

ON KEY 0 to 20 GO TO XX

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REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: ADDRESSE

DATE: 24/09/81

TIME: 10:50

PAGE: 1

1				
2				
3	ADRESSE	000000 #ADDRESSET	22/09/81	1
4				
5	DIRECTIVE	000010 +SET 1 = 1160	07/04/81	2
6	DIRECTIVE	000020 +SET 0 = 51	30/03/81	3
7		000030 ** THIS MACRO IS PLACED AT THE TOP SO THAT IT IS EASY TO FIND	30/03/81	4
8		000040 ** TO SET THE ADDRESSES FOR THE GRAPHICS ROUTINES?	18/08/81	5
9		000050 ** ?1 IS THE BASE ADDRESS OF THE GRAPHICS WORK AREA	30/03/81	6
10		000060 ** ?0 HOLDS THE RELATIVE ADDRESS OF THE GRAPHICS ROUTINES	30/03/81	7
11		000070 ** JUMP TABLE TO ?1	30/03/81	8
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REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: BEEP DATE: 24/09/81 TIME: 10:50 PAGE: 2

1	BEEP	000000 #BEEP	27/03/81	9
2			12/03/81	10
3	DIRECTIVE	000020 +EXIT	15/06/81	11
4	DIRECTIVE	000030 +IFF??A?EQUAL??	18/08/81	12
5		000040 PRINT CHR\$(14) + CHR\$(7)	23/03/81	13
6	DIRECTIVE	000050 +ELSE	12/03/81	14
7		000060 ZX=?A:GOSUB #BEEP	03/04/81	15
8		000070 (	03/04/81	16
9		000080 P BEEP	03/04/81	17
10		000090 )	03/04/81	18
11	DIRECTIVE	000100 +FI	03/04/81	19
12	DIRECTIVE	000110 +CEXIT	03/04/81	20
13		000120 (	03/04/81	21
14		000130 P SUB	03/04/81	22
15		000140 R BEEP	03/04/81	23
16	DIRECTIVE	000150 &IF/NO/BEEP/GO TO/BEEPEND	03/04/81	24
17		000160 BEEP	03/04/81	25
18		000170 Z\$ = CHR\$(14) + CHR\$(7)	17/03/81	26
19		000180 FOR Z1% =ZM%TO ?A	05/05/81	27
20		000190 PRINT Z\$%	23/03/81	28
21		000200 NEXT Z1%	17/03/81	29
22		000210 RETURN	03/04/81	30
23	LABEL	000220 &BEEPEND	03/04/81	31
24		000230 )	03/04/81	32
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41	<u>B77A</u>			
42				
43	FOR N% = 1 TO ?A			
44				
45	SOUND 23,4			
46				
47	NEXT N%			
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FOR N% = 1 TO ?A

SOUND 23,4

NEXT N%

REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: BREAK DATE: 24/09/81 TIME: 10:50 PAGE: 3

1						
2	BREAK	000000 #BREAK		12/03/81	33	
3						
4						
5	DIRECTIVE	000010 ?A		12/03/81	34	
6	DIRECTIVE	000020 +DFT A = OFF		12/03/81	35	
7	DIRECTIVE	000030 +COMPUTE 2 = ?1 + 24		26/03/81	36 X	
8	DIRECTIVE	000040 +IFF ??A?EQUAL?ON?		18/08/81	37	
9	DIRECTIVE	000050 POKE ?2,ZM%		11/05/81	38	ON KEY 10 POKE 1?2,ZM%
10	DIRECTIVE	000060 +ELSE		08/06/81	39	
11	DIRECTIVE	000070 POKE ?2,ZL%		08/06/81	40	ON KEY 10 GOTO #BREAKOFF
12	DIRECTIVE	000080 +IF ??A?NOT?EQUAL?OFF?WARNING?BREAK NOT ON OR OFF - SET TO OFF		18/08/81	41	
13	DIRECTIVE	000090 +FI		12/03/81	42	
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BREAKOFF  
RESUME NEXT

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO# CALCULAT

DATE: 24/09/81

TIME: 10:50

PAGE: 4

CALCULAT 000000 #CALCULATOR

26/03/81 43

ON 1 → Break works.

OFF 0

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: CLEAR23

DATE: 24/09/81

TIME: 10:50

PAGE: 5

1  
2  
3 CLEAR23 000000 #CLEAR23

4  
5 000010 ? A  
6 000020 Z1% = USR (10 ,5888)  
7 DIRECTIVE 000030 +IFF/?A/EQUAL//  
8 000040 :GOSUB #SNUMBER  
9 DIRECTIVE 000050 +FI

12/03/81 44

04/06/81 45  
04/06/81 46 PRINT@ (23,22^6) SPC(40);  
04/06/81 47  
04/06/81 48  
04/06/81 49

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REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: CLINE

DATE: 24/09/81

TIME: 10:50

PAGE: 6

CLINE		18/05/81	50	
000000	#CLINE			
000010	? A	18/05/81	51	
000020	+IFF??A?NUMERIC?	18/08/81	52	PRINT@(%A,%L%)\$PC(40);
000030	+ COMPUTE A = ?A * 256	18/05/81	53	
000040	Z%=USR(10,?A)	18/05/81	54	
000050	+ IFF??A?EQUAL?23?	18/08/81	55	
000060	GOSUB #SNUMBER	03/06/81	56	
000070	+ FI	03/06/81	57	
000080	+ELSE	18/05/81	58	
000090	Z%=USR(10,?A*256)	18/05/81	59	X
000100	IF?A=23THEN GOSUB #SNUMBERX	03/06/81	60	
000110	+FI	18/05/81	61	

REPORT SX3CMD/2:1

ATU

MACRO FILE: PP0MSY

MACRO: CLS

DATE: 24/09/81

TIME: 10:50

PAGE: 7

1  
2  
3 CLS 000000 # CLS

12/03/81 62

4  
5 000010 CLS

18/05/81 63

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LINE	COLOUR	000000 # COLOUR	12/03/81	64
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3	000000	# COLOUR	12/03/81	64
4				
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6	DIRECTIVE	000010 ?A B	12/03/81	65
7	DIRECTIVE	000020 + DFT B = G	12/03/81	66
8	DIRECTIVE	000030 + IFF ?B?NOT?EQUAL?G?IF ?B?NOT?EQUAL?T?IF ?B?NOT?EQUAL?B?	18/08/81	67
9	DIRECTIVE	000040 + WARNING?INVALID SCREEN TYPE ?B - SET TO G	18/08/81	68
10	DIRECTIVE	000050 + SET B = G	26/03/81	69
11	DIRECTIVE	000060 +FI	26/03/81	70
12	DIRECTIVE	000070 + IF ??A?EQUAL?BLK?SET A = BLACK	18/08/81	71
13	DIRECTIVE	000080 + LENGTH Z = ?A	26/03/81	72
14	DIRECTIVE	000090 + IFF ??Z?EQUAL?1?	18/08/81	73
15	DIRECTIVE	000100 + IF ??A?EQUAL?W?SET A = WHITE	18/08/81	74
16	DIRECTIVE	000110 + IF ??A?EQUAL?R?SET A = RED	18/08/81	75
17	DIRECTIVE	000120 + IF ??A?EQUAL?G?SET A = GREEN	18/08/81	76
18	DIRECTIVE	000130 + IF ??A?EQUAL?B?SET A = BLUE	18/08/81	77
19	DIRECTIVE	000140 + IF ??A?EQUAL?Y?SET A = YELLOW	18/08/81	78
20	DIRECTIVE	000150 + IF ??A?EQUAL?C?SET A = CYAN	18/08/81	79
21	DIRECTIVE	000160 + IF ??A?EQUAL?M?SET A = MAGENTA	18/08/81	80
22	DIRECTIVE	000170 +FI	26/03/81	81
23	DIRECTIVE	000180 +UNSET Z	26/03/81	82
24	DIRECTIVE	000190 + IFF ??B?EQUAL?B?	18/08/81	83
25	DIRECTIVE	000200 + IF ??A?EQUAL?RED? SET Z = 16	18/08/81	84
26	DIRECTIVE	000210 + IF ??A?EQUAL?GREEN? SET Z = 32	18/08/81	85
27	DIRECTIVE	000220 + IF ??A?EQUAL?YELLOW? SET Z = 48	18/08/81	86
28	DIRECTIVE	000230 + IF ??A?EQUAL?BLUE? SET Z = 64	18/08/81	87
29	DIRECTIVE	000240 + IF ??A?EQUAL?MAGENTA?SET Z = 80	18/08/81	88
30	DIRECTIVE	000250 + IF ??A?EQUAL?CYAN? SET Z = 96	18/08/81	89
31	DIRECTIVE	000260 + IF ??A?EQUAL?WHITE? SET Z = 112	18/08/81	90
32	DIRECTIVE	000270 + IF ??A?EQUAL?BLACK? SET Z = ZL%	18/08/81	91
33	DIRECTIVE	000280 + IF ??Z?EQUAL??WARNING?INVALID COLOUR ?A SET TO BLACK?	18/08/81	92
34	DIRECTIVE	000290 + DFT Z = 0	26/03/81	93
35	DIRECTIVE	000300 Z1% = USR (Z1% ,USR (ZJ%) AND NOT 112 OR ?Z) BACKGROUND Z	05/05/81	94
36	DIRECTIVE	000310 +ELSE	26/03/81	95
37	DIRECTIVE	000320 + IFF ??B?EQUAL?T?	18/08/81	96
38	DIRECTIVE	000330 + IF ??A?EQUAL?BLUE? SET Z = ZL%	18/08/81	97
39	DIRECTIVE	000340 + IF ??A?EQUAL?GREEN?SET Z = 512	18/08/81	98
40	DIRECTIVE	000350 + IF ??A?EQUAL?RED? SET Z = 1024	18/08/81	99
41	DIRECTIVE	000360 + IF ??A?EQUAL?WHITE?SET Z = 1536	18/08/81	100
42	DIRECTIVE	000370 + IF ??Z?EQUAL??WARNING?INVALID COLOUR ?A SET TO WHITE?	18/08/81	101
43	DIRECTIVE	000380 + DFT Z = 1536	24/03/81	102
44	DIRECTIVE	000390 Z1% = USR (Z1% ,USR (ZJ%) AND NOT 1536 OR ?Z)	05/05/81	103
45	DIRECTIVE	000400 + ELSE	24/03/81	104
46	DIRECTIVE	000410 + IF ??A?EQUAL?BLUE? SET Z = ZL%	18/08/81	105
47	DIRECTIVE	000420 + IF ??A?EQUAL?GREEN?SET Z = ZM%	18/08/81	106
48	DIRECTIVE	000430 + IF ??A?EQUAL?RED? SET Z = ZN%	18/08/81	107
49	DIRECTIVE	000440 + IF ??A?EQUAL?WHITE?SET Z = 3	18/08/81	108
50	DIRECTIVE	000450 + IF ??Z?EQUAL??WARNING?INVALID COLOUR ?A = SET TO WHITE	18/08/81	109
51	DIRECTIVE	000460 + DFT Z = 3	24/03/81	110
52	DIRECTIVE	000470 + COMPUTE Z = ?1 + 1	26/03/81	111
53	DIRECTIVE	000480 POKE ?2,?Z	26/03/81	112
54	DIRECTIVE	000490 +FI	24/03/81	113
55	DIRECTIVE	000500 +FI	26/03/81	114
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Whrcolors!

Whrcolors!

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: CONVERT

DATE: 24/09/81

TIME: 10:50

PAGE: 9

1					
2					
3	CONVERT	000000 #	CONVERT	03/06/81	115
4					
5		000010 ?A		03/06/81	116
6		000020 Z=PTR(?A):GOSUB #CONVERT		03/06/81	117
7	DIRECTIVE	000030 +C EXIT		09/06/81	118
8		000040 (		03/06/81	119
9		000050 P SUB		03/06/81	120
10		000060 CONVERT		03/06/81	121
11		000070 Z1=DPEEK(Z+2):Z=DPEEK(Z)		03/06/81	122
12		000080 FOR Z2=Z TO Z+Z1-1		03/06/81	123
13		000090 Z%=PEEK(Z2)		03/06/81	124
14		000100 IF(Z%AND96)=96 THEN POKE Z2,Z%ANDNOT32X		03/06/81	125
15		000110 NEXT Z2		03/06/81	126
16		000120 RETURN		03/06/81	127
17		000130 )		03/06/81	128
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REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO DISPLAY DATE: 24/09/81 TIME: 10:50 PAGE: 10

1	DISPLAY	000000 # DISPLAY	24/03/81	129
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3		000010 ?A B	18/03/81	130
4	DIRECTIVE	000020 +UNSET C	06/05/81	131
5	DIRECTIVE	000030 +IF??A?EQUAL?T1?SET C = ZK%	18/08/81	132
6	DIRECTIVE	000040 +IF??A?EQUAL?G1?SET C = ZL%	18/08/81	133
7	DIRECTIVE	000050 +IF??A?EQUAL?T2?SET C = ZM%	18/08/81	134
8	DIRECTIVE	000060 +IF??A?EQUAL?G2?SET C = ZN%	18/08/81	135
9	DIRECTIVE	000070 +IFF??C?EQUAL??WARNING?INVALID SCREEN TYPE ?A	18/08/81	136
10	DIRECTIVE	000080 +EXIT	06/05/81	137
11	DIRECTIVE	000090 +FI	06/05/81	138
12		000100 Z1%=?C	06/05/81	139
13	DIRECTIVE	000110 +DFT B = ON	06/05/81	140
14	DIRECTIVE	000120 +IFF??B?EQUAL?OFF?	18/08/81	141
15		000130 Z2%=?L%	06/05/81	142
16	DIRECTIVE	000140 +ELSE	06/05/81	143
17		000150 Z2%=?M%	06/05/81	144
18	DIRECTIVE	000160 +FI	06/05/81	145
19		000170 GOSUB #DISPLAY	07/05/81	146
20	DIRECTIVE	000180 +C EXIT	06/05/81	147
21		000190 (	06/05/81	148
22		000200 P SUB	06/05/81	149
23		000210 DISPLAY	06/05/81	150
24		000220 Z3%=?USR(ZJ%)	08/05/81	151
25		000230 IF Z1%=?M% THEN IF (Z3% AND 6144)=6144 THEN RETURN	08/05/81	152
26		000240 IF Z1%=?N% THEN IF (Z3% AND 4)=4 THEN RETURN	08/05/81	153
27		000250 IF Z1%=?K% THEN Z1%=? ELSE IF Z1%=?L% THEN Z1%=?192X	07/05/81	154
28		000260 IF Z2%=?N% THEN Z1%=?USR(Z1%,Z3% OR Z1%):RETURN	08/05/81	155
29		000270 Z1%=?USR(Z1%,Z3% AND NOT Z1%):RETURN	08/05/81	156
30		000280 )	06/05/81	157
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3	EDITOR	000000 #EDITOR			01/04/81	158
4						
5		000010 ? A B C D E F G H I J			02/06/81	159
6		000020 **VARIABLE USAGE: Z% = CHARACTER RETURNED			27/03/81	160
7		000030 ** ZR% = CURSOR ROW ZC% = CURSOR COLUMN			27/03/81	161
8		000040 ** ZA% = START ROW ZB% = START COLUMN			27/03/81	162
9		000050 ** ZY% = LAST ROW ZZ% = LAST COLUMN			27/03/81	163
10		000060 ** ZD% = BLANK COLS ZE% = CHAR UNDER CURSOR			27/03/81	164
11		000070 ** ZF% = MACRO CALL COUNT			01/04/81	165
12	DIRECTIVE	000080 +DFT A = ZL%			05/05/81	166
13	DIRECTIVE	000090 +DFT B = ZL%			05/05/81	167
14	DIRECTIVE	000100 +DFT C = 22			27/03/81	168
15	DIRECTIVE	000110 +DFT D = 39			27/03/81	169
16	DIRECTIVE	000120 +DFT E = ER			27/03/81	170
17	DIRECTIVE	000130 +DFT F = ZL%			05/05/81	171
18	DIRECTIVE	000140 +DFT H = ZL%			05/05/81	172
19	DIRECTIVE	000150 +IF??A?GREATER??SET A = ZL%			18/08/81	173
20	DIRECTIVE	000160 +IF??B?GREATER??SET A = ZL%			18/08/81	174
21	DIRECTIVE	000170 +IF??C?GREATER??SET C = 22			18/08/81	175
22	DIRECTIVE	000180 +IF??D?GREATER??SET D = 79			18/08/81	176
23		ZR%=?A:ZC%=?B:ZA%=?A:ZB%=?B:ZY%=?C:ZZ%=?D:ZD%=?F:ZF%=?#			22/04/81	177
24	DIRECTIVE	000190 +IFF??I?NOT?EQUAL?GET?IF??I?NOT?EQUAL??			18/08/81	178
25	DIRECTIVE	000200 +ELSE			29/04/81	179
26	DIRECTIVE	000210 +	IFF??G?NOT?EQUAL??		18/08/81	180
27		000220 FOR Z%=ZA%TOZY%			02/04/81	181
28		000230 PRINT@Z%,ZB%)?G(?H+Z%-ZA%)}			22/04/81	182
29		000240 NEXT Z%			02/04/81	183
30	DIRECTIVE	000250 + FI			02/04/81	184
31	DIRECTIVE	000260 +FI			02/04/81	185
32		000270 GOSUB #EDITX			22/04/81	186
33		000280 M CLEAR23			27/03/81	187
34		000290 C			27/03/81	188
35		000300 P EDITSUB			27/03/81	189
36	DIRECTIVE	000310 +IFF??#?EQUAL?1?			18/08/81	190
37		000320 [-] #?E			03/04/81	191
38	DIRECTIVE	000330 +ELSE			02/04/81	192
39		000340 [-] ,#?E			03/04/81	193
40	DIRECTIVE	000350 +FI			02/04/81	194
41		000360 )			27/03/81	195
42	DIRECTIVE	000370 +IFF??I?NOT?EQUAL?PUT?IF??I?NOT?EQUAL??			18/08/81	196
43	DIRECTIVE	000380 +ELSE			29/04/81	197
44	DIRECTIVE	000390 +	IFF??G?NOT?EQUAL??		18/08/81	198
45		000400 Z2%=?Z% - ZB% + ZM%			05/05/81	199
46		000410 Z\$ = SPC(Z2%)			22/04/81	200
47		000420 Z=DPEEK(PTR(Z\$)):IFZ>ZH%THENZ=Z-ZH%			05/05/81	201
48		000430 FOR Z% = ZA% TO ZY%		For start row End row	27/03/81	202
49		000440 Z1% = USR(8,Z,Z2%,Z%*Z0%+ZB%)			05/05/81	203
50		000450 ?G(?H+Z%-ZA%)=Z\$			23/04/81	204
51		000460 NEXT Z%			27/03/81	205
52		000470 Z\$="" address length Rows/cols			27/03/81	206
53	DIRECTIVE	000480 + FI array name			02/04/81	207
54	DIRECTIVE	000490 +FI			27/03/81	208
55	DIRECTIVE	000500 +CEXIT			27/03/81	209
56		000510 C			27/03/81	210
57		000520 P SUB			27/03/81	211
58		000530 EDIT			27/03/81	212
59		000540 SET CURRENT CURSOR POSITION			27/03/81	213
60						

