
11 >"\00\00\00" ;Append 3 nulls
12 STO P
13 X<> L
14 >"\00\00\00\00" ;Append 4 nulls
15 X<> P
16 X<> M
17 X<> a
18 X<> O
19 X<> N
```

20 X<> M
21 STO b
22 LBL 14
23 CLX
24 RDN
25 END

0039C600F3006230A819907CAB19BF00CE77917BCE787A77F4
7F0000009178CE74F57F00000000CE78CE75CE7BCE77CE76CE
75917C0F7775CA07090E

57 BYTES

HP-41C Mantissa and Exponent by Carter P. Buck
PPC Calculator Journal Vol 9 No 6 P39 Sep 1982

01 LBL "IM" ;Isolate Mantissa
02 CF 24
03 GTO 14
04 LBL "IE" ;Isolate Exponent
05 SF 24
06 LBL 14
07 SF 25
08 AOFF
09 STO L
10 X=0?
11 CLX
12 X<0?
13 CHS
14 E
15 X>Y?
16 AON
17 RDN
18 X=0?
19 AOFF
20 RDN
21 LASTX
22 FC?C 24
23 GTO 14
24 X<> O
25 RCL P
26 >"\00\00\00\00\00\00" ;Append 6 nulls
27 STO P
28 RDN
29 FS? 25
30 GTO 13
31 1.1
32 GTO 12
33 LBL 13
34 FC? 48
35 1.01
36 FS? 48
37 1.01 E9
38 AOFF
39 LBL 12
40 X<> P
41 >"\00" ;Append 1 null
42 X<> P
43 X<> M
44 RDN
45 X<> O
46 X<> N
47 X<> M
48 RTN
49 LBL 14
50 RCL P
51 X<>Y
52 FC? 25
53 GTO 14
54 X<> M

```

55 >"\00\00\00\00\00\00" ;Append 6 nulls
56 X<> M
57 X<> P
58 X<> O
59 X<> N
60 X<> M
61 FC? 48
62 >"\00" ;Append 1 null
63 FS? 48
64 >"\9A" ;Append hex 9A
65 X<> M
66 X<>Y
67 STO P
68 CLX
69 FS? 48
70 ST+ Y
71 AOFF
72 RDN
73 RTN
74 LBL 14
75 X<> O
76 SIGN
77 X<> d
78 RAD
79 X<> d
80 >"\00" ;Append 1 null
81 STO P
82 RDN
83 1.1
84 >"\00\00\00\00\00" ;Append 5 nulls
85 X<> P
86 X<>Y
87 >"\00" ;Append 1 null
88 X<> P
89 X<> L
90 X<> O
91 X<> N
92 X<> M
93 RDN
94 END

```

