

HP-41C Improved ASG Program by Gerard A-A Westen
PPC Calculator Journal Vol 9 N7 P27 Oct-Nov 1982
Program uses HP-41CX or Ext. Func./Memory Module

01 LBL "ASG" ;Improved ASG Program

02 31

03 RCL d

04 SIGN

05 "\84\80" ;Hex 8480

06 ASTO d

07 "ASN "

08 STOP

09 >" " ;Append 1 space

10 LBL 01

11 X<>Y

12 AVIEW

13 XROM 25,17 ;GETKEY

14 X=0?

15 GTO 01

16 X#Y?

17 ARCL X

18 X#Y?

19 AVIEW

20 FS? 03

21 >"-" ;Append dash

22 X#Y?

23 GTO 03

24 FS?C 03

25 GTO 01

26 -1

27 XROM 25,06 ;AROT

28 XROM 25,07 ;ATOX

29 RDN

30 SF 03

31 GTO 01

32 LBL 03

33 FC? 03

34 CHS

35 X<> L

36 STO d

37 -4

38 XROM 25,06 ;AROT

39 ASHF

40 XROM 25,07 ;ATOX

41 XROM 25,07 ;ATOX

42 LASTX

43 SF 25

44 XROM 25,26 ;PASN

45 CLD

46 FS?C 25

47 GTO 15

48 >"\01" ;Append hex 01

49 32

50 XROM 25,28 ;POSA

51 X<0?

52 SF 99

53 XROM 25,06 ;AROT

54 XROM 25,07 ;ATOX

55 XROM 25,28 ;POSA

56 CF 10

57 X<0?

58 GTO 05

59 CHS

60 SF 10

61 LBL 04

62 XROM 25,07 ;ATOX

63 RDN

64 ISG X

65 GTO 04

66 LBL 05

```
67 RCL Z
68 CF 22
69 XROM 25,02 ;ANUM
70 FS?C 22
71 GTO 08
72 XROM 25,07 ;ATOX
73 84
74 -
75 X<0?
76 GTO 06
77 X=0?
78 GTO 07
79 7
80 -
81 X<0?
82 GTO 07
83 LASTX
84 -
85 LBL 06
86 9
87 +
88 X>0?
89 3
90 X>0?
91 +
92 CHS
93 LBL 07
94 CHS
95 112
96 +
97 LBL 08
98 1
99 XROM 25,28 ;POSA
100 CHS
101 LBL 09
102 XROM 25,07 ;ATOX
103 RDN
104 ISG X
105 GTO 09
106 RDN
107 X<>Y
108 SF 25
109 XROM 25,26 ;PASN
110 FS?C 25
111 GTO 10
112 XROM 25,02 ;ANUM
113 ENTER
114 FC? 22
115 SF 09
116 R^
117 GTO 13
118 LBL 10
119 RCL Q
120 X<> P
121 XROM 25,07 ;ATOX
122 R^
123 FC? 10
124 GTO 13
125 XROM 25,46 ;X<>F
126 R^
127 208
128 R^
129 X<>Y
130 X=Y?
131 GTO 11
132 RDN
133 224
134 X<>Y
135 SF 07
136 X#Y?
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137 GTO 12
138 LBL 11
139 RDN
140 174
141 LBL 12
142 R^
143 XROM 25,46 ;X<>F
144 LBL 13
145 R^
146 "%" ;Percent sign
147 XROM 25,26 ;PASN
148 RCL R
149 R^
150 CLA
151 XROM 25,47 ;XTOA
152 R^
153 XROM 25,47 ;XTOA
154 RCL Z
155 X<> M
156 >"\00\00\00\00\04\4C" ;Append 4 nulls, hex 044C
157 STO O
158 RCL M
159 STO N
160 >"*" ;Append 1 asterisk
161 RCL c
162 RCL O
163 SIGN
164 RCL N
165 "\40\01\69\0B\F1\50" ;hex 4001690BF150
166 ASTO c
167 R^
168 LBL 14
169 RDN
170 RCL IND Y
171 "***" ;Two asterisks
172 X<> N
173 X<> M
174 STO O
175 ASTO M
176 ASHF
177 X<> N
178 ASHF
179 X#Y?
180 X<> M
181 X=Y?
182 X<> L
183 >"\00\00\00\00" ;Append 4 nulls
184 X<> N
185 >"\00\00\00\F0" ;Append 3 nulls, hex F0
186 X<> M
187 X<> O
188 ARCL c
189 X<> O
190 STO IND Z
191 RDN
192 LASTX
193 X#Y?
194 ISG Z
195 X=0?
196 GTO 14
197 R^
198 LBL 15
199 X<> c
200 CLST
201 CLA
202 END

```

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0168C000F4004153471311907E7AF284809A7EF441534E2084
F27F2002717EA65167B200799B73797EAC03F27F2D79B400AA
03B2001C11A646A64775A803B20004AD0354CE74917E1C14A6
4688A647A64776A819A65A7FAA19D0000FF27F011312A65C66
A863A646A647A65CA90A66B60054A80A05A647759673B50006
9071A916A642AA16B900A64718144166B70067B800174166B8
00764107194064136440540854111112400911A65C540AA647
759673BA007571A819A65AAA19BB00A64283AD16A80974BE00
0B9079CE78A64774AD0ABE00A66E74121018747178BC007512
121471A80779BD000C751117140D74A66E0E74F125A65A907A
7487A66F74A66F9071CE75F77F00000000044C917790759176
F27F2A907D90777A9076F64001690BF1509A7D740F7590F2F2
2A2ACE76CE7591779A7588CE768879CE7578CE74F57F000000
00CE76F57F000000F0CE75CE779B7DCE7791F1757679967167
BF0074CF0FCE7D7387C0000DE4

360 BYTES

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Program Registers Needed: 52

Row 1 (1 - 5)



Row 2 (5 - 9)



Row 3 (10 - 19)



Row 4 (20 - 26)



Row 5 (26 - 33)



Row 6 (34 - 41)



Row 7 (41 - 48)



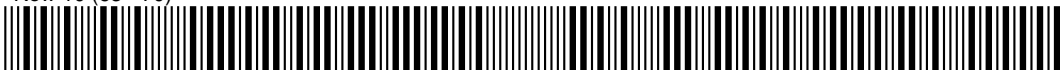
Row 8 (48 - 54)



Row 9 (55 - 62)



Row 10 (63 - 70)



Row 11 (70 - 78)



Row 12 (78 - 89)



Row 13 (90 - 99)



Row 14 (100 - 108)



Row 15 (109 - 115)



Row 16 (116 - 123)



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Row 17 (124 - 131)



Row 18 (132 - 140)



Row 19 (140 - 148)



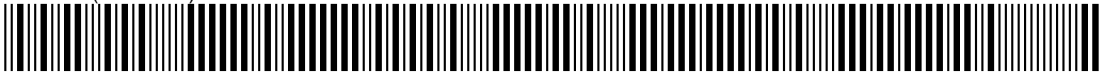
Row 20 (148 - 156)



Row 21 (156 - 159)



Row 22 (160 - 165)



Row 23 (165 - 171)



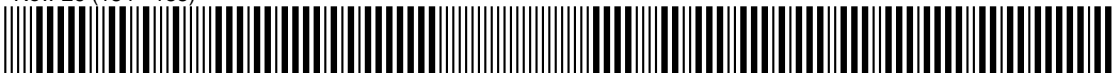
Row 24 (171 - 178)



Row 25 (179 - 184)



Row 26 (184 - 188)



Row 27 (189 - 197)



Row 28 (198 - 202)