1	000560 M CLEAR23	03/04/81	214
2	000570 Z\$= CHR\$(3)+"PRESS"+CHR\$(8)+"ENTER"+CHR\$(9)+"TO EXIT"	15/06/81	215
3	000580 M REVERSE1/Z\$	15/06/81	216
4	000590 M PRINT23/Z\$	15/06/81	217
5	000600 Z% = USR(ZJ%)	14/07/81	218
6	000610 Z1% = USR(ZI%,Z%)	14/07/81	219
7	000620 IF ( Z% AND 6144<> 6144 ) AND ZZ% > 39 THEN ZZ%=39X	14/07/81	220
8	000630 EDIT0	16/04/81	221
9	000640 R EDIT-BREAK	18/05/81	222
10	000650 PRINT@(ZR%,ZC%);	02/06/81	223
11	000660 EDIT1	27/03/81	224
12	000670 Z%#ZL%:Z1%#ZL%	02/06/81	225
13	000680 ** GET CHARACTER THAT IS WAITING	01/04/81	226
14	000690 Z% = USR(1)/256	02/06/81	227
15	000700 IF Z% = 13 THENRETURNX	02/06/81	228
16	000710 IF Z%#29THENZ%#3X	08/05/81	229
17	000720 IF Z% > 17 OR Z% = ZL% GOTO #EDIT2X	15/06/81	230
18	DIRECTIVE 000730 &IF/NO/REVERSE/GOTO/EDIT1A	22/07/81	231
19	000740 IF ZQ%#ZN% THEN Z1%#USR(11,ZL%):ZQ%#ZN% X	22/07/81	232
20	LABEL 000750 &EDIT1A	22/07/81	233
21	000760 ON Z% GOSUB #E1,#E2,#E3,#ER,#ER,#ER,#E8	08/05/81	234
22	000770 ,#E9,#E10,#E11,#ER,#ER,#ER,#ER,#E16,#E17 X	19/05/81	235
23	DIRECTIVE 000780 &IF/NO/REVERSE/GOTO/EDIT1B	22/07/81	236
24	000790 IF ZQ%#ZN% THEN Z1%#USR(11,ZN%):ZQ%#ZN% X	22/07/81	237
25	LABEL 000800 &EDIT1B	22/07/81	238
26	000810 GOTO #EDIT0X	08/05/81	239
27	000820 EDIT2	02/06/81	240
28	000830 ON ZF% GOSUB	04/05/81	241
29	000840 R EDITSUB	04/05/81	242
30	000850 X	04/05/81	243
31	000860 ** LOOP IF INVALID CHARACTER	04/05/81	244
32	000870 IF Z%#ZL%GOTO #EDIT1 ELSE	05/05/81	245
33	000880 ** PRINT CHARACTER ON THE SCREEN	27/03/81	246
34	000890 PRINT@(ZR%,ZC%)CHR\$(Z%);X	03/06/81	247
35	DIRECTIVE 000900 +IFF/?J/EQUAL/COL/	02/06/81	248
36	000910 EDIT3	01/04/81	249
37	DIRECTIVE 000920 +FI	02/06/81	250
38	000930 ZC% = ZC%+ZM%	05/05/81	251
39	000940 IF ZC% > ZZ% THEN ZC% = ZB%:ZR% = ZR%+ZM%:IF ZR% > ZY% THEN	05/05/81	252
40	000950 ZR% = ZA%:GOTO #EDIT0 ELSE GOTO #EDIT0X	02/06/81	253
41	DIRECTIVE 000960 +IFF/?J/EQUAL/COL/	02/06/81	254
42	000970 IF ZD%#ZL%THEN#EDIT0X	05/05/81	255
43	000980 Z%#ZC%-ZB%	16/04/81	256
44	000990 IFINT(Z%/ZD%)*ZD%-ZM%#Z% GOTO #EDIT3X	05/05/81	257
45	001000 GOTO #EDIT0	16/04/81	258
46	DIRECTIVE 001010 +ELSE	02/06/81	259
47	001020 GOTO #EDIT1	02/06/81	260
48	DIRECTIVE 001030 +FI	02/06/81	261
49	001040 ER	27/03/81	262
50	001050 RETURN	27/03/81	263
51	001060 E1	27/03/81	264
52	001070 ** CHARACTER INSERT	27/03/81	265
53	DIRECTIVE 001080 +IFF/?J/EQUAL/COL/	03/06/81	266
54	001090 IFZD%#ZL%THENZ2%#ZZ%ELSEZ2%#INT((ZC%-ZB%)/ZD%+ZM%)*ZD%+ZB%#ZN% X	05/05/81	267
55	DIRECTIVE 001100 +ELSE	02/06/81	268
56	001110 ZZ%#ZZ%	02/06/81	269
57	DIRECTIVE 001120 +FI	02/06/81	270

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ATU

MACRO FILE: PP0MSY

MACRO: EDITOR

DATE: 24/09/81

TIME: 10:50

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1
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3   001130 M TEXTGET?Z$?ZR%?ZC%?Z2%-ZC%           18/08/81 271
4   001140 PRINT@(ZR%,ZC%)" " ;Z$;                27/03/81 272
5   001150 RETURN                                  27/03/81 273
6   001160 E2                                     27/03/81 274
7   001170 ** CHARACTER DELETE                  27/03/81 275
8   DIRECTIVE +IFF/?J/EQUAL/COL
9   001190 IF ZD% = ZL% THEN Z2% = ZZ% ELSE Z2% = INT((ZC%-ZB%)/ZD%+ZM%)*ZD%+ZB%-ZN%* 05/05/81 277
10  DIRECTIVE +ELSE
11  001210 Z2% = ZZ%                                02/06/81 278
12  DIRECTIVE +FI
13  001230 M TEXTGET?Z$?ZR%?ZC%+1?Z2%-ZC%           18/08/81 281
14  001240 PRINT@(ZR%,ZC%)Z$;" "
15  001250 RETURN                                  27/03/81 283
16  001260 E3                                     08/05/81 284
17  001270 ** CLEAR SCREEN - USES THE CALC KEY    08/05/81 285
18  001280 Z$=SPC(ZZ%-ZB%+ZM%)                   02/06/81 286
19  001290 FOR Z% = ZA% TO ZY%
20  001300 PRINT@(Z%,ZB%)Z$; :NEXTZ%
21  001310 RETURN                                  08/05/81 288
22  001320 E6                                     27/03/81 289
23  001330 ** HELP - TO BE ADDED LATER            27/03/81 291
24  001340 R HELP                                  08/05/81 292
25  001350 RETURN                                  27/03/81 293
26  001360 E8                                     27/03/81 294
27  001370 ** BACKSPACE                            27/03/81 295
28  001380 ZC% = ZC%-ZM%                         05/05/81 296
29  001390 IF ZC% < ZB% THEN ZC% = ZZ% ;ZR% = ZR%-ZM% ;IF ZR% < ZA% THEN ZR% = ZY%* 05/05/81 297
30  DIRECTIVE +IFF/?J/EQUAL/COL/
31  001410 IF ZD% = ZL% THEN RETURN*
32  001420 ** CHECK THAT COLUMN SHOULD NOT BE BLANK 27/03/81 300
33  001430 IF INT((ZC%-ZB%+ZM%)/ZD%)*ZD%+ZB%-ZM% <> ZC% THEN RETURN ELSE GOTO #E8 02/06/81 301
34  DIRECTIVE +ELSE
35  001440 RETURN                                  02/06/81 302
36  DIRECTIVE +FI
37  001470 E9                                     27/03/81 303
38  001480 ** CURSOR FORWARD                      27/03/81 304
39  001490 ZC% = ZC%+ZM%                         05/05/81 305
40  001500 IF ZC% > ZZ% THEN ZC% = ZB% ;ZR% = ZR%+ZM% ;IF ZR% > ZY% THEN ZR% = ZA%* 02/06/81 306
41  DIRECTIVE +IFF/?J/EQUAL/COL/
42  001520 IF ZD% = ZL% THEN RETURN*
43  001530 ** CHECK THAT COLUMN SHOULD NOT BE BLANK 27/03/81 307
44  001540 IF INT((ZC%-ZB%+ZM%)/ZD%)*ZD%+ZB%-ZM% <> ZC% THEN RETURN ELSE GOTO #E9 02/06/81 308
45  DIRECTIVE +ELSE
46  001560 RETURN                                  02/06/81 309
47  DIRECTIVE +FI
48  001580 E10                                    07/04/81 310
49  001590 ** MOVE CURSOR DOWN                    07/04/81 311
50  001600 ZR% = ZR%+ZM% ;IF ZR% > ZY% THEN ZR% = ZA%* 05/05/81 312
51  001610 RETURN                                  07/04/81 313
52  001620 E11                                     27/03/81 314
53  001630 ** MOVE CURSOR UP                     07/04/81 315
54  001640 ZR% = ZR%-ZM%                         05/05/81 316
55  001650 IF ZR% < ZA% THEN ZR% = ZY%*          27/03/81 317
56  001660 RETURN                                  27/03/81 318
57  001670 E16                                     19/05/81 319
58  001680 ** LINE INSERT                      27/03/81 320
59  001690 Z2% = ZZ%-ZB%+ZM%                   05/05/81 321
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REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: EDITOR

DATE: 24/09/81

TIME: 10:50

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3	001700	Z\$=SPC(Z2%)		02/06/81	328
4	001710	Z=DPEEK(PTR(Z\$));IFZ>ZH%THENZ=Z-ZH%		05/05/81	329
5	001720	FORZ%=ZY%-ZM% TO ZR% STEP ZK%		05/05/81	330
6	001730	Z1%=USR(8,Z,Z2%,Z%*Z0%+ZB%)		05/05/81	331
7	001740	PRINT@Z%+ZM%,ZB%)Z\$)		05/05/81	332
8	001750	NEXT Z%		27/03/81	333
9	001760	PRINT@ZRX%,ZB%)SPC(Z2%)		27/03/81	334
10	001770	ZC%=ZB%		27/03/81	335
11	001780	RETURN		27/03/81	336
12	001790	E17		27/03/81	337
13	001800	** LINE DELETE		27/03/81	338
14	001810	Z2%=ZZ%-ZB%+ZM%		05/05/81	339
15	001820	Z\$=SPC(Z2%)		02/06/81	340
16	001830	Z=DPEEK(PTR(Z\$));IFZ>ZH%THENZ=Z-ZH%		05/05/81	341
17	001840	FORZ%=ZR% TO ZY%-ZM%		05/05/81	342
18	001850	Z1%=USR(8,Z,Z2%,(Z%+ZM%)*Z0%+ZB%)		05/05/81	343
19	001860	PRINT@Z%,ZB%)Z\$)		22/04/81	344
20	001870	NEXT Z%		27/03/81	345
21	001880	PRINT@ZY%,ZB%)SPC(Z2%)		27/03/81	346
22	001890	ZC%=ZB%		27/03/81	347
23	001900	RETURN		27/03/81	348
24	001910	)		27/03/81	349
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Whincolls

Whincolls

LINE	EDITORFS	000000 * EDITORFS FROM SOURCE FILE	02/12/81 000000 350
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4	EDITORFS	000000 * EDITORFS FROM SOURCE FILE	02/12/81 000000 350
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EDITORFS 000000 \* EDITORFS FROM SOURCE FILE 02/12/81 000000 350  
 000010 \*\*VARIABLE USAGE: ZX = CHARACTER RETURNED 02/12/81 000010 351  
 000020 \*\* ZRX = CURSOR ROW ZCX = CURSOR COLUMN 02/12/81 000020 352  
 000030 \*\* ZYX = LAST ROW (22) ZZX = LAST COLUMN (39) 02/12/81 000030 353  
 000040 \*\* ZEX = CHAR UNDER CURSOR 02/12/81 000040 354  
 000050 ZRX=ZL%:ZCX=ZL%:ZY%=21:ZZX=39:ZXZ=ZH% 02/12/81 000050 355  
 000060 EDIT0 02/12/81 000060 356  
 000070 IF ZX<>ZH% THEN ?(ZRX,ZCX)CHR\$(ZX%)>x 02/12/81 000070 357 R  
 000080 EDIT00 02/12/81 000080 358  
 000090 PRINT(ZRX,ZCX)) 02/12/81 000090 359  
 000100 EDIT1 02/12/81 000100 360  
 000110 ZX=ZL%:ZCX=ZL% 02/12/81 000110 361  
 000120 \*\* GET CHARACTER THAT IS WAITING 02/12/81 000120 362  
 000130 Z% = USR(1)/256 02/12/81 000130 363  
 000140 IF ZX > 31 OR ZX = ZL% GOTO #EDIT2X 02/12/81 000140 364  
 000150 IF ZX>18 THEN Z%=ZX-9X 02/12/81 000150 365  
 000160 IF ZX<12 THEN ON ZX GOSUB #E1:#E2:#E3:#E4:#E5:#E6# 04/12/81 000160 366  
 000170 - #E7:#E8:#E9:#E10:#E11X 04/12/81 000170 367  
 000180 IF ZX>11 THEN ON ZX-11 GOSUB #E12:#E13:#E14:#E15# 04/12/81 000180 368  
 000190 - #E16:#E17:#E18:#E28:#E29:#E30:#E31X 04/12/81 000190 369  
 000200 GOTO #EDIT0X 02/12/81 000200 370  
 000210 EDIT2 02/12/81 000210 371  
 000220 ZX=ZH% 02/12/81 000220 372  
 000230 R EDITSUB 02/12/81 000230 373  
 000240 \*\* LOOP IF INVALID CHARACTER 02/12/81 000240 374  
 000250 IF Z% = ZL% GOTO #EDIT1X 02/12/81 000250 375  
 000260 \*\* PRINT CHARACTER ON THE SCREEN 02/12/81 000260 376  
 000270 PRINT(ZRX,ZCX)CHR\$(ZX%) 02/12/81 000270 377  
 000280 GOSUB #E0 02/12/81 000280 378  
 000290 GOTO #EDIT00 02/12/81 000290 379  
 000300 E0 02/12/81 000300 380  
 000310 ZCX= ZCX + ZMX 02/12/81 000310 381  
 000320 IF ZCX > ZZX THEN ZCX = ZL%:ZRX = ZX + ZMX:IF ZX > ZYX THEN 02/12/81 000320 382  
 000330 ZRX = ZL% 02/12/81 000330 383  
 000340 RETURN 02/12/81 000340 384  
 000350 E1 02/12/81 000350 385  
 000360 \*\* CHARACTER INSERT 02/12/81 000360 386  
 000370 ZZX=ZX-ZCX 02/12/81 000370 387  
 000380 GOSUB #ETEXT 02/12/81 000380 388  
 000390 PRINT "ZS" 02/12/81 000390 389  
 000400 RETURN 02/12/81 000400 390  
 000410 E2 02/12/81 000410 391  
 000420 \*\* CHARACTER DELETE 02/12/81 000420 392  
 000430 ZZX=ZX-ZCX 02/12/81 000430 393  
 000440 ZCX=ZCX+ZMX:GOSUB #ETEXT:ZCX=ZCX-ZMX 02/12/81 000440 394  
 000450 PRINT(ZRX,ZCX)ZS" " 02/12/81 000450 395  
 000460 RETURN 02/12/81 000460 396  
 000470 E3 02/12/81 000470 397  
 000480 \*\* CLEAR SCREEN 02/12/81 000480 398  
 \*000490 CLS:PRINT\$PC(880) 08/12/81 000490 399  
 000500 ZRX=ZL%:ZCX=ZL%:ZX=ZH%:RETURN 02/12/81 000500 400  
 000510 E4 02/12/81 000510 401  
 000520 \*\* CLEAR TO END OF LINE 02/12/81 000520 402  
 000530 PRINT\$PC(ZZX-ZCX+ZMX):ZX=ZH%:RETURN 02/12/81 000530 403  
 000540 E5 02/12/81 000540 404  
 000550 \*\* CLEAR TO END OF PAGE 02/12/81 000550 405