```

00C2C600F300494DA918BF00C601F3004945A8180FA8198B91
74677766541B458C75678B7576AB18BF00CE779078F77F0000
00000000917875AC19BE00111A11BD000EAD30111A1011AC30
111A10111B198B0DCE78F27F00CE78CE7575CE77CE76CE7585
0F907871AD19BF00CE75F77F000000000000CE75CE78CE77CE
76CE75AD30F27F00AC30F27F9ACE7571917877AC3092728B75
850FCE777ACE7E81CE7EF27F00917875111A11F67F00000000
00CE7871F27F00CE78CE74CE77CE76CE7575CC19098E

```

194 BYTES

HP-41C Append Y to X by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 11

Row 1 (1 - 6)



HP-41C Append Y to X by Carter P. Buck PPC V9 N6 P39 Sep 1982

Row 2 (6 - 13)



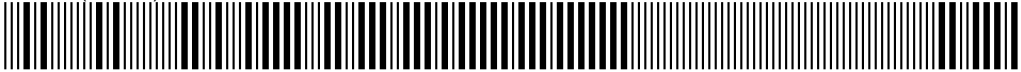
Row 3 (14 - 17)



Row 4 (18 - 23)



Row 5 (24 - 27)



Row 6 (27 - 32)



HP-41C Number of Chars in X by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 17

Row 1 (1 - 6)



Row 2 (7 - 13)



Row 3 (13 - 20)



Row 4 (20 - 27)



Row 5 (28 - 34)



Row 6 (34 - 40)



Row 7 (41 - 46)



Row 8 (46 - 51)



Row 9 (51 - 55)



HP-41C Character to Decimal by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 16

Row 1 (1 - 3)



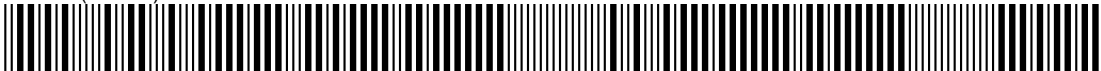
Row 2 (4 - 8)



Row 3 (8 - 14)



Row 4 (14 - 19)



Row 5 (19 - 24)



Row 6 (25 - 33)



Row 7 (34 - 42)



Row 8 (43 - 50)



Row 9 (50)



HP-41C Extended Flag Functions by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 53

Row 1 (1 - 6)



Row 2 (6 - 12)



Row 3 (12 - 16)

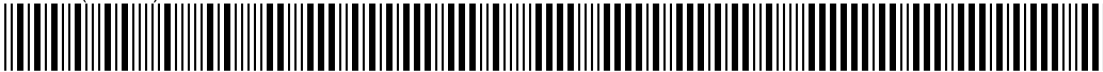


Row 4 (17 - 22)

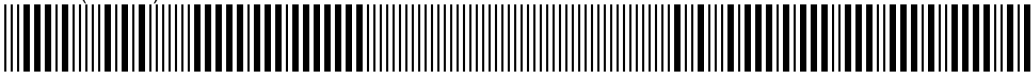


HP-41C Extended Flag Functions by Carter P. Buck PPC V9 N6 P39 Sep 1982

Row 5 (22 - 30)



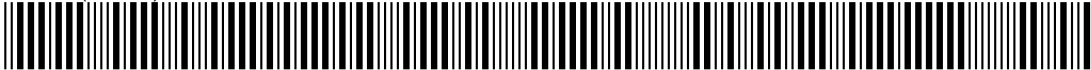
Row 6 (31 - 34)



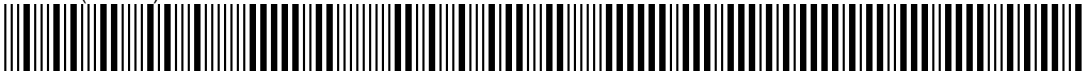
Row 7 (34 - 41)



Row 8 (41 - 47)



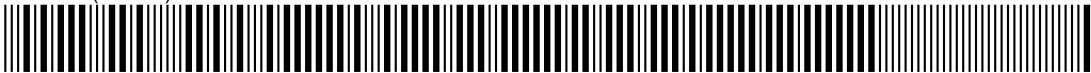
Row 9 (47 - 53)



Row 10 (53 - 58)



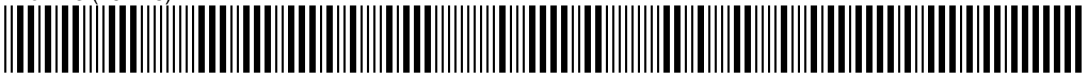
Row 11 (59 - 63)



Row 12 (63 - 69)



Row 13 (70 - 76)



Row 14 (76 - 81)



Row 15 (81 - 85)



Row 16 (85 - 91)



Row 17 (91 - 97)



Row 18 (97 - 104)



Row 19 (105 - 109)



Row 20 (109 - 115)



Row 21 (116 - 119)

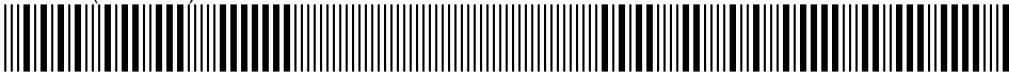


HP-41C Extended Flag Functions by Carter P. Buck PPC V9 N6 P39 Sep 1982

Row 22 (120 - 128)



Row 23 (128 - 131)



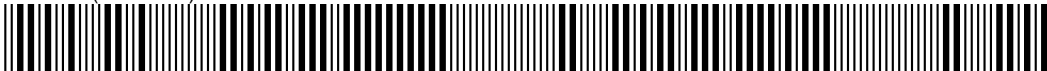
Row 24 (132 - 139)



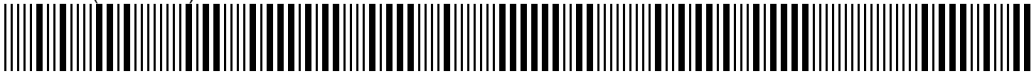
Row 25 (139 - 144)



Row 26 (145 - 151)



Row 27 (152 - 157)



Row 28 (157 - 166)



Row 29 (166)



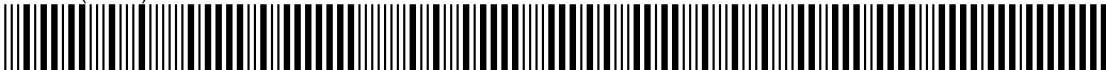
HP-41C Semi-Synthetic ASTO X by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 7

Row 1 (1 - 5)



Row 2 (6 - 11)



Row 3 (11 - 15)



Row 4 (15 - 18)



HP-41C Clear Subr. Rtn. Stack by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 9

Row 1 (1 - 5)



Row 2 (5 - 11)



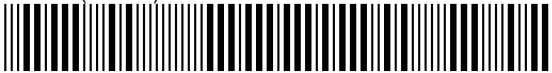
Row 3 (11 - 15)



Row 4 (16 - 22)



Row 5 (23 - 25)



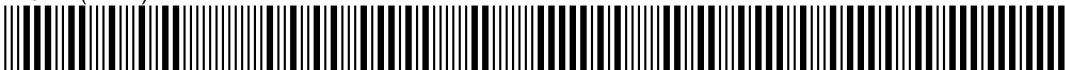
HP-41C Mantissa and Exponent by Carter P. Buck PPC V9 N6 P39 Sep 1982

Program Registers Needed: 28

Row 1 (1 - 4)



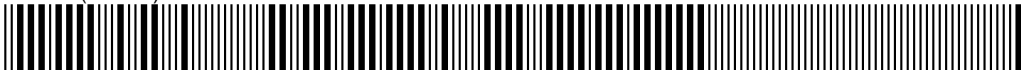
Row 2 (4 - 11)



Row 3 (12 - 23)



Row 4 (23 - 26)



Row 5 (27 - 33)



Row 6 (34 - 37)



Row 7 (37 - 44)



Row 8 (45 - 52)



HP-41C Mantissa and Exponent by Carter P. Buck PPC V9 N6 P39 Sep 1982

Row 9 (53 - 56)



Row 10 (56 - 62)



Row 11 (62 - 69)



Row 12 (69 - 78)



Row 13 (79 - 84)



Row 14 (84 - 88)



Row 15 (89 - 94)