REPORT SX3CMD/2.2 REP INPUT FILE: PPOMSY OUTPUT FILE: PPODSY MACRO: EDITORFS DATE: 08/12/81 TIME: 14:28 PAGE: 3

1						
2						
3	000560	PRINTSPC((ZY%-ZR%)*40+ZZ%-ZC%+ZM%)  ZX%-ZH% RETURN		02/12/81	000560	406
4	000570 E6			02/12/81	000570	407
5	000580 ** HELP - TO BE ADDED LATER			02/12/81	000580	408
6	000590 R HELP			02/12/81	000590	409
7	000600 RETURN			02/12/81	000600	410
8	000610 E7			02/12/81	000610	411
9	000620 ** HOME CURSOR			02/12/81	000620	412
10	000630 ZR%-ZL% ZC%-ZL% ZX%-ZH% RETURN			02/12/81	000630	413
11	000640 E8			02/12/81	000640	414
12	000650 ** BACKSPACE			02/12/81	000650	415
13	000660 ZC%-ZC%-ZM%			02/12/81	000660	416
14	000670 IF ZC% < ZL% THEN ZC%-ZZ% ZR%-ZC%-ZM% IF ZR% < ZL% THEN ZR%-ZY% 000680 RETURN			02/12/81	000670	417
15	000690 E9			02/12/81	000680	418
16	000700 ** CURSOR FORWARD			02/12/81	000690	419
17	000710 GOSUB #E0			02/12/81	000700	420
18	000720 RETURN			02/12/81	000710	421
19	000730 E10			02/12/81	000720	422
20	000740 ** MOVE CURSOR DOWN			02/12/81	000730	423
21	000750 ZR%-ZC%-ZM% IF ZR% > ZY% THEN ZR%-ZAXX?			02/12/81	000740	424
22	000760 RETURN			02/12/81	000750	425
23	000770 E11			02/12/81	000760	426
24	000780 ** MOVE CURSOR UP		ZL%.	02/12/81	000770	427
25	000790 ZR%-ZC%-ZM%			02/12/81	000780	428
26	000800 IF ZR% < ZL% THEN ZR%-ZY% 000810 RETURN			02/12/81	000790	429
27	000820 E12			02/12/81	000800	430
28	000830 ** RETURN TO START OF LINE			02/12/81	000810	431
29	000840 ZC%-ZL% RETURN			02/12/81	000820	432
30	000850 E13			02/12/81	000830	433
31	000860 ** NEXT LINE			02/12/81	000840	434
32	000870 ZC%-ZL% GOSUB #E10 ZX%-ZH% RETURN			02/12/81	000850	435
33	000880 E14			02/12/81	000860	436
34	000890 ** INSERT CHARACTER ON THE PAGE			02/12/81	000870	437
35	000900 ZZ%-879-ZC%-ZR%*40 GOSUB #ETEXT			02/12/81	000880	438
36	000910 PRINT#Z\$ RETURN			02/12/81	000890	439
37	000920 E15			02/12/81	000900	440
38	000930 ** DELETE A CHARACTER ON THE PAGE			02/12/81	000910	441
39	000940 ZZ%-880-ZC%-ZR%*40			02/12/81	000920	442
40	000950 GOSUB #ETEXT			02/12/81	000930	443
41	000960 PRINTRIGHTS(ZS,ZZ%-1)  " "  RETURN			02/12/81	000940	444
42	000970 E16			02/12/81	000950	445
43	000980 ** LINE INSERT			02/12/81	000960	446
44	000990 ZZ%-(ZY%-ZR%)*40			02/12/81	000970	447
45	001000 ZC%-ZL% GOSUB #ETEXT			02/12/81	000980	448
46	001010 PRINT@ZR%,ZC%)SPC(40) Z\$)			02/12/81	000990	449
47	001020 RETURN			02/12/81	001000	450
48	001030 E17			02/12/81	001010	451
49	001040 ** LINE DELETE			02/12/81	001020	452
50	001050 ZZ%-(ZY%-ZR%)*40			02/12/81	001030	453
51	001060 ZC%-ZL% ZR%-ZC%-ZM% GOSUB #ETEXT ZR%-ZC%-ZM% 001070 PRINT@ZR%,ZL%)Z\$ SPC(40)			02/12/81	001040	454
52	001080 RETURN			02/12/81	001050	455
53	001090 E18			02/12/81	001060	456
54	001100 ** REPEAT (CTR R)			02/12/81	001070	457
55	001110 PRINT@ZR%,ZC%) ZX%-USR(15) RETURN			02/12/81	001080	458
56	001120 E28			02/12/81	001090	459
57				02/12/81	001100	460
58				02/12/81	001110	461
59				02/12/81	001120	462
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REPORT SX3CMD/242 REP INPUT FILE: PPOMSY OUTPUT FILE: PPODSY MACRO: EDITORFS DATE: 08/12/81 TIME: 14:28 PAGE: 4

1	001130	** UP/LEFT CURSOR	02/12/81	001130	463
2	001140	GOSUB #E8!GOSUB #E11!RETURN	02/12/81	001140	464
3	001150	E29	02/12/81	001150	465
4	001160	** UP/RIGHT CURSOR	02/12/81	001160	466
5	001170	GOSUB #E9!GOSUB #E11!RETURN	02/12/81	001170	467
6	001180	E30	02/12/81	001180	468
7	001190	** DOWN/LEFT CURSOR	02/12/81	001190	469
8	001200	GOSUB #E8!GOSUB #E10!RETURN	02/12/81	001200	470
9	001210	E31	02/12/81	001210	471
10	001220	** DOWN/RIGHT CURSOR	02/12/81	001220	472
11	001230	GOSUB #E9!GOSUB #E10!RETURN	02/12/81	001230	473
12	001240	MR	02/12/81	001240	474
13	001250	RETURN	02/12/81	001250	475
14	001260	ETEXT	02/12/81	001260	476
15	001270	** GETS TEXT FROM THE SCREEN	02/12/81	001270	477
16	001280	ZX%=ZH%	02/12/81	001280	478
17	001290	Z\$=SPC(Z2%)	02/12/81	001290	479
18	001300	IF Z2%<1 THEN RETURN	02/12/81	001300	480
19	001310	ZZ=DPEEK(PTR(Z\$))!IF ZZ>ZH% THEN ZZ=ZZ-ZH%	02/12/81	001310	481
20	001320	Z3%=USR(8/ZZ-Z2%+ZR%+256+ZC%)!	02/12/81	001320	482
21	001330	RETURN	02/12/81	001330	483
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	GCIRCLE *000000 #	GCIRCLE FROM SOURCE FILE	22/12/81 000000 485/
1			
2	GCIRCLE *000000 #	GCIRCLE FROM SOURCE FILE	22/12/81 000000 485/
3			
4	*000010 ? A B C D E		22/12/81 000010 486
5	*000020 ** ZP% = Y COORD, ZQ% = X COORD, ZS% = DEVIATION FROM ECLIPSE		22/12/81 000020 487
6	DIRECTIVE *000030 + IFF/?D/NOT/EQUAL/OFF/IF/?D/NOT/EQUAL/ON/IF/?D/NOT/EQUAL//		22/12/81 000030 488
7	DIRECTIVE *000040 + WARNING/INCORRECT PARAMETER, SET TO ON/		22/12/81 000040 489
8	DIRECTIVE *000050 + SET D = ON		22/12/81 000050 490
9	DIRECTIVE *000060 + FI		22/12/81 000060 491
10	DIRECTIVE *000070 + DFT E = 2.04		22/12/81 000070 492
11	*000080 Z7% = ?A		22/12/81 000080 493
12	*000090 Z8% = ?B		22/12/81 000090 494
13	*000100 Z9% = ?C		22/12/81 000100 495
14	*000110 ZT = 1/?E		22/12/81 000110 496
15	*000120 IF ZT > 100 THEN ZT = 100!		22/12/81 000120 497
16	*000130 IF ZT < .01 THEN ZT = .01!		22/12/81 000130 498
17	DIRECTIVE *000140 + IFF/?D/NOT/EQUAL/OFF/		22/12/81 000140 499
18	DIRECTIVE *000150 + SET D = 0		22/12/81 000150 500
19	DIRECTIVE *000160 + ELSE		22/12/81 000160 501
20	DIRECTIVE *000170 + SET D = 1		22/12/81 000170 502
21	DIRECTIVE *000180 + FI		22/12/81 000180 503
22	*000190 Z6% = ?D		22/12/81 000190 504
23	*000200 GOSUB #GCIRCLE		22/12/81 000200 505
24	DIRECTIVE *000210 + CEXIT		22/12/81 000210 506
25	*000220 C		22/12/81 000220 507
26	*000230 P SUB		22/12/81 000230 508
27	*000240 GCIRCLE		22/12/81 000240 509
28	*000250 ZP% = ZL%		22/12/81 000250 510
29	*000260 ZQ% = Z9%		22/12/81 000260 511
30	*000270 ZS% = -Z9% + .25		22/12/81 000270 512
31	*000280 CIRC2		22/12/81 000280 513
32	*000290 IF ZQ% < ZL% THEN RETURN!		22/12/81 000290 514
33	*000300 ** CALC AND PLOT POINTS		22/12/81 000300 515
34	*000310 ZUX = Z7% + ZP%		22/12/81 000310 516
35	*000320 ZVX = Z8% + ZQ%		22/12/81 000320 517
36	*000330 ZF% = Z8% + Z8% - ZVX		22/12/81 000330 518
37	*000340 ZG% = Z7% + Z7% - ZUX		22/12/81 000340 519
38	*000350 ZX = ZUX; ZY = ZVX: GOSUB #GCIRCLE4		22/12/81 000350 520
39	*000360 ZX = ZUX; ZY = ZF%: GOSUB #GCIRCLE4		22/12/81 000360 521
40	*000370 ZX = ZG%; ZY = ZVX: GOSUB #GCIRCLE4		22/12/81 000370 522
41	*000380 ZX = ZG%; ZY = ZF%: GOSUB #GCIRCLE4		22/12/81 000380 523
42	*000390 ** CALC NEW POINTS ON REFERENCE ELLIPSE		22/12/81 000390 524
43	*000400 IF ZP% * ZT > ZQ% GOTO #CIRC1!		22/12/81 000400 525
44	*000410 ZP% = ZP% + 1		22/12/81 000410 526
45	*000420 ZS% = ZS% + ZP% * ZN% * ZT + ZT		22/12/81 000420 527
46	*000430 IF ZS% > 0 THEN ZQ% = ZQ% - 1 : ZS% = ZS% - ZQ% * ZN% + ZN%		22/12/81 000430 528
47	*000440 GOTO #CIRC2		22/12/81 000440 529
48	*000450 CIRC1		22/12/81 000450 530
49	*000460 ZQ% = ZQ% - 1 : ZS% = ZS% - ZQ% * ZN% + ZN%		22/12/81 000460 531
50	*000470 IF ZS% < 0 THEN ZP% = ZP% + 1 : ZS% = ZS% + ZP% * ZN% * ZT + ZT!		22/12/81 000470 532
51	*000480 GOTO #CIRC2		22/12/81 000480 533
52	*000490 GCIRCLE4		22/12/81 000490 534
53	*000500 ** X, Y ARE REVERSED !!!!!!!		22/12/81 000500 535
54	*000510 IF ZX > 203 OR ZX < 0 GOTO #GCIRCLE1!		22/12/81 000510 536
55	*000520 IF ZY > 239 OR ZY < 0 GOTO #GCIRCLE1!		22/12/81 000520 537
56	*000530 IF Z6% <> 0 GOTO #GCIRCLE2!		22/12/81 000530 538
57	*000540 R GCIRCLE-EX1		22/12/81 000540 539
58	*000550 M GRESET?ZX?ZY?		22/12/81 000550 540
59			
60			

REPORT SX3CMD/2.2 REP INPUT FILE: PP0MSY OUTPUT FILE: PP0DSY MACRO: GCIRCLE DATE: 22/12/81 TIME: 14:23 PAGE: 3

1  
2 \*000560 GCIRCLE2  
3 \*000570 IF 76%<>1 GOTO#GCIRCLE1 !  
4 \*000580 R GCIRCLE-EX2  
5 \*000590 M GSET?ZX?ZY?  
6 \*000600 GCIRCLE1  
7 \*000610 RETURN  
8 \*000620 )  
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22/12/81 000560 541  
22/12/81 000570 542  
22/12/81 000580 543  
22/12/81 000590 544  
22/12/81 000600 545  
22/12/81 000610 546  
22/12/81 000620 547

Whitecells

Whitecells

(C) REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: GCLS DATE: 24/09/81 TIME: 10:50 PAGE: 16

GCLS	000000 #	GCLS	20/03/81	367
DIRECTIVE	000010 + COMPUTE Z = ?0 + ?1 +6		22/04/81	368
	000020 Z1%USR(72,ZL%)		05/05/81	369

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0NSY

MACROS: GCONVERT

DATE: 24/09/81

TIME: 10:50

PAGE: 17

GCONVERT	000000 #	GCONVERT		25/03/81	370
DIRECTIVE	000010 ? A B			25/03/81	371
	000020 + COMPUTE 2 = ?1 + ?0 + 20			26/03/81	372
	000030 Z=PTR(?A):IFZ>ZH%THENZ=Z-ZHx			05/05/81	373
	000040 Z1% = USR(?2,Z)			30/04/81	374
DIRECTIVE	000050 +IF??B?EQUAL??EXIT			18/08/81	375
DIRECTIVE	000060 + COMPUTE 2 = ?1 + 2			26/03/81	376
	000070 ?B=SPC(DPEEK(?2))			02/06/81	377
DIRECTIVE	000080 + COMPUTE 2 = ?1 + ?0 + 16			26/03/81	378
	000090 Z=PTR(?B):IFZ>ZH%THENZ=Z-ZHx			05/05/81	379
	000100 Z1% = USR(?2,Z)			13/05/81	380

REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO# GETNAME DATE: 24/09/81 TIME: 10:50 PAGE# 18

LINE	GETNAME	000000 # GETNAME	23/03/81	381
5	000010	?A B	12/03/81	382
6	000020	GOSUB #GETNAME	03/04/81	383
7	000030	?A = Z\$	03/04/81	384
8	000040	?B = Z1\$	03/04/81	385
9	DIRECTIVE	000050 +CEXIT	03/04/81	386
10	000060	(	03/04/81	387
11	000070	P SUB	03/04/81	388
12	000080	GETNAME	03/04/81	389
13	000090	Z\$=SPC(12)	02/06/81	390
14	000100	Z=DPEEK(PTR(Z\$)):IFZ>ZH%THENZ=Z-ZH%	05/05/81	391
15	000110	Z1% = USR (51,ZM%,Z)	05/05/81	392
16	000120	Z1\$ = Z\$	30/04/81	393
17	000130	Z1% = USR (51,ZL%,Z)	05/05/81	394
18	000140	RETURN	03/04/81	395
19	000150	)	03/04/81	396
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	GFILL	000000 #GFILL	12/03/81	397
1	DIRECTIVE	000010 ?A B C D E F G H I J K L M N O P Q R S T U V W X Y	01/05/81	398
2	DIRECTIVE	000020 +IFF??A?EQUAL?LINE?SET A = Z\$	18/08/81	399
3	DIRECTIVE	000030 M GLINE?Z\$??B??C??D??E??F??G??H??I??J??K??L??M??N??O??P??	18/08/81	400
4	DIRECTIVE	000040 " ??R??S??T??U??V??W??X??Y	18/08/81	401
5	DIRECTIVE	000050 + UNSET B	01/05/81	402
6	DIRECTIVE	000060 + UNSET C	01/05/81	403
7	DIRECTIVE	000070 + SET D = 63	01/05/81	404
8	DIRECTIVE	000080 + SET E = ZH%	05/05/81	405
9	DIRECTIVE	000090 +FI	01/05/81	406
10	DIRECTIVE	000100 +SET F = 0	01/05/81	407
11	DIRECTIVE	000110 +IF??B?EQUAL??SET F = 1	18/08/81	408
12	DIRECTIVE	000120 +IF??C?EQUAL??SET F = 1	18/08/81	409
13	DIRECTIVE	000130 +COMPUTE 2 = ?1 + ?0 + 6	22/04/81	410
14	DIRECTIVE	000140 +IFF??A?EQUAL??IF??B?EQUAL??IF??C?EQUAL??IF??D?EQUAL??	18/08/81	411
15	DIRECTIVE	000150 Z1% = USR(?2,ZL%)	05/05/81	412
16	DIRECTIVE	000160 +EXIT	23/03/81	413
17	DIRECTIVE	000170 +FI	18/03/81	414
18	DIRECTIVE	000180 +COMPUTE 2 = ?1 + ?0 + 10	22/04/81	415
19	DIRECTIVE	000190 +DFT D = 0	18/03/81	416
20	DIRECTIVE	000200 +IFF??D?NUMERIC?	18/08/81	417
21	DIRECTIVE	000210 + IF??D?GREATER?63?SET D = 63	18/08/81	418
22	DIRECTIVE	000220 + IF??D?EQUAL?0?SET D = ZL%	18/08/81	419
23	DIRECTIVE	000230 ZD%=?D	22/04/81	420
24	DIRECTIVE	000240 +ELSE	01/04/81	421
25	DIRECTIVE	000250 ZD%=ABS(?D)	22/04/81	422
26	DIRECTIVE	000260 +FI	01/04/81	423
27	DIRECTIVE	000270 +DFT A = 0	22/04/81	424
28	DIRECTIVE	000280 +IFF??A?EQUAL?LDB?SET A =	18/08/81	425
29	DIRECTIVE	000290 +ELSE	30/04/81	426
30	DIRECTIVE	000300 + IFF??A?NOT?EQUAL?0?	18/08/81	427
31	DIRECTIVE	000310 Z=PTR(?A):IFZ>ZH%THENZ=Z~ZH%	05/05/81	428
32	DIRECTIVE	000320 + SET A = Z	30/04/81	429
33	DIRECTIVE	000330 + FI	30/04/81	430
34	DIRECTIVE	000340 +FI	12/03/81	431
35	DIRECTIVE	000350 +IF??A?EQUAL?0?SET A = ZL%	18/08/81	432
36	DIRECTIVE	000360 Z1% = ZL%	05/05/81	433
37	DIRECTIVE	000370 +DFT B = 0	22/04/81	434
38	DIRECTIVE	000380 +IFF??B?NOT?NUMERIC?	18/08/81	435
39	DIRECTIVE	000390 IF (?B) < 0 THEN Z1% = 1%	22/04/81	436
40	DIRECTIVE	000400 + SET B = ABS(?B)	22/04/81	437
41	DIRECTIVE	000410 +FI	23/03/81	438
42	DIRECTIVE	000420 +IF??B?EQUAL?0?SET B = ZL%	18/08/81	439
43	DIRECTIVE	000430 +DFT C = 0	30/04/81	440
44	DIRECTIVE	000440 +IFF??C?NOT?NUMERIC?	18/08/81	441
45	DIRECTIVE	000450 IF (?C) < ZL% THEN Z1% = Z1% + ZN%	05/05/81	442
46	DIRECTIVE	000460 + SET C = ABS(?C)	30/04/81	443
47	DIRECTIVE	000470 +FI	23/03/81	444
48	DIRECTIVE	000480 +IF??C?EQUAL?0?SET C = ZL%	18/08/81	445
49	DIRECTIVE	000490 +SET C = + ?C	04/05/81	446
50	DIRECTIVE	000500 +DFT E = ZH%	05/05/81	447
51	DIRECTIVE	000510 +SET C = (?E) * ZP% ?C	05/05/81	448
52	DIRECTIVE	000520 +IF??F?EQUAL?1?SET C = (?C)ORNOTZH%	18/08/81	449
53	DIRECTIVE	000530 Z8% = USR(?2,?A,CVT\$(CHR\$(?B)+CHR\$(ZD%*4+Z1%)),?C)	22/06/81	450

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPONSY

MACRO: GLINE

DATE: 24/09/81

TIME: 10:50

PAGE: 20

GLINE	000000 #GLINE	13/05/81	451
000010	?A B C D E F G H I J K L M N O P Q R S T U V W X Y	13/05/81	452
000020	+DFT A = 2\$	13/05/81	453
000030	+UNSET Z	13/05/81	454
000040	+UNSET 6	13/05/81	455
000050	+IFF??B?NOT?EQUAL??IF??C?NOT?EQUAL??IF??D?NOT?EQUAL??	18/08/81	456
000060	-IF??E?NOT?EQUAL??	18/08/81	457
000070	+ELSE?WARNING?NO LINE DEFINED	18/08/81	458
000080	+ EXIT	13/05/81	459
000090	+FI	13/05/81	460
000100	+IF??B?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	461
000110	+IF??B?GREATER?203?SET B = 203	18/08/81	462
000120	+SET Z = ??B,	13/05/81	463
000130	+IF??C?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	464
000140	+IF??C?GREATER?32767?SET C = 0	18/08/81	465
000150	+SET Z = ??C,	13/05/81	466
000160	+IF??D?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	467
000170	+IF??D?GREATER?203?SET D = 203	18/08/81	468
000180	+SET Z = ??D,	13/05/81	469
000190	+IF??E?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	470
000200	+IF??E?GREATER?32767?SET E = 0	18/08/81	471
000210	+SET Z = ??E,	13/05/81	472
000220	+IF??F?EQUAL??GO TO?FINISH	18/08/81	473
000230	+IF??G?EQUAL??GO TO?FINISH	18/08/81	474
000240	+IF??F?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	475
000250	+IF??F?GREATER?203?SET F = 203	18/08/81	476
000260	+SET Z = ??F,	13/05/81	477
000270	+IF??G?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	478
000280	+IF??G?GREATER?32767?SET G = 0	18/08/81	479
000290	+SET Z = ??G,	13/05/81	480
000300	+IF??H?EQUAL??GO TO?FINISH	18/08/81	481
000310	+IF??I?EQUAL??GO TO?FINISH	18/08/81	482
000320	+IF??H?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	483
000330	+IF??H?GREATER?203?SET H = 203	18/08/81	484
000340	+SET Z = ??H,	13/05/81	485
000350	+IF??I?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	486
000360	+IF??I?GREATER?32767?SET I = 0	18/08/81	487
000370	+SET Z = ??I,	13/05/81	488
000380	+IF??J?EQUAL??GO TO?FINISH	18/08/81	489
000390	+IF??K?EQUAL??GO TO?FINISH	18/08/81	490
000400	+IF??J?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	491
000410	+IF??J?GREATER?203?SET J = 203	18/08/81	492
000420	+SET Z = ??J,	13/05/81	493
000430	+IF??K?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	494
000440	+IF??K?GREATER?32767?SET K = 0	18/08/81	495
000450	+SET Z = ??K,	13/05/81	496
000460	+IF??L?EQUAL??GO TO?FINISH	18/08/81	497
000470	+IF??M?EQUAL??GO TO?FINISH	18/08/81	498
000480	+IF??L?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	499
000490	+IF??L?GREATER?203?SET L = 203	18/08/81	500
000500	+SET Z = ??L,	13/05/81	501
000510	+IF??M?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	502
000520	+IF??M?GREATER?32767?SET M = 0	18/08/81	503
000530	+SET Z = ??M,	13/05/81	504
000540	+IF??N?EQUAL??GO TO?FINISH	18/08/81	505
000550	+IF??O?EQUAL??GO TO?FINISH	18/08/81	506

DIRECTIVE	000560 +IF??N?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	507
DIRECTIVE	000570 +IF??N?GREATER?203?SET N = 203	18/08/81	508
DIRECTIVE	000580 +SET 6 = ?6?N,	13/05/81	509
DIRECTIVE	000590 +IF??O?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	510
DIRECTIVE	000600 +IF??O?GREATER?32767?SET O = 0	18/08/81	511
DIRECTIVE	000610 +SET 6 = ?6?O,	13/05/81	512
DIRECTIVE	000620 +IF??P?EQUAL??GO TO?FINISH	18/08/81	513
DIRECTIVE	000630 +IF??Q?EQUAL??GO TO?FINISH	18/08/81	514
DIRECTIVE	000640 +IF??P?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	515
DIRECTIVE	000650 +IF??P?GREATER?203?SET P = 203	18/08/81	516
DIRECTIVE	000660 +SET 6 = ?6?P,	13/05/81	517
DIRECTIVE	000670 +IF??Q?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	518
DIRECTIVE	000680 +IF??Q?GREATER?32767?SET Q = 0	18/08/81	519
DIRECTIVE	000690 +SET 6 = ?6?Q,	13/05/81	520
DIRECTIVE	000700 +IF??R?EQUAL??GO TO?FINISH	18/08/81	521
DIRECTIVE	000710 +IF??S?EQUAL??GO TO?FINISH	18/08/81	522
DIRECTIVE	000720 +IF??R?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	523
DIRECTIVE	000730 +IF??R?GREATER?203?SET R = 203	18/08/81	524
DIRECTIVE	000740 +SET 6 = ?6?R,	13/05/81	525
DIRECTIVE	000750 +IF??S?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	526
DIRECTIVE	000760 +IF??S?GREATER?32767?SET S = 0	18/08/81	527
DIRECTIVE	000770 +SET 6 = ?6?S,	13/05/81	528
DIRECTIVE	000780 +IF??T?EQUAL??GO TO?FINISH	18/08/81	529
DIRECTIVE	000790 +IF??U?EQUAL??GO TO?FINISH	18/08/81	530
DIRECTIVE	000800 +IF??T?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	531
DIRECTIVE	000810 +IF??T?GREATER?203?SET T = 203	18/08/81	532
DIRECTIVE	000820 +SET 6 = ?6?T,	13/05/81	533
DIRECTIVE	000830 +IF??U?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	534
DIRECTIVE	000840 +IF??U?GREATER?32767?SET U = 0	18/08/81	535
DIRECTIVE	000850 +SET 6 = ?6?U,	13/05/81	536
DIRECTIVE	000860 +IF??V?EQUAL??GO TO?FINISH	18/08/81	537
DIRECTIVE	000870 +IF??W?EQUAL??GO TO?FINISH	18/08/81	538
DIRECTIVE	000880 +IF??V?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	539
DIRECTIVE	000890 +IF??V?GREATER?203?SET V = 203	18/08/81	540
DIRECTIVE	000900 +SET 6 = ?6?V,	13/05/81	541
DIRECTIVE	000910 +IF??W?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	542
DIRECTIVE	000920 +IF??W?GREATER?32767?SET W = 0	18/08/81	543
DIRECTIVE	000930 +SET 6 = ?6?W,	13/05/81	544
DIRECTIVE	000940 +IF??X?EQUAL??GO TO?FINISH	18/08/81	545
DIRECTIVE	000950 +IF??Y?EQUAL??GO TO?FINISH	18/08/81	546
DIRECTIVE	000960 +IF??X?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	547
DIRECTIVE	000970 +IF??X?GREATER?203?SET X = 203,	18/08/81	548
DIRECTIVE	000980 +SET 6 = ?6?X,	13/05/81	549
DIRECTIVE	000990 +IF??Y?NOT?NUMERIC?GO TO?NOTNUM	18/08/81	550
DIRECTIVE	001000 +IF??Y?GREATER?32767?SET Y = 0	18/08/81	551
DIRECTIVE	001010 +SET 6 = ?6?Y,	13/05/81	552
LABEL	001020 ++FINISH	13/05/81	553
DIRECTIVE	001030 +DFT 6 =	13/05/81	554
	001040 (	13/05/81	555
	001050 P DATA	13/05/81	556
	001060 GLINE?#	13/05/81	557
	001070 DATA?Z?6-1X	13/05/81	558
	001080 )	13/05/81	559
	001090 RESTORE #GLINE??:GOSUB #UNPACK: ?A=LEFT\$(Z1\$,2%)	13/05/81	560
DIRECTIVE	001100 +CEXIT	13/05/81	561
DIRECTIVE	001110 +GO TO?CEXIT	18/08/81	562
LABEL	001120 +NOTNUM	13/05/81	563

001130	?A = CHR\$(?B) + CVT\$(?C)	13/05/81	564
001140	+ CHR\$(?D) + CVT\$(?E)	13/05/81	565
001150	+ CHR\$(?F) + CVT\$(?G)	13/05/81	566
001160	+ CHR\$(?H) + CVT\$(?I)	13/05/81	567
5 DIRECTIVE	+IF??J?EQUAL??CEXIT	18/08/81	568
6 001170	?A = ?A + CHR\$(?J) + CVT\$(?K)	13/05/81	569
7	+ CHR\$(?L) + CVT\$(?M)	13/05/81	570
8 001190	+ CHR\$(?N) + CVT\$(?O)	13/05/81	571
9 001200	+ CHR\$(?P) + CVT\$(?Q)	13/05/81	572
10 001210	+ CHR\$(?R) + CVT\$(?S)	18/08/81	573
11 001220	+IF??R?EQUAL??CEXIT	13/05/81	574
12 001230	?A = ?A + CHR\$(?T) + CVT\$(?U)	13/05/81	575
13 001240	+ CHR\$(?V) + CVT\$(?W)	13/05/81	576
14 001250	+ CHR\$(?X) + CVT\$(?Y)	13/05/81	577
15 001260	+CEXIT	13/05/81	578
16 001270	++CEXIT	13/05/81	579
17 001280	(	13/05/81	580
18 001290	P SUB	13/05/81	581
19 001300	UNPACK	13/05/81	582
20 001310	M STRING,Z1\$,36	13/05/81	583
21 001320	Z%ZL%IZ=DPEEK(PTR(Z1\$))	13/05/81	584
22 001330	UNPACK1	13/05/81	585
23 001340	READZ1%	13/05/81	586
24 001350	IFZ1%ZK% THEN RETURNX	13/05/81	587
25 001360	POKE Z+Z%,Z1%	13/05/81	588
26 001370	Z%Z%+1	13/05/81	589
27 001380	READZ1%	13/05/81	590
28 001390	DPUKE Z+Z%,Z1%	13/05/81	591
29 001400	Z%Z%+2	13/05/81	592
30 001410	GOTO #UNPACK1	13/05/81	593
31 001420	)	13/05/81	594
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	GMERGE	000000 #GMERGE	23/03/81	595
1	DIRECTIVE	000010 ? A B C	26/03/81	596
2	DIRECTIVE	000020 +COMPUTE 2 = ?1 + ?0 + 12	22/04/81	597
3	DIRECTIVE	000030 +IF??B?EQUAL??UNSET C	18/08/81	598
4	DIRECTIVE	000040 +DFT A = ZL%	05/05/81	599
5	DIRECTIVE	000050 +IFF??A?EQUAL?LDB?SET A =	18/08/81	600
6	DIRECTIVE	000060 +ELSE	30/04/81	601
7	DIRECTIVE	000070 + IFF??A?NOT?EQUAL?ZL%?	18/08/81	602
8	DIRECTIVE	000080 Z=PTR(?A):IFZ>ZH%THENZ=Z-ZH%	05/05/81	603
9	DIRECTIVE	000090 + SET A = Z	30/04/81	604
10	DIRECTIVE	000100 + FI	30/04/81	605
11	DIRECTIVE	000110 +FI	26/03/81	606
12	DIRECTIVE	000120 Z1% = ZL%	05/05/81	607
13	DIRECTIVE	000130 +DFT B = 0	22/04/81	608
14	DIRECTIVE	000140 +IFF??B?NOT?NUMERIC?	18/08/81	609
15	DIRECTIVE	000150 IF (?B) < ZL% THEN Z1% = ZM%	05/05/81	610
16	DIRECTIVE	000160 + SET B = ABS(?B)	22/04/81	611
17	DIRECTIVE	000170 +FI	26/03/81	612
18	DIRECTIVE	000180 +IF??B?EQUAL?0?SET B = ZL%	18/08/81	613
19	DIRECTIVE	000190 +IFF??C?NOT?NUMERIC?	18/08/81	614
20	DIRECTIVE	000200 IF (?C) < ZL% THEN Z1% = Z1%+ ZM%	05/05/81	615
21	DIRECTIVE	000210 + IF??C?NOT?EQUAL??SET C = ABS(?C)	18/08/81	616
22	DIRECTIVE	000220 +FI	26/03/81	617
23	DIRECTIVE	000230 +IF??C?NOT?EQUAL??SET C = ,?C	18/08/81	618
24	DIRECTIVE	000240 +DFT C =	22/04/81	619
25	DIRECTIVE	000250 Z1% = USR(22,?A,CVT\$%(CHR\$(?B)+CHR\$(Z1%))?C)	22/04/81	620
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REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: GMOVE

DATE: 24/09/81

TIME: 10:50

PAGE: 24

1	GMOVE	000000 # GMOVE	26/03/81	621
2				
3	DIRECTIVE	000010 ? A B C D E	26/03/81	622
4	DIRECTIVE	000020 +COMPUTE 2 = ?1 + ?0 + 8	26/03/81	623
5	DIRECTIVE	000030 +IFF??A?NOT?EQUAL??IF??D?NOT?EQUAL??IF??E?NOT?EQUAL??	18/08/81	624
6	DIRECTIVE	000040 +ELSE?ERROR?MISSING PARAMETER	18/08/81	625
7	DIRECTIVE	000050 +EXIT	22/04/81	626
8	DIRECTIVE	000060 +FI	22/04/81	627
9	DIRECTIVE	000070 +IF??B?EQUAL??UNSET C	18/08/81	628
10	DIRECTIVE	000080 +IFF??A?EQUAL?LDB?SET A =	18/08/81	629
11	DIRECTIVE	000090 +ELSE	30/04/81	630
12	DIRECTIVE	000100 Z1=PTR(?A):IFZ1>ZH%THENZ1=Z1-ZH%	05/05/81	631
13	DIRECTIVE	000110 + SET A = Z1	30/04/81	632
14	DIRECTIVE	000120 +FI	26/03/81	633
15	DIRECTIVE	000130 +DFT B = 0	22/04/81	634
16	DIRECTIVE	000140 Z1% = ZL%	05/05/81	635
17	DIRECTIVE	000150 +IFF??B?NOT?NUMERIC?	18/08/81	636
18	DIRECTIVE	000160 IF (?B) < ZL% THEN Z1% = ZM%	05/05/81	637
19	DIRECTIVE	000170 + SET B = ABS(?B)	22/04/81	638
20	DIRECTIVE	000180 +FI	26/03/81	639
21	DIRECTIVE	000190 +IF??B?EQUAL?0?SET B = ZL%	18/08/81	640
22	DIRECTIVE	000200 +IFF??C?NOT?NUMERIC?	18/08/81	641
23	DIRECTIVE	000210 IF (?C) < ZL% THEN Z1% = Z1%+ ZN%	05/05/81	642
24	DIRECTIVE	000220 + IF??C?NOT?EQUAL??SET C = ABS(?C)	18/08/81	643
25	DIRECTIVE	000230 +FI	26/03/81	644
26	DIRECTIVE	000240 + DFT C = ZK%	05/05/81	645
27	DIRECTIVE	000250 Z2% = ZL%	05/05/81	646
28	DIRECTIVE	000260 +IFF??D?NOT?NUMERIC?	18/08/81	647
29	DIRECTIVE	000270 IF (?D) < ZL% THEN Z2% = ZM%	05/05/81	648
30	DIRECTIVE	000280 + SET D = ABS(?D)	22/04/81	649
31	DIRECTIVE	000290 +FI	26/03/81	650
32	DIRECTIVE	000300 +IFF??E?NOT?NUMERIC?	18/08/81	651
33	DIRECTIVE	000310 IF (?E) < ZL% THEN Z2% = Z2%+ ZN%	05/05/81	652
34	DIRECTIVE	000320 + SET E = ABS(?E)	22/04/81	653
35	DIRECTIVE	000330 +FI	26/03/81	654
36	DIRECTIVE	000340 Z\$ = CHR\$(?B) + CHR\$(Z1%) + CVT%\$(?C) + CHR\$(?D) + CHR\$(Z2%)	26/03/81	655
37	DIRECTIVE	000350 + CVT%\$(?E)	26/03/81	656
38	DIRECTIVE	000360 Z=PTR(Z\$):IFZ>ZH%THENZ=Z-ZH%	05/05/81	657
39	DIRECTIVE	000370 Z1% = USR(??,?A,Z)	30/04/81	658

REPORT SX3CMD/2.1 ATU MACRO FILE: PP0NSY MACRO: GPOINT DATE: 24/09/81 TIME: 10:50 PAGE: 25

GPOINT	000000 # GPOINT	12/03/81	659
DIRECTIVE	000010 ?A B C	12/03/81	660
DIRECTIVE	000020 +DFT A = Z%	30/03/81	661
DIRECTIVE	000030 +COMPUTE 2 = ?1 + ?0 + 4	26/03/81	662
DIRECTIVE	000040 ?A = USR (?2, ?B, ?C)	30/03/81	663
DIRECTIVE	000050 +IFF??B?NOT?EQUAL??IF??C?NOT?EQUAL??	18/08/81	664
DIRECTIVE	000060 +ELSE	09/04/81	665
DIRECTIVE	000070 ?A=ZL%	05/05/81	666
DIRECTIVE	000080 +FI	09/04/81	667

GPRINT	000000 # GPRINT		12/03/81	668	X
DIRECTIVE	000010 ?A B C D E F G H I J K L M N O P Q R S T U V W X Y		22/05/81	669	
DIRECTIVE	000020 +IFF??A?EQUAL?LINE?		18/08/81	670	
DIRECTIVE	000030 + SET A = Z\$		01/04/81	671	X
DIRECTIVE	000040 M GLINE?Z\$??B??C??D??E??F??G??H??I??J??K??L??M??N??O??P??Q??R??S		18/08/81	672	
DIRECTIVE	000050 -?T??U??V??W??X??Y??		18/08/81	673	X
DIRECTIVE	000060 +UNSET D		31/03/81	674	
DIRECTIVE	000070 +FI		31/03/81	675	X
DIRECTIVE	000080 +IFF,?D,NOT,EQUAL,		05/05/81	676	
DIRECTIVE	000090 M GPRINT1,?A,?B,?C,?D,?E		21/05/81	677	
DIRECTIVE	000100 + IFF??A?EQUAL??		18/08/81	678	X
DIRECTIVE	000110 IF Z\$ = "" GOTO #GPRINTEND?#X		28/04/81	679	
DIRECTIVE	000120 + IF ??E?EQUAL?NO?EXIT		18/08/81	680	
DIRECTIVE	000130 + ELSE		22/04/81	681	
DIRECTIVE	000140 ?A=""		22/04/81	682	
DIRECTIVE	000150 Z\$=PTR(?A)		30/04/81	683	
DIRECTIVE	000160 Z\$=PTR(Z\$)		30/04/81	684	
DIRECTIVE	000170 DPOKE Z,DPEEK(Z1)+DPOKE Z+ZN%,DPEEK(Z1+ZN%)		05/05/81	685	
DIRECTIVE	000180 DPOKE Z,ZL%+DPOKE Z+ZN%,ZL%		05/05/81	686	
DIRECTIVE	000190 + FI		22/04/81	687	
DIRECTIVE	000200 +FI		22/04/81	688	
DIRECTIVE	000210 +IF??B?EQUAL??UNSET C		18/08/81	689	
DIRECTIVE	000220 +DFT A = ZL%		05/05/81	690	
DIRECTIVE	000230 +IFF??A?EQUAL?LDB?SET A = ZK%		18/08/81	691	
DIRECTIVE	000240 +ELSE		30/04/81	692	
DIRECTIVE	000250 + IFF/?A?NOT?EQUAL/ZL%?		18/08/81	693	
DIRECTIVE	000260 + SET A = PTR(?A)		06/05/81	694	
DIRECTIVE	000270 + FI		30/04/81	695	
DIRECTIVE	000280 +FI		22/04/81	696	
DIRECTIVE	000290 +DFT B = ZL%		06/05/81	697	
DIRECTIVE	000300 +DFT C = ZH%		06/05/81	698	
DIRECTIVE	000310 Z=?A:Z1%=?B:Z2%=?C		06/05/81	699	
DIRECTIVE	000320 +IFF??3?EQUAL?WIPE?UNSET 3		18/08/81	700	
DIRECTIVE	000330 Z3%=?M%		06/05/81	701	
DIRECTIVE	000340 +ELSE		06/05/81	702	
DIRECTIVE	000350 Z3%=?L%		06/05/81	703	
DIRECTIVE	000360 +FI		06/05/81	704	
DIRECTIVE	000370 GOSUB #GPRINT		06/05/81	705	
DIRECTIVE	000380 GPRINTEND?#		06/05/81	706	
DIRECTIVE	000390 +CEXIT		06/05/81	707	
DIRECTIVE	000400 (		06/05/81	708	
DIRECTIVE	000410 P. SUB.		06/05/81	709	
DIRECTIVE	000420 GPRINT		06/05/81	710	
DIRECTIVE	000430 Z4%=?L%:IF Z1%<L%THEN Z4%=?M%:Z1%=?ABS(Z1%)X		06/05/81	711	
DIRECTIVE	000440 IF Z2%=?H%THEN Z2%=?K%ELSE IF Z2%<Z1%THEN Z4%=?4%+ZN%		06/05/81	712	
DIRECTIVE	000450 :Z2%=?ABS(Z2%)X		06/05/81	713	
DIRECTIVE	000460 IF Z3%=?M%THEN Z4%=?4%DOR4)X		06/05/81	714	
DIRECTIVE	000470 IF Z>ZH%THEN Z=Z-ZH%		06/05/81	715	
DIRECTIVE	000480 +COMPUTE Z = ?1 + ?0 + 6		06/05/81	716	
DIRECTIVE	000490 Z=?USR(2,Z,CVT\$(CHR\$(Z1%)+CHR\$(Z4%)),Z2%)		19/05/81	717	
DIRECTIVE	000500 RETURN		06/05/81	718	
DIRECTIVE	000510 )		06/05/81	719	

M PRINT

GPRINT1	000000 # GPRINT1	15/04/81	720
	000010 ? A B C D E	21/05/81	721
	000020 ** THIS IS CALLED FROM GPRINT FOR READING A FILE	15/04/81	722
	000030 ** ?A = STRING: ?B = ROW: ?C = COL: ?D = FILENAME: ?E = NO	21/05/81	723
DIRECTIVE	000040 +DFT B = 999	21/05/81	724
DIRECTIVE	000050 +DFT C = 999	21/05/81	725
DIRECTIVE	000060 +IFF??A?EQUAL??	18/08/81	726
	000070 Z8%=0	21/05/81	727
DIRECTIVE	000080 +ELSE	21/05/81	728
	000090 Z8%=1	21/05/81	729
DIRECTIVE	000100 +FI	21/05/81	730
DIRECTIVE	000110 +IFF??E?EQUAL?NO?	18/08/81	731
	000120 Z7%=1	21/05/81	732
DIRECTIVE	000130 +ELSE	21/05/81	733
	000140 Z7%=0	22/05/81	734
DIRECTIVE	000150 +FI	21/05/81	735
	000160 Z5%=?B:Z6%=?C:ZF\$=?D:GOSUB #GPRINT1	25/05/81	736
DIRECTIVE	000170 +CEXIT 999 999 Please	21/05/81	737
	000180 (	21/05/81	738
	000190 P SUB	21/05/81	739
	000200 GPRINT1	21/05/81	740
	OPEN OLD ZF\$ AS 12	21/05/81	741
	GET #12	21/05/81	742
	FIELD #12, 252 AS Z1\$	21/05/81	743
	** PUT TOTAL STRING LENGTH IN ZA%	21/05/81	744
	ZA% = CVT\$(LEFT\$(Z1\$, ZN%))	21/05/81	745
	** STRIP THE FIRST 2 CHARS OFF	21/05/81	746
	Z\$ = MIDS(Z1\$, 7)	24/05/81	747
	** CALCULATE NO OF RECS LESS 1 AND PUT IN ZB%	21/05/81	748
	ZB% = (ZA%+1)/252	21/05/81	749
	** THROW OUT NON SCREEN DUMPS, AND THOSE TO BE PUT	21/05/81	750
	IN STRINGS	21/05/81	751
	IF ((ASC(MIDS(Z1\$, 4, ZM%)) AND 24) >> 16 OR Z7% = 1 OR Z8% = 1	24/05/81	752
	THEN #GPRINT2X	21/05/81	753
	** PUT THE HEADER IN Z2\$ AND REST IN BACK IN Z\$	21/05/81	754
	Z2\$ = MIDS(Z1\$, 3, 4)	24/05/81	755
	** GET THE BLOCK SIZE IN ZF%	21/05/81	756
	ZF% = ASC(RIGHT\$(Z2\$, ZM%))	23/05/81	757
	** GET DEFAULT ROW AND COLUMN	21/05/81	758
	IF Z5% = 999 THEN Z5% = ASC(LEFT\$(Z2\$, ZM%)) X	21/05/81	759
	IF Z6% = 999 THEN Z6% = ASC(MIDS(Z2\$, 3, ZM%)) ELSE Z6% = INT(Z6%/6)*6 X	26/05/81	760
	IF ZB% = 0 THEN #GPRINT1AX	22/05/81	761
	** PRINT BLOCKS AND GET REST OF THE FILE	21/05/81	762
	FOR ZD% = ZM% TO ZB%	21/05/81	763
	** CALC NO OF BLOCKS IN Z\$	21/05/81	764
	ZC% = LEN(Z\$)/ZF%	21/05/81	765
	** PUT DISCRETE NO OF BLOCKS IN Z\$ AND REST IN Z3\$	21/05/81	766
	Z0% = ZC%*ZF%	21/05/81	767
	Z3\$ = MIDS(Z\$, Z0%+1)	21/05/81	768
	** ALSO ADD HEADER TO Z\$	21/05/81	769
	Z4\$ = LEFT\$(Z\$, Z0%)	24/05/81	770
	Z\$ = Z2\$ + Z4\$	24/05/81	771
	** GPRINT Z\$ TO SCREEN	21/05/81	772
	M GPRINT, Z\$, Z5%, Z6%	21/05/81	773
	** CALCULATE POSITION OF FIRST LINE OF NEXT BLOCK	21/05/81	774
	Z5% = Z5% + ZC%	21/05/81	775

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: GPRINT1

DATE: 24/09/81

TIME: 10:50

PAGE: 28

000560	GET #12	21/05/81	776
000570	** ADD LEFTOVER ONTO NEW RECORD	21/05/81	777
000580	Z\$=Z3\$+Z1\$	21/05/81	778
000590	NEXT ZD%	21/05/81	779
000600	** PRINT LAST RECORD	21/05/81	780
000610	GPRINT1A	22/05/81	781
000620	Z4\$=Z\$	24/05/81	782
000630	Z\$=Z2\$+Z4\$	24/05/81	783
000640 M	GPRINT,Z\$,Z5%,Z6%	21/05/81	784
000650	Z\$="";Z4\$="";CLOSE12:RETURN	24/05/81	785
000660	GPRINT2	21/05/81	786
000670	FOR ZD% = ZM% TO ZB%	21/05/81	787
000680	GET #12	21/05/81	788
000690	Z\$=Z\$+Z1\$	21/05/81	789
000700	NEXT ZD%	21/05/81	790
000710	CLOSE 12	22/04/81	791
000720	RETURN	15/04/81	792
000730 )		15/04/81	793

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: GRESET

DATE: 24/09/81

TIME: 10:50

PAGE: 29

	GRESET	000000 #GRESET	27/03/81	794
	DIRECTIVE	000010 ? A B	27/03/81	795
		000020 +COMPUTE Z = ?1 + ?0 + 2	27/03/81	796
		000030 Z1% = USR(?2,?A,?B,ZL%)	05/05/81	797

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: GSAVE

DATE: 24/09/81

TIME: 10:50

PAGE: 30

GSAVE	000000 #GSAVE	07/09/81	798
DIRECTIVE	000010 ? A B C D E F	07/09/81	799
DIRECTIVE	000020 +DFT B = 0	07/09/81	800
DIRECTIVE	000030 +DFT C = 0	07/09/81	801
DIRECTIVE	000040 +DFT D = 203	07/09/81	802
DIRECTIVE	000050 +DFT E = 39	07/09/81	803
DIRECTIVE	000060 +IFF\$?F\$EQUAL\$SIFS?A\$EQUAL\$ERROR\$NO FILE OR STRING	07/09/81	804
DIRECTIVE	000070 +CEXIT	07/09/81	805
DIRECTIVE	000080 +GOTO #CEXIT	07/09/81	806
DIRECTIVE	000090 +FI	07/09/81	807
DIRECTIVE	000100 +IFF,?F,EQUAL,,	07/09/81	808
DIRECTIVE	000110 Z7%#1	07/09/81	809
DIRECTIVE	000120 +ELSE+UNSET A	07/09/81	810
DIRECTIVE	000130 Z7%#0	07/09/81	811
DIRECTIVE	000140 +FI	07/09/81	812
DIRECTIVE	000150 Z1%=?B:Z2%=?C:Z3%=?D:Z4%=?E	07/09/81	813
DIRECTIVE	000160 ZF\$=?F	07/09/81	814
DIRECTIVE	000170 GOSUB #GSAVE	07/09/81	815
DIRECTIVE	000180 +IFF,?A,NOT,EQUAL,,	07/09/81	816
DIRECTIVE	000190 ?A=Z\$:DPOKEZ,0:DPOKEZ+2,0	07/09/81	817
DIRECTIVE	000200 +FI	07/09/81	818
DIRECTIVE	000210 +CEXIT	07/09/81	819
LABEL	000220 ++CEXIT	07/09/81	820
	000230 (	07/09/81	821
	000240 P SUB	07/09/81	822
	000250 GSAVE	07/09/81	823
	000260 Z1 = (Z3% - Z1% + ZM%) * (Z4% - Z2% + ZM%) + 6	07/09/81	824
	000270 IFFRE(0)<Z1+320THEN PRINT"INSUFFICIENT MEMORY":RETURNx	07/09/81	825
	000280 Z\$ = SPC(Z1)	07/09/81	826
DIRECTIVE	000290 GSAVE1	07/09/81	827
DIRECTIVE	000300 +COMPUTE Z = ?1 + ?0 + 18	07/09/81	828
DIRECTIVE	000310 **FOOL GRAPHIC ROUTINE INTO THINKING THAT THE STRING IS ACTUALLY	07/09/81	829
DIRECTIVE	000320 **2 BYTES FURTHER ON THAN IT REALLY IS	07/09/81	830
DIRECTIVE	000330 Z=PTR(Z\$):DPOKE Z,DPEEK(Z)+2	07/09/81	831
DIRECTIVE	000340 **	07/09/81	832
DIRECTIVE	000350 Z9% = USR(?2,Z, CVT\$(CHR\$(Z1%)+CHR\$(Z2%))	07/09/81	833
DIRECTIVE	000360 ~ ,CVT\$(CHR\$(Z3%)+CHR\$(Z4%)))	07/09/81	834
DIRECTIVE	000370 **RESTORE THE STRING POINTER AFTER FIDDLE	07/09/81	835
DIRECTIVE	000380 DPOKE Z,DPEEK(Z)-2	07/09/81	836
DIRECTIVE	000390 **ATTACH LENGTH OF STRING AS FIRST 2 BYTES OF THE STRING	07/09/81	837
DIRECTIVE	000400 DPOKE DPEEK(Z),Z1	07/09/81	838
DIRECTIVE	000410 **	07/09/81	839
DIRECTIVE	000420 OPEN NEW ZF\$ AS 12	07/09/81	840
DIRECTIVE	000430 PRINT #12, Z\$;	07/09/81	841
DIRECTIVE	000440 CLOSE 12	07/09/81	842
DIRECTIVE	000450 Z\$ = ""	07/09/81	843
DIRECTIVE	000460 RETURN	07/09/81	844
DIRECTIVE	000470 )	07/09/81	845

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REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: GSECTOR

DATE: 24/09/81

TIME: 10:50

PAGE: 31

GSECTOR	000000 # GSECTOR	07/09/81	846
	000010 ? A B C D E F	07/09/81	847
DIRECTIVE	000020 Z1%=?B:Z2%=?C:Z3%=?D:Z=?E:Z1=?F:GOSUB #GSECTOR! ?A=Z\$:Z\$=""	07/09/81	848
	000030 +CEXIT	07/09/81	849
	000040 (	07/09/81	850
	000050 P SUB	07/09/81	851
	000060 GSECTOR	07/09/81	852
	000070 Z2 = PI * ZN% + Z3 = 0.4268	07/09/81	853
	000080 Z4% = Z1%	07/09/81	854
	000090 Z1\$ = "L" : Z2\$ = "R"	07/09/81	855
	000100 Z4=Z2*Z1	07/09/81	856
	000110 Z5=Z2*Z	07/09/81	857
	000120 Z4=Z4+Z*Z2	07/09/81	858
	000130 Z6=Z4/Z3%	07/09/81	859
	000140 Z8=CHR\$(Z1%)+CVT%\$(Z2%)	07/09/81	860
	000150 FOR Z7 = Z5 TO Z4 STEP Z6	07/09/81	861
	000160 Z5%=(Z3%*Z3+Z3%)*COS(Z7)+Z1%	07/09/81	862
	000170 Z6% = Z3%*SIN(Z7)+Z2%	07/09/81	863
	000180 GOSUB #GSECTOR1x	07/09/81	864
	000190 NEXT Z7	07/09/81	865
	000200 IF Z1=ZH% THEN Z5%=(Z3%*Z3+Z3%)*COS(Z5)+Z1%:Z6% = Z3%*SIN(Z5)+Z2%:	07/09/81	866
	000210 GOSUB #GSECTOR1x	07/09/81	867
	000220 Z5% = Z1%:Z6% = Z2%:GOSUB #GSECTOR1	07/09/81	868
	000230 RETURN	07/09/81	869
	000240 GSECTOR1	07/09/81	870
	000250 IF Z5% = Z4% THEN #GSECTOR2x	07/09/81	871
	000260 IF Z1\$="R" AND Z5% < Z4% THEN SWAP Z1\$,Z2\$ x	07/09/81	872
	000270 IF Z1\$="L" AND Z5% > Z4% THEN SWAP Z1\$,Z2\$ x	07/09/81	873
	000280 Z4% = Z5%	07/09/81	874
	000290 IF Z1\$="L" THEN Z6% = Z6% + 8192 x	07/09/81	875
	000300 IF Z1\$="R" THEN Z6% = Z6% + 16384 x	07/09/81	876
	000310 GSECTOR2	07/09/81	877
	000320 Z8=Z8+CHR\$(Z5%)+CVT%\$(Z6%)	07/09/81	878
	000330 RETURN	07/09/81	879
	000340 )	07/09/81	880

REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: GSET DATE: 24/09/81 TIME: 10:50 PAGE: 32

	GSET	000000 #	GSET	12/03/81	881
DIRECTIVE	000010 ?	A B		12/03/81	882
	000020 +COMPUTE	Z = ?1 +?0 +2		27/03/81	883
	000030 Z1% = USR	(?2,?A,?B)		30/03/81	884

Write code

Write results

REPORT SX3CMD/2.1 ATU MACRO FILE: PP0MSY MACRO: GSWAP DATE: 24/09/81 TIME: 10:50 PAGE: 33

	GSWAP	000000 # GSWAP	12/03/81	885
1	DIRECTIVE	000010 ?A B C	12/03/81	886
2	DIRECTIVE	000020 +IF??B?EQUAL??UNSET C	18/08/81	887
3	DIRECTIVE	000030 +COMPUTE 2 = ?1 + ?0 + 14	26/03/81	888
4	DIRECTIVE	000040 +IF??B?EQUAL??UNSET C	18/08/81	889
5	DIRECTIVE	000050 +DFT A = ZL%	05/05/81	890
6	DIRECTIVE	000060 +IFF??A?EQUAL?LDB?SET A =	18/08/81	891
7	DIRECTIVE	000070 +ELSE	30/04/81	892
8	DIRECTIVE	000080 + IFF??A?NOT?EQUAL?ZL%?	18/08/81	893
9		Z=PTR(?A):IFZ>ZH%THENZ=Z-ZH%	05/05/81	894
10	DIRECTIVE	000100 + SET A = Z	30/04/81	895
11	DIRECTIVE	000110 + FI	30/04/81	896
12	DIRECTIVE	000120 +FI	22/04/81	897
13		Z1%=ZL%	05/05/81	898
14	DIRECTIVE	000140 +DFT B = 0	22/04/81	899
15	DIRECTIVE	000150 +IFF??B?NOT?NUMERIC?	18/08/81	900
16		IF (?B) < ZL% THEN Z1% = ZN%	05/05/81	901
17	DIRECTIVE	000170 + SET B = ABS(?B)	22/04/81	902
18	DIRECTIVE	000180 +FI	22/04/81	903
19	DIRECTIVE	000190 +IF??B?EQUAL?0?SET B = ZL%	18/08/81	904
20	DIRECTIVE	000200 +IFF??C?NOT?NUMERIC?	18/08/81	905
21		IF (?C) < ZL% THEN Z1% = Z1%+ZN%	05/05/81	906
22	DIRECTIVE	000220 + IF??C?NOT?EQUAL??SET C = ABS(?C)	18/08/81	907
23	DIRECTIVE	000230 +FI	22/04/81	908
24	DIRECTIVE	000240 +IF??C?NOT?EQUAL??SET C = ,?C	18/08/81	909
25	DIRECTIVE	000250 +DFT C =	22/04/81	910
26		Z1% = USR(?2,?A,CVT\$(CHR\$(?B)+CHR\$(Z1%))?C)	22/04/81	911
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REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0MSY

MACRO: GWIPE

DATE: 24/09/81

TIME: 10:50

PAGE: 34

GWipe 000000 #GWIPE

01/04/81 912

DIRECTIVE 000010 ? A B C D E F G H I J K L M N O P Q R S T U V W X Y

01/04/81 913

000020 +SET 3 = GWIPE

01/04/81 914

000030 M GPRINT??A??B??C??D??E??F??G??H??I??J??K??L??M??N??O??P??Q

18/08/81 915

000040 ??R??S??T??U??V??W??X??Y?

18/08/81 916

REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: INDIGIT DATE: 24/09/81 TIME: 10:50 PAGE: 35

INDIGIT	000000 #INDIGIT	08/09/81	917
DIRECTIVE	000010 ?A B C D E	08/09/81	918
	000020 +DFT E = ZL%	08/09/81	919
	000030 Z3%=?C:Z4%=?D:Z6%=?B:Z5%=?E:00SUB#INPUTD:#A=Z1\$#Z=VAL(Z1\$)	08/09/81	920
DIRECTIVE	000040 +CEXIT	08/09/81	921
	000050 (	08/09/81	922
	000060 P SUB	08/09/81	923
	000070 INPUTD	08/09/81	924
	000080 Z1\$=""#Z=ZL%:Z1%=ZL%	08/09/81	925
	000090 INPUT01	08/09/81	926
	000100 PRINT#(Z3%,Z4%+Z1%)#;Z2#=USR(1)/256	08/09/81	927
	000110 IFZ1%>ZL%ANDZ2%<8THENZ1%=Z1%-1:Z1\$=LEFT\$(Z1\$,Z1%)	08/09/81	928
	000120 ~ :PRINT "#GOTO#INPUT01	08/09/81	929
	000130 ~ ELSEIFZ2%<13THENRETURNX	08/09/81	930
	000140 ~ IFZ5%>ZM%THENGOTO#DECIMAL	08/09/81	931
	000150 ~ ELSEIFZ2%<48ORZ2%>57THEN#INPUT01x	08/09/81	932
	000160 TEST3	08/09/81	933
	000170 Z1\$=Z1\$+CHR\$(Z2%):PRINTCHR\$(Z2%)#;Z1%=Z1%+ZM%	08/09/81	934
	000180 IFZ1%>Z6%>ZM%THENRETURNELSE#INPUT01x	08/09/81	935
	000190 DECIMAL	08/09/81	936
	000200 IFZ2%<46ORZ2%>57ORZ2%>47THEN#INPUT01	08/09/81	937
	000210 ~ ELSE#TEST3x	08/09/81	938
	000220 )	08/09/81	939

REPORT SX3CMD/2.1 ATU MACRO FILE: PP0NSY MACRO: INTEXT DATE: 24/09/81 TIME: 10:50 PAGE: 36

INTEXT	000000 #INTEXT	08/09/81	940
DIRECTIVE	000010 ?A B C 0 000020 Z3%=?C:Z4%=?D:Z6%=?B:GOSUB#INPUTT:?A=Z1\$ 000030 :CEXIT 000040 C 000050 P SUB 000060 INPUTT 000070 Z1\$=""":Z1%=ZL% 000080 INPUT02 000090 PRINT\$(Z3%,Z4%+Z1%)":Z2%=USR(1)/256 000100 IFZ1%>0ANDZ2%=8THENZ1\$=Z1%-1:Z1\$=LEFT\$(Z1\$,Z1%) 000110 : PRINT"!GOTO#INPUT02x 000120 IFZ2%<13THENRETURNELSEIFZ2%<32THEN#INPUT02x 000130 Z1\$=Z1\$+CHR\$(Z2%)+PRINTCHR\$(Z2%):Z1%=Z1%+ZN% 000140 IFZ1%>Z6%=ZN%THENRETURNELSE#INPUT02x 000150 )	08/09/81	941
		08/09/81	942
		08/09/81	943
		08/09/81	944
		08/09/81	945
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LINE	LINE	FROM SOURCE FILE	12/03/81	000000	973
1	000000 #				
2					
3	000010 2A B C D E		12/03/81	000010	974
4	DIRECTIVE 000020 + DFT A = ZL%		05/05/81	000020	975
5	DIRECTIVE 000030 + DFT B = ZL%		05/05/81	000030	976
6	DIRECTIVE 000040 + DFT C = ZL%		05/05/81	000040	977
7	DIRECTIVE 000050 + DFT D = ZL%		05/05/81	000050	978
8	DIRECTIVE 000060 + DFT E = ON		28/09/81	000060	979
9	DIRECTIVE 000070 + IFF/?F/NOT/EQUAL/ON/IF/?E/NOT/EQUAL/OFF/IF/?E/NOT/EQUAL//		28/09/81	000070	980
10	DIRECTIVE 000080 + WARNING/INCORRECT PARAMETER, SET TO ON/		28/09/81	000080	981
11	DIRECTIVE 000090 + SET F = ON		28/09/81	000090	982
12	DIRECTIVE 000100 + FT		28/09/81	000100	983
13	000110 Z1 = ?A		17/03/81	000110	984
14	000120 Z2 = ?B		17/03/81	000120	985
15	000130 Z3 = ?C		17/03/81	000130	986
16	000140 Z4 = ?D		17/03/81	000140	987
17	DIRECTIVE *000150 + IFF/?F/EQUAL/OFF/		01/10/81	000150	988
18	DIRECTIVE *000160 + SET E = 0		01/10/81	000160	989
19	DIRECTIVE *000170 + ELSE		01/10/81	000170	990
20	DIRECTIVE *000180 + SET E = 1		01/10/81	000180	991
21	DIRECTIVE *000190 + FI		01/10/81	000190	992
22	*000200 Z5=?E		01/10/81	000200	993
23	000210 GOSUB #LINE		02/04/81	000210	994
24	DIRECTIVE 000220 +CEXIT		01/04/81	000220	995
25	000230 (		12/03/81	000230	996
26	000240 P SUB		26/03/81	000240	997
27	000250 LINE X		02/04/81	000250	998
28	000260 Z0%=80		22/09/81	000260	999
29	000270 IF(USR(ZJ%) AND 4096) =4096 THEN Z0%=40X		12/05/81	000270	1000
30	000280 IF(USR(ZJ%) AND 6114) =6114 THEN Z0%=160X		12/05/81	000280	1001
31	000290 Z8 = Z1 - Z3		17/03/81	000290	1002
32	000300 Z9 = Z2 - Z4		17/03/81	000300	1003
33	000310 IF Z8 = 0 THEN #LINE1X		02/04/81	000310	1004
34	000320 ZS = Z9 / Z8		17/03/81	000320	1005
35	000330 ZY = Z2		17/03/81	000330	1006
36	000340 IF Z1 > Z3 THEN Z1 = ZK% ELSE Z1=ZM% 000350 IF AUS(ZS)>ZM% THEN Z1=Z1/ARS(ZS) ELSE GOTO#ZA1 X		05/05/81	000340	1007
37	000360 IF Z2<Z4 THEN ZS=ZM% ELSE ZS=ZK% X		22/09/81	000350	1008
38	000370 GOTO#ZA2		22/09/81	000360	1009
39	000380 ZA1		22/09/81	000370	1010
40	000390 IF Z1>Z3 THEN ZS=-ZS X		22/09/81	000380	1011
41	000400 ZA2		22/09/81	000390	1012
42	000410 FOR ZX = Z1 TO Z3 STEP ZI		22/09/81	000400	1013
43	000420 IF ZX>68 THEN ZX=68 ELSE IF ZX<ZL% THEN ZX=ZL% 000430 IF ZY<ZL% THEN ZY=ZL% ELSE IF ZY>Z0% THEN ZY=Z0%		17/03/81	000410	1014
44	000440 IF Z5<>0 GOTO#ZA3 X		05/05/81	000420	1015
45	000450 M RESET?ZX?ZY?		12/05/81	000430	1016
46	000460 ZA3		28/09/81	000440	1017
47	*000470 IF Z5<>1 GOTO#ZA4 X		28/09/81	000450	1018
48	000480 M SET?ZX?ZY?		28/09/81	000460	1019
49	000490 ZA4		01/10/81	000470	1020
50	000500 ZY = ZY + ZS		18/08/81	000480	1021
51	000510 NEXT ZX		28/09/81	000490	1022
52	000520 RETURN		17/03/81	000500	1023
53	000530 LINE1 X		17/03/81	000510	1024
54	000540 IF Z2>Z4 THEN ZS=ZK% ELSE ZS=ZM% X		17/03/81	000520	1025
55	000550 FOR ZY = Z2 TO Z4 STEP ZS		02/04/81	000530	1026
56			22/09/81	000540	1027
57			17/03/81	000550	1028
58					
59					
60					

REPORT SX3CMD/2.2 REP INPUT FILE: PPONSY OUTPUT FILE: PPODSY MACRO: LINE DATE: 01/10/81 TIME: 14:44 PAGE: 5

1	000560	IF Z5<>0 GOTO#ZA5 X	28/09/ 000560 1029
2	000570 M	RESET?Z1?ZY?	28/09/81 000570 1030
3	000580	ZA5	28/09/81 000580 1031
4	*000590	IF Z5<>1 GOTO#ZA6 X	01/10/81 000590 1032
5	000600 M	SET?Z1?ZY?	18/08/81 000600 1033
6	000610	ZA6	28/09/81 000610 1034
7	000620	NEXT ZY	17/03/81 000620 1035
8	000630	RETURN	17/03/81 000630 1036
9	000640 )		12/03/81 000640 1037
10			
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REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: LOGOFF DATE: 24/09/81 TIME: 10:50 PAGE: 38

LOGOFF	000000 #	LOGOFF	23/03/81	1000
	000010	Z1% = USR(56)	12/03/81	1001

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: LPRINT

DATE: 24/09/81

TIME: 10:50

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LPRINT	000000 #	LPRINT	12/03/81	1002
DIRECTIVE	000010 ?A		12/03/81	1003
	000020 +IFF??A?EQUAL?OPEN		18/08/81	1004
	000030 Z\$=STR\$(ABS(USR(24)))		04/06/81	1005
	000040 Z\$=MID\$(Z\$,2,LEN(Z\$)-2)		04/06/81	1006
	000050 Z\$="P"+Z\$+"?PRT"		18/08/81	1007
	000060 OPEN NEW Z\$ AS 11		18/05/81	1008
DIRECTIVE	000070 +ELSE		18/05/81	1009
DIRECTIVE	000080 + IFF??A?EQUAL?CLOSE?		18/08/81	1010
	000090 CLOSE 11		18/05/81	1011
DIRECTIVE	000100 + ELSE		18/05/81	1012
	000110 PRINT #11,?A		18/05/81	1013
DIRECTIVE	000120 + FI		18/05/81	1014
DIRECTIVE	000130 +FI		18/05/81	1015

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0NSY

MACRO: MIX

DATE: 24/09/81

TIME: 10:50

PAGE: 40

	MIX	000000 # MIX	12/03/81	1016
DIRECTIVE	000010	?A	12/03/81	1017
DIRECTIVE	000020	+DFT A = PRIORITY	12/03/81	1018
DIRECTIVE	000030	+IFF??A?NOT?EQUAL?PRIORITY?IF??A?NOT?EQUAL?MIX?	18/08/81	1019
DIRECTIVE	000040	+ WARNING?INVALID VALUE FOR MIX - SET TO PRIORITY	18/08/81	1020
DIRECTIVE	000050	+ SET A = PRIORITY	12/03/81	1021
DIRECTIVE	000060	+FI	12/03/81	1022
DIRECTIVE	000070	+IFF??A?EQUAL?PRIORITY	18/08/81	1023
DIRECTIVE	000080	Z1% = USR (Z1% ≠ USR(ZJ%) AND NOT 16384)	05/05/81	1024
DIRECTIVE	000090	+ELSE	12/03/81	1025
DIRECTIVE	000100	Z1% = USR (Z1% ≠ USR(ZJ%) OR 16384)	05/05/81	1026
DIRECTIVE	000110	+FI	12/03/81	1027



REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: MOVE

DATE: 24/09/81

TIME: 10:50

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MOVE

000000 # MOVE

12/03/81 1028

000010 ?A B C

12/03/81 1029

000020 Z1% = USR (39, ?A, ?B, ?C)

17/03/81 1030

NEXT	000000 # NEXT	20/03/81	1031
	000010 ?A B C D E F G H I J K L M N O	25/03/81	1032
	000020 ** SETS UP CODE FOR GO BACK & CONTINUE USING CURSOR KEYS	27/03/81	1033
	000030 ** ?A IS THE PROCEDURE NAME TO GO BACK TO? IF NOT SPECIFIED	18/08/81	1034
	000040 ** THEN ONLY THE CONTINUE OPTION IS GIVEN?	18/08/81	1035
DIRECTIVE	000050 +DFT A = NEXT?#	09/04/81	1036
DIRECTIVE	000060 +IFF??A?EQUAL?NEXT?#?	18/08/81	1037
DIRECTIVE	000070 Z\$ = ZA\$	03/04/81	1038
DIRECTIVE	000080 +ELSE	20/03/81	1039
DIRECTIVE	000090 Z\$ = ZA\$+ZB\$	03/04/81	1040
DIRECTIVE	000100 +FI	20/03/81	1041
DIRECTIVE	000110 +IFF??B?NOT?EQUAL??	18/08/81	1042
DIRECTIVE	000120 Z2% = ZN%	18/05/81	1043
DIRECTIVE	000130 +ELSE	18/05/81	1044
DIRECTIVE	000140 + IFF??A?EQUAL?NEXT?#?	18/08/81	1045
DIRECTIVE	000150 Z2% = ZL%	18/05/81	1046
DIRECTIVE	000160 + ELSE	18/05/81	1047
DIRECTIVE	000170 Z2% = ZM%	18/05/81	1048
DIRECTIVE	000180 + FI	19/05/81	1049
DIRECTIVE	000190 +FI	18/05/81	1050
	000200 GOSUB #NEXT	01/05/81	1051
DIRECTIVE	000210 +IF??B?EQUAL??IF??A?EQUAL?NEXT?#?GO TO?NEXT3	18/08/81	1052
DIRECTIVE	000220 +IF??B?EQUAL??GO TO?NEXT2	18/08/81	1053
DIRECTIVE	000230 ?A=NEXT?#	01/05/81	1054
DIRECTIVE	000240 +IFF??B?EQUAL?SUB?	18/08/81	1055
DIRECTIVE	000250 GOSUB #?C	01/05/81	1056
DIRECTIVE	000260 +FI	01/05/81	1057
	Z% = ASC(INCH\$) : IF Z% = ZL% THEN #?A=NEXT?#X	21/05/81	1058
DIRECTIVE	000280 M CLEAR23	03/06/81	1059
DIRECTIVE	000290 +IFF??A?NOT?EQUAL?NEXT?#?	18/08/81	1060
DIRECTIVE	000300 IF Z% = 8 THEN #?AX	01/05/81	1061
DIRECTIVE	000310 +FI	20/03/81	1062
DIRECTIVE	000320 +IFF??B?NOT?EQUAL?SUB?	18/08/81	1063
DIRECTIVE	000330 IF Z% = ?B THEN #?BX	30/04/81	1064
DIRECTIVE	000340 +FI	01/05/81	1065
DIRECTIVE	000350 +IF??D?EQUAL??GO TO?NEXT1	18/08/81	1066
DIRECTIVE	000360 + DFT E = ?C	25/03/81	1067
DIRECTIVE	IF Z% = ?D THEN #?EX	30/04/81	1068
DIRECTIVE	000380 +IF??F?EQUAL??GO TO?NEXT1	18/08/81	1069
DIRECTIVE	000390 + DFT G = ?C	25/03/81	1070
DIRECTIVE	IF Z% = ?F THEN #?GX	30/04/81	1071
DIRECTIVE	000410 +IF??H?EQUAL??GO TO?NEXT1	18/08/81	1072
DIRECTIVE	000420 +DFT I = ?C	25/03/81	1073
DIRECTIVE	IF Z% = ?H THEN #?IX	30/04/81	1074
DIRECTIVE	000440 +IF??J?EQUAL??GO TO?NEXT1	18/08/81	1075
DIRECTIVE	000450 +DFT K = ?C	25/03/81	1076
DIRECTIVE	IF Z% = ?J THEN #?KX	30/04/81	1077
DIRECTIVE	000470 +IF??L?EQUAL??GO TO?NEXT1	18/08/81	1078
DIRECTIVE	000480 +DFT K = ?C	25/03/81	1079
DIRECTIVE	IF Z% = ?L THEN #?MX	30/04/81	1080
DIRECTIVE	000500 +IF??N?EQUAL??GO TO?NEXT1	18/08/81	1081
DIRECTIVE	000510 +DFT O = ?C	25/03/81	1082
LABEL	000520 IF Z% = ?N THEN #?OX	30/04/81	1083
LABEL	000530 ++NEXT1	25/03/81	1084
LABEL	000540 IF Z% <> 9 THEN GOSUB #NEXT:GOTO #?A=NEXT?#X	01/05/81	1085
LABEL	000550 M CLEAR23	20/03/81	1086

P&amp;Y

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO# NEXT

DATE: 24/09/81

TIME: 10:50

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DIRECTIVE	000560	+GO TO?NEXT3	18/08/81	1087
LABEL	000570	++NEXT2	19/05/81	1088
	000580	IF Z% = 8 THEN #?AX	19/05/81	1089
LABEL	000590	++NEXT3	19/05/81	1090
DIRECTIVE	000600	+CEXIT	19/05/81	1091
	000610	(	25/03/81	1092
	000620	P INIT0	12/05/81	1093
	000630	ZAS=CHR\$(3)+" PRESS"+CHR\$(8)+"]" +CHR\$(9)	16/06/81	1094
	000640	M REVERSE1/ZAS	15/06/81	1095
	000650	ZBS = "???" + CHR\$(8) + "[[]]" + CHR\$(9)	02/06/81	1096
	000660	M REVERSE1/ZBS	15/06/81	1097
	000670	P SUB	03/04/81	1098
	000680	NEXT	03/04/81	1099
	000690	M CLEAR23	01/05/81	1100
	000700	M PRINT23?Z\$	18/08/81	1101
	000710	Z2\$=INCH\$	19/06/81	1102
	000720	IF Z2% = 2 THEN RETURNX	19/05/81	1103
	000730	NEXT1	19/05/81	1104
	000740	Z% = ASC(INCH\$)	19/05/81	1105
	000750	IF Z% = 9 OR Z% = 8 AND Z2% = 1 THEN Z1% = USR(10,5888)	03/06/81	1106
	000760	:GOSUB #SNUMBER:RETURNX	03/06/81	1107
	000770	GOTO#NEXT1	19/05/81	1108
	000780	)	20/03/81	1109

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: PAUSE

DATE: 24/09/81

TIME: 10:50

PAGE: 44

PAUSE	000000 # PAUSE	12/03/81	1110
DIRECTIVE	000010 ? A	27/03/81	1111
DIRECTIVE	000020 +DFT A = OFF	27/03/81	1112
DIRECTIVE	000030 +COMPUTE 2. = ?1 + 23	27/03/81	1113
DIRECTIVE	000040 +IFF??A?EQUAL?UN?	18/08/81	1114
DIRECTIVE	000050 POKE ?2,ZM%	05/05/81	1115
DIRECTIVE	000060 +ELSE	27/03/81	1116
DIRECTIVE	000070 POKE ?2,ZL%	05/05/81	1117
DIRECTIVE	000080 +IF??A?NOT?EQUAL?OFF?WARNING?PAUSE NOT ON OR OFF - SET TO OFF	18/08/81	1118
DIRECTIVE	000090 +FI	27/03/81	1119

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACROS POINT

DATE: 24/09/81

TIME: 10:50

PAGE: 45

POINT 000000 #POINT

18/03/81 1120

000010 ?A B C

18/03/81 1121

000020 M TGRAPHICS?ZL%??B??C?

18/08/81 1122

000030 ?A = ~~X~~

02/04/81 1123

Z3%

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: PRINT23

DATE: 24/09/81

TIME: 10:50

PAGE: 46

PRINT23. 000000 # PRINT23

12/03/81 1124

000010 ?A

12/03/81 1125

000020 Z1\$ = ?A + ZL\$

19/06/81 1126

000030 Z=DPEEK(PTR(Z1\$)):IFZ&gt;ZH%THENZ=Z-ZHx

05/05/81 1127

000040 Z1% = USR(9,5892,Z):GOSUB #SNUMBER

08/06/81 1128



REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: RANDOM

DATE: 24/09/81

TIME: 10:50

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RANDOM	000000 # RANDOM	12/03/81	1129
	000010 ** WHEN THE BUG IN THE RND FUNCTION IS FIXED, THIS MACRO NEED	27/03/81	1130
	000020 ** ONLY BE	27/03/81	1131
	000030 ** Z1% = RND(-ABS(USR(24)))	27/03/81	1132
	000040 GOSUB #RANDOM	27/03/81	1133
DIRECTIVE	000050 +CEXIT	25/03/81	1134
	000060 (	12/03/81	1135
	000070 P SUB	25/03/81	1136
	000080 RANDOM X	12/03/81	1137
	000090 Z1% = ABS(USR(24))	23/03/81	1138
	000100 FOR Z2% = ZL% TO 15	05/05/81	1139
	000110 IF Z1% <= Z2% = Z1% THEN Z2% = 16 - Z1%	11/09/81	1140
	000120 NEXT Z2%	23/03/81	1141
	000130 Z1% = RND(-Z1%)	17/03/81	1142
	000140 RETURN	17/03/81	1143
	000150 )	12/03/81	1144

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: READCLOC

DATE: 24/09/81

TIME: 10:50

PAGE: 48

1 READCLOC 000000 # READCLOCK

12/03/81 1145

2 DIRECTIVE 000010 ?A  
3 000020 + DFT A = Z\$  
4 000030 ?A=SPC(8):Z=DPEEK(PTR(?A)):IFZ>ZH%THENZ=Z-ZH%  
5 000040 Z% = USR(21,Z)

12/03/81 1146  
30/03/81 1147  
13/05/81 1148  
08/05/81 1149

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0NSY

MACRO# RESET

DATE: 24/09/81

TIME: 10:50

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LN		RESET	000000 #RESET	18/03/81	1150
1		000010 ?A B		18/03/81	1151
2	DIRECTIVE	000020 +IFF??A?EQUAL?INIT?		18/08/81	1152
3		000030 GOSUB #RESETINIT		03/04/81	1153
4		000040 (		03/04/81	1154
5		000050 P RESETINIT		03/04/81	1155
6		000060 )		03/04/81	1156
7	DIRECTIVE	000070 +ELSE		23/03/81	1157
8		000080 M TGRAPHICS?ZH%?A??B?		18/08/81	1158
9	DIRECTIVE	000090 +FI		31/03/81	1159
10	DIRECTIVE	000100 +CEXIT		03/04/81	1160
11		000110 (		03/04/81	1161
12		000120 B RESETINIT		03/04/81	1162
13		000130 P SUB		03/04/81	1163
14	DIRECTIVE	000140 ;IF/NO/RESETINIT/GO TO/RESETEND		03/04/81	1164
15		000150 RESETINIT		03/04/81	1165
16		000160 FOR Z1% =ZL%TO 22		05/05/81	1166
17		000170 PRINT\$ (Z1%,ZL%) CHR\$(32)		05/05/81	1167
18		000180 NEXT Z1%		03/04/81	1168
19		000190 RETURN		03/04/81	1169
20	LABEL	000200 &RESETEND		03/04/81	1170
21		000210 )		03/04/81	1171

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: REVERSE

DATE: 24/09/81

TIME: 10:50

PAGE: 50

REVERSE 000000 # REVERSE  
000010 ?A  
000020 +DFT A = OFF  
000030 +IFF??A?NOT?EQUAL?ON?IF??A?NOT?EQUAL?OFF  
000040 + WARNING?REVERSE NOT SET TO ON OR OFF = SET TO OFF  
000050 + SET A = OFF  
000060 +FI  
000070 +IFF??A?EQUAL?ON  
000080 Z1% = USR (11,ZM%):Z0%=ZM%  
DIRECTIVE 000090 +ELSE  
000100 Z1% = USR (11,ZL%):Z0%=ZL%  
000110 +FI  
000120 + CEXIT  
000130 R REVERSE  
000140 ( REVERSE  
000150 P REVERSE  
000160 )

24/03/81 1172  
24/03/81 1173  
27/03/81 1174  
18/08/81 1175  
18/08/81 1176  
27/03/81 1177  
24/03/81 1178  
18/08/81 1179  
22/07/81 1180  
24/03/81 1181  
22/07/81 1182  
12/03/81 1183  
22/07/81 1184  
22/07/81 1185  
22/07/81 1186  
22/07/81 1187  
22/07/81 1188

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: REVERSE1

DATE: 24/09/81

TIME: 10:50

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REVERSE1	000000 #	REVERSE1
	000010 ?	A
	000020	Z=PTR(?A):GOSUB #REVERSE1
DIRECTIVE	000030 +	CEXIT
	000040 (	
	000050 P SUB	
	000060	REVERSE1
	000070	Z1=DPEEK(Z):Z2=DPEEK(Z+2)+Z1-1
	000080	FORZ=Z1TOZ2:POKEZ,PEEK(Z)+128:NEXTZ
	000090	RETURN
	000100 )	

15/06/81	1189
15/06/81	1190
15/06/81	1191
15/06/81	1192
15/06/81	1193
15/06/81	1194
15/06/81	1195
15/06/81	1196
15/06/81	1197
15/06/81	1198
15/06/81	1199

RGLINE	000000 * RGLINE	22/06/81	1200
	000010 ? A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	22/06/81	1201
	Z\$=?A:GOSUB #RGLINEOPEN	22/06/81	1202
DIRECTIVE	000030 +IFF/?B/NOT/EQUAL/R/	22/06/81	1203
	?C = """;Z%=?B:Z=PTR(?C):GOSUB #RGLINE	22/06/81	1204
	?E = """;Z%=?D:Z=PTR(?E):GOSUB #RGLINE	22/06/81	1205
	?G = """;Z%=?F:Z=PTR(?G):GOSUB #RGLINE	22/06/81	1206
	?I = """;Z%=?H:Z=PTR(?I):GOSUB #RGLINE	22/06/81	1207
	?K = """;Z%=?J:Z=PTR(?K):GOSUB #RGLINE	22/06/81	1208
	?M = """;Z%=?L:Z=PTR(?M):GOSUB #RGLINE	22/06/81	1209
	?O = """;Z%=?N:Z=PTR(?O):GOSUB #RGLINE	22/06/81	1210
	?Q = """;Z%=?P:Z=PTR(?Q):GOSUB #RGLINE	22/06/81	1211
	?S = """;Z%=?R:Z=PTR(?S):GOSUB #RGLINE	22/06/81	1212
	?U = """;Z%=?T:Z=PTR(?U):GOSUB #RGLINE	22/06/81	1213
	?W = """;Z%=?V:Z=PTR(?W):GOSUB #RGLINE	22/06/81	1214
	?Y = """;Z%=?X:Z=PTR(?Y):GOSUB #RGLINE	22/06/81	1215
DIRECTIVE	000160 +ELSE	22/06/81	1216
DIRECTIVE	000170 + DFT F = 0	22/06/81	1217
	Z2%=?F	22/06/81	1218
	FORZ1%=?CT0?D:?E(Z2%)=""";Z%=?1%:Z=PTR(?E(Z2%)):GOSUB#RGLINE	22/06/81	1219
	Z2%=?2%+1:NEXTZ1%	22/06/81	1220
DIRECTIVE	000210 + IFF/?H/NOT/EQUAL//	22/06/81	1221
DIRECTIVE	000220 + DFT G = 0	22/06/81	1222
	Z2%=?J	22/06/81	1223
	FORZ1%=?GT0?H:?I(Z2%)=""";Z%=?1%:Z=PTR(?I(Z2%)):GOSUB#RGLINE	22/06/81	1224
	Z2%=?2%+1:NEXTZ1%	22/06/81	1225
DIRECTIVE	000260 + FI	22/06/81	1226
DIRECTIVE	000270 + IFF/?L/NOT/EQUAL//	22/06/81	1227
DIRECTIVE	000280 + DFT K = 0	22/06/81	1228
	Z2%=?N	22/06/81	1229
	FORZ1%=?KT0?L:?M(Z2%)=""";Z%=?1%:Z=PTR(?M(Z2%)):GOSUB#RGLINE	22/06/81	1230
	Z2%=?2%+1:NEXTZ1%	22/06/81	1231
DIRECTIVE	000320 + FI	22/06/81	1232
DIRECTIVE	000330 + IFF/?P/NOT/EQUAL//	22/06/81	1233
DIRECTIVE	000340 + DFT R = 0	22/06/81	1234
	Z2%=?R	22/06/81	1235
	FORZ1%=?OT0?P:?=Q(Z2%)=""";Z%=?1%:Z=PTR(?Q(Z2%)):GOSUB#RGLINE	22/06/81	1236
	Z2%=?2%+1:NEXTZ1%	22/06/81	1237
DIRECTIVE	000380 + FI	22/06/81	1238
DIRECTIVE	000390 +FI	22/06/81	1239
	GOSUB #RGLINECLOSE	22/06/81	1240
DIRECTIVE	000410 +CEXIT	22/06/81	1241
	000420 (	22/06/81	1242
	000430 P SUB	22/06/81	1243
	000440 RGLINEOPEN	22/06/81	1244
	OPEN OLD Z\$ AS 9	22/06/81	1245
	FIELD #9,2 AS ZZ\$,250 AS ZY\$	22/06/81	1246
	RETURN	22/06/81	1247
	000480 RGLINE	22/06/81	1248
	GET #9,RECORD Z%	22/06/81	1249
	Z%=?CVT\$%(ZZ\$)	22/06/81	1250
	ZX\$=LEFT\$(ZY\$,Z%)	22/06/81	1251
	Z1=?PTR(ZX\$)	22/06/81	1252
	DPOKE Z,DPEEK(Z1):DPOKE Z+2,Z%	22/06/81	1253
	DPOKE Z1,0:DPOKEZ1+2,0	22/06/81	1254
	RETURN	22/06/81	1255

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0MSY

MACRO# RGLINE

DATE: 24/09/81

TIME: 10:50

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000560 RGLINECLOSE  
000570 CLOSE 9  
000580 RETURN  
000590 )

22/06/81 1256  
22/06/81 1257  
22/06/81 1258  
22/06/81 1259

REPORT SX3CMD/2.1 ATU MACRO FILE: PPOMSY MACRO: RUNCLOCK DATE: 24/09/81 TIME: 10:50 PAGE: 54

RUNCLOCK	000000 #	RUNCLOCK	12/03/81	1260
	000010	Z1%=USR(22,ZM%)	05/05/81	1261

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0MSY

MACRO: SCHAR

DATE: 24/09/81

TIME: 10:50

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	SCHAR	000000 #SCHAR	25/03/81	1262
	DIRECTIVE	000010 ? A B C	25/03/81	1263
	DIRECTIVE	000020 +IFF??B?NUMERIC?COMPUTE B = ?B * 10	18/08/81	1264
	DIRECTIVE	000030 +ELSE?IF??B?NOT?EQUAL??SET B = ?B * 10	18/08/81	1265
	DIRECTIVE	000040 +FI	02/04/81	1266
	DIRECTIVE	000050 +IFF??C?NUMERIC?COMPUTE C = ?C * 6	18/08/81	1267
	DIRECTIVE	000060 +ELSE?IF??C?NOT?EQUAL??SET C = ?C * 6	18/08/81	1268
	DIRECTIVE	000070 +FI	02/04/81	1269
		000080 M GPRINT??A??B??C?	18/08/81	1270

SCREEN	000000 #SCREEN	12/03/81	1271
	000010 ?A B	12/03/81	1272
DIRECTIVE	000020 +DFT A = T1	12/03/81	1273
DIRECTIVE	000030 +IFF??A?NOT?EQUAL?T1?IF??A?NOT?EQUAL?G1?	18/08/81	1274
DIRECTIVE	000040 + UNSET B	30/03/81	1275
DIRECTIVE	000050 + IFF??A?NOT?EQUAL?T2?IF??A?NOT?EQUAL?G2	18/08/81	1276
DIRECTIVE	000060 + ERROR?INVALID SCREEN TYPE?	18/08/81	1277
DIRECTIVE	000070 + EXIT	30/03/81	1278
DIRECTIVE	000080 + FI	30/03/81	1279
DIRECTIVE	000090 +FI	30/03/81	1280
DIRECTIVE	000100 +IFF??A?EQUAL?T1?	18/08/81	1281
	000110 Z1%=USR(46,ZM%)	05/05/81	1282
DIRECTIVE	000120 + UNSET Y	30/03/81	1283
DIRECTIVE	000130 + IFF??B?NOT?EQUAL??	18/08/81	1284
DIRECTIVE	000140 + SET Z = 6144	30/03/81	1285
DIRECTIVE	000150 + IF??B?EQUAL?80?SET Z = 6145	18/08/81	1286
DIRECTIVE	000160 + IF??B?EQUAL?80?SET Y = 6144	18/08/81	1287
DIRECTIVE	000170 + IF??B?EQUAL?40?SET Y = 2048	18/08/81	1288
DIRECTIVE	000180 + IF??B?EQUAL?20?SET Y = 4096	18/08/81	1289
	000190 Z1% = USR(ZI%,USR(ZJ%)) AND NOT ?Z OR ?Y)	05/05/81	1290
DIRECTIVE	000200 + FI	12/03/81	1291
DIRECTIVE	000210 + EXIT	30/03/81	1292
DIRECTIVE	000220 +FI	30/03/81	1293
DIRECTIVE	000230 +IFF??A?EQUAL?T2?	18/08/81	1294
	000240 IF(USR(ZJ%) AND 6144)<> 6144 THEN Z1% = USR(46,ZN%)X	05/05/81	1295
DIRECTIVE	000250 + EXIT	27/04/81	1296
DIRECTIVE	000260 +FI	27/04/81	1297
DIRECTIVE	000270 +IFF??B?EQUAL?480?	18/08/81	1298
DIRECTIVE	000280 + COMPUTE 2 = ?1 + 4	30/03/81	1299
	000290 IF PEEK(?2)<>ZL%THENZ1% = USR(ZI%,USR(ZJ%)ANDNOTZN%OR4)	05/05/81	1300
	000300 :POKE?1,ZM%	08/05/81	1301
DIRECTIVE	000310 + EXIT	30/03/81	1302
DIRECTIVE	000320 +FI	12/03/81	1303
DIRECTIVE	000330 +IFF??B?EQUAL?240?	18/08/81	1304
	000340 Z1% = USR(ZI%,USR(ZJ%)AND NOT 4)	05/05/81	1305
DIRECTIVE	000350 +FI	05/05/81	1306
DIRECTIVE	000360 +IFF??A?EQUAL?G1?	18/08/81	1307
	000370 POKE ?1,ZL%	05/05/81	1308
DIRECTIVE	000380 + EXIT	05/05/81	1309
DIRECTIVE	000390 +FI	05/05/81	1310
DIRECTIVE	000400 +IFF??A?EQUAL?G2?	18/08/81	1311
DIRECTIVE	000410 +COMPUTE 2 = ?1 + 4	30/03/81	1312
	000420 IF PEEK(?2) > ZL% THEN POKE ?1,ZN%	05/05/81	1313
DIRECTIVE	000430 +FI	05/05/81	1314

LINE	SELECTOR	000000 #	SELECTOR	30/03/81	1315
1	DIRECTIVE	000010 ? A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		30/03/81	1316
2	DIRECTIVE	000020 +IFF??A?EQUAL?REENTER?		18/08/81	1317
3	DIRECTIVE	000030 GOSUB #SELECTOR3		04/05/81	1318
4	DIRECTIVE	000040 +CEXIT		13/05/81	1319
5	DIRECTIVE	000050 +GO TO?CEXIT		18/08/81	1320
6	DIRECTIVE	000060 +FI		04/05/81	1321
7	DIRECTIVE	000070 +DFT A = WHITE		30/03/81	1322
8	DIRECTIVE	000080 +DFT B = WHITE		30/03/81	1323
9	DIRECTIVE	Z1\$=?A":Z2\$=?B":GOSUB#SELECTOR		16/04/81	1324
10	DIRECTIVE	000100 +IF??C?EQUAL??GO TO?SELECTOR1?		18/08/81	1325
11	DIRECTIVE	Z1\$=?C":Z3\$=?D":GOSUB#SELECTOR2		01/05/81	1326
12	DIRECTIVE	000120 +IF??E?EQUAL??GO TO?SELECTOR1?		18/08/81	1327
13	DIRECTIVE	Z1\$=?E":Z3\$=?F":GOSUB#SELECTOR2		01/05/81	1328
14	DIRECTIVE	000140 +IF??G?EQUAL??GO TO?SELECTOR1?		18/08/81	1329
15	DIRECTIVE	Z1\$=?G":Z3\$=?H":GOSUB#SELECTOR2		01/05/81	1330
16	DIRECTIVE	000160 +IF??I?EQUAL??GO TO?SELECTOR1?		18/08/81	1331
17	DIRECTIVE	Z1\$=?I":Z3\$=?J":GOSUB#SELECTOR2		01/05/81	1332
18	DIRECTIVE	000180 +IF??K?EQUAL??GO TO?SELECTOR1?		18/08/81	1333
19	DIRECTIVE	Z1\$=?K":Z3\$=?L":GOSUB#SELECTOR2		01/05/81	1334
20	DIRECTIVE	000200 +IF??M?EQUAL??GO TO?SELECTOR1?		18/08/81	1335
21	DIRECTIVE	Z1\$=?M":Z3\$=?N":GOSUB#SELECTOR2		01/05/81	1336
22	DIRECTIVE	000220 +IF??O?EQUAL??GO TO?SELECTOR1?		18/08/81	1337
23	DIRECTIVE	Z1\$=?O":Z3\$=?P":GOSUB#SELECTOR2		01/05/81	1338
24	DIRECTIVE	000240 +IF??Q?EQUAL??GO TO?SELECTOR1?		18/08/81	1339
25	DIRECTIVE	Z1\$=?Q":Z3\$=?R":GOSUB#SELECTOR2		01/05/81	1340
26	DIRECTIVE	000260 +IF??S?EQUAL??GO TO?SELECTOR1?		18/08/81	1341
27	DIRECTIVE	Z1\$=?S":Z3\$=?T":GOSUB#SELECTOR2		01/05/81	1342
28	DIRECTIVE	000280 +IF??U?EQUAL??GO TO?SELECTOR1?		18/08/81	1343
29	DIRECTIVE	Z1\$=?U":Z3\$=?V":GOSUB#SELECTOR2		01/05/81	1344
30	DIRECTIVE	000300 +IF??W?EQUAL??GO TO?SELECTOR1?		18/08/81	1345
31	DIRECTIVE	Z1\$=?W":Z3\$=?X":GOSUB#SELECTOR2		01/05/81	1346
32	DIRECTIVE	000320 +IF??Q?EQUAL??GO TO?SELECTOR1?		18/08/81	1347
33	DIRECTIVE	Z1\$=?Y":Z3\$=?Z":GOSUB#SELECTOR2		01/05/81	1348
34	LABEL	000340 ++SELECTOR1	R 1315	30/03/81	1349
35	LABEL	000350 GOSUB#SELECTOR3		30/03/81	1350
36	DIRECTIVE	+CExit :SEL-QUIT (Procedure Name KSD)		30/03/81	1351
37	LABEL	000370 ++CExit		13/05/81	1352
38	LABEL	000380 ()		30/03/81	1353
39		000390 P INIT0		12/05/81	1354
40		DIM Z1\$(4), Z1%(11), Z2%(11)		08/05/81	1355
41		Z1\$(ZL%)="<,":Z1\$(ZM%)="5"+CHR\$(127)+"?":Z1\$(ZN%)="",,"		18/08/81	1356
42		Z1\$(3)=" "+CHR\$(31):Z1\$(4)="RGYBMC"		08/05/81	1357
43		000430 P SUB		30/03/81	1358
44		000440 SELECTOR		30/03/81	1359
45		** Z1\$=TEXT COLOUR: Z2\$=BOX COLOUR: Z8%=NO. OF BOXES: Z\$=WORK		30/03/81	1360
46		** Z1\$=TEXT COLOUR: Z2\$=BOX COLOUR: Z% = WORK		30/03/81	1361
47		Z\$=Z1\$:GOSUB #SELECTOR1:Z1\$=CHR\$(Z%)		30/03/81	1362
48		Z\$=Z2\$:GOSUB #SELECTOR1:Z2\$=CHR\$(Z%+16)		16/04/81	1363
49		FOR Z% = ZL% TO 11: Z1%(Z%) = ZP%: Z2%(Z%) = ZP%: NEXT Z%: Z8% = ZK%		05/05/81	1364
50		000500 RETURN		30/03/81	1365
51		000510 SELECTOR1		30/03/81	1366
52		Z% = INSTR(ZM%, Z1\$(4), LEFT\$(Z\$, ZM%))		08/05/81	1367
53		IF Z% = 0 THEN Z% = 7%		08/05/81	1368
54		000540 RETURN		08/05/81	1369
55		000550 SELECTOR2		30/03/81	1370

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000560 **Z1%=ROW: Z2%=COLUMN:Z3%=NO OF TEXT LINES = 1:Z4%=LENGTH OF LINES 16/04/81 1371
000570 ** Z8%=NO OF BOXES 30/03/81 1372
000580 IF Z1%>550RZ3$=""THENRETURNX 04/05/81 1373
000590 Z3% = Z1%/8:Z2%=(Z1-Z3%*8)*5:Z1% = Z3%*3 04/05/81 1374
000600 Z5% = ASC(Z3$):Z4% = LEN(Z3$) 04/05/81 1375
000610 IF Z5% > 31 THEN Z3% = ZL% 05/05/81 1376
000620 ELSE Z3$ = MID$(Z3$, ZN%) 05/05/81 1377
000630 :Z% = Z5% 04/05/81 1378
000640 :Z3% = (Z4%-ZM%)/Z5% 05/05/81 1379
000650 :Z4% = Z%:Z5% = ASC(Z3$)X 04/05/81 1380
000660 Z8% = Z8%+2M% 05/05/81 1381
000670 Z1%(Z8%) = Z1%+ZM% 05/05/81 1382
000680 Z2%(Z8%) = Z2%+ZN% 05/05/81 1383
000690 FOR Z% = ZL% TO ZN% 05/05/81 1384
000700 PRINT@(Z1%+Z%, Z2%) Z2$;Z1$(Z%) 01/05/81 1385
000710 NEXT Z% 16/04/81 1386
000720 IF Z4% = ZM% AND Z3% = ZL% AND Z5% > .63 AND Z5% < .96 05/05/81 1387
000730 THEN PRINT@(Z1%+ZM%, Z2%+ZN%) Z3$;!RETURNX 05/05/81 1388
000740 Z2% = Z2% + Z4% - ZM%:IF Z2% < ZL% THEN Z2% = ZL% 05/05/81 1389
000750 IF Z3% = ZL% THEN PRINT@(Z1%+ZM%, Z2%) Z1$;Z3$;!RETURNX 05/05/81 1390
000760 FOR Z% = ZL% TO Z3% 05/05/81 1391
000770 PRINT@(Z1%+Z%, Z2%) Z1$;MID$(Z3$, Z4%*Z%+ZM%, Z4%) 05/05/81 1392
000780 NEXT Z% 16/04/81 1393
000790 RETURN 30/03/81 1394
000800 SELECTOR3
000810 ** Z1% = CURRENT ROW: Z2% = CURRENT COL: Z3% = CURRENT OCCURANCE 31/03/81 1395
000820 ** Z8% = NO OF BOXES 31/03/81 1396
000830 M CLEAR23 31/03/81 1397
000840 Z$=CHR$(3)+"PRESS"+CHR$(8)+"ENTER"+CHR$(9)+"TO SELECT" 31/03/81 1398
000850 M REVERSE1/Z$ 15/06/81 1399
000860 M PRINT23/Z$ 15/06/81 1400
000870 Z3% = ZL%:IF Z8% < ZL% THEN Z% = ZK%:RETURNX 15/06/81 1401
000880 SELECTOR4
000890 Z1% = Z1%(Z3%) 31/03/81 1402
000900 Z2% = Z2%(Z3%):PRINT@(Z1%, Z2%)"::ZC% = USR(15) 01/05/81 1403
000910 IF ZC% < 128 THEN 01/05/81 1404
000920 Z1$ = CHR$(ZC%+128)ELSE Z1$ = CHR$(ZC%-128)X 05/05/81 1405
000930 Z2$ = CHR$(ZC%):Z$ = Z1$ 05/05/81 1406
000940 SELECTOR5
000950 PRINT@(Z1%, Z2%) Z$":ZC% = ZL% 05/05/81 1407
000960 SELECTOR6
000970 ZZ$ = INCH$:IF ZZ$ <> ZL$ THEN #SELECTOR7X 19/05/81 1408
000980 ZC% = ZC%+ZM%:IF ZC% < 35 THEN #SELECTOR6X 05/05/81 1409
000990 IF ZZ$ = Z1$ THEN Z$ = Z2$ELSE Z$ = Z1$X 01/05/81 1410
001000 GOTO #SELECTOR5 01/05/81 1411
001010 SELECTOR7
001020 Z% = ASC(ZZ$) 19/05/81 1412
001030 PRINT@(Z1%, Z2%) Z2$; 04/05/81 1413
001040 R SELECTOR
001050 IF Z% < 80RZ% > 130RZ% = 12GOTO #SELECTOR5X 04/05/81 1414
001060 IF Z% = 13 THEN Z% = USR(10, 5888):PRINT@(Z1%, Z2%) Z1$":Z% = Z3%+ZM% 05/05/81 1415
001070 :GOSUB #SNUMBER 03/06/81 1416
001080 :RETURNX 04/05/81 1417
001090 Z0% = Z3%:Z9% = Z3% 02/06/81 1418
001100 ONZ% = ?GOTO #SELECTOR8, #SELECTOR9, #SELECTOR10, #SELECTOR11X 12/05/81 1419
001110 SELECTOR8 01/05/81 1420
001120 Z4% = ZK%:Z5% = Z2% 02/06/81 1421

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001130	FORZ7%:=0TOZ8%	01/05/81	1428
001140	IFZ7%:=Z3%ORZ1%(Z7%)<>Z1%THEN #SELECTOR8A	01/05/81	1429
001150	Z6%:=Z2%(Z7%)	01/05/81	1430
001160	IFZ6%<Z2%ANDZ6%>Z4%THENZ4%:=Z6%:Z9%:=Z7% IFZ6%>Z5%THENZ5%:=Z6%:Z0%:=Z7% X	01/05/81	1431
001170		12/05/81	1432
001180	SELECTOR8A	01/05/81	1433
001190	NEXTZ7%	01/05/81	1434
001200	IFZ4%:=ZK%THENZ3%:=Z0% ELSE Z3%:=Z9% X	05/05/81	1435
001210	GOTO#SELECTOR4	01/05/81	1436
001220	SELECTOR9	01/05/81	1437
001230	Z4%:=ZP%:Z5%:=Z2%	02/06/81	1438
001240	FORZ7%:=ZL%TOZ8%	05/05/81	1439
001250	IFZ7%:=Z3% OR Z1%(Z7%)<>Z1%THEN #SELECTOR9A	01/05/81	1440
001260	Z6%:=Z2%(Z7%)	01/05/81	1441
001270	IFZ6%>Z2%ANDZ6%<Z4%THENZ4%:=Z6%:Z9%:=Z7% IFZ6%<Z5%THENZ5%:=Z6%:Z0%:=Z7% X	01/05/81	1442
001280		12/05/81	1443
001290	SELECTOR9A	01/05/81	1444
001300	NEXTZ7%	01/05/81	1445
001310	IFZ4%:=ZP%THENZ3%:=Z0%ELSEZ3%:=Z9% X	05/05/81	1446
001320	GOTO#SELECTOR4	01/05/81	1447
001330	SELECTOR10	01/05/81	1448
001340	Z4%:=ZP%:Z5%:=Z1%	02/06/81	1449
001350	FORZ7%:=ZL%TOZ8%	05/05/81	1450
001360	IFZ7%:=Z3%ORZ2%(Z7%)<>Z2%THEN #SELECTOR10A	04/05/81	1451
001370	Z6%:=Z1%(Z7%)	01/05/81	1452
001380	IFZ6%>Z1%ANDZ6%<Z4%THENZ4%:=Z6%:Z9%:=Z7% IFZ6%<Z5%THENZ5%:=Z6%:Z0%:=Z7% X	01/05/81	1453
001390		12/05/81	1454
001400	SELECTOR10A	01/05/81	1455
001410	NEXTZ7%	01/05/81	1456
001420	IFZ4%:=ZP%THENZ3%:=Z0% ELSE Z3%:=Z9% X	05/05/81	1457
001430	GOTO#SELECTOR4	01/05/81	1458
001440	SELECTOR11	01/05/81	1459
001450	Z4%:=ZK%:Z5%:=Z1%	02/06/81	1460
001460	FORZ7%:=ZL%TOZ8%	05/05/81	1461
001470	IFZ7%:=Z3% OR Z2%(Z7%)<>Z2%THEN #SELECTOR11A	01/05/81	1462
001480	Z6%:=Z1%(Z7%)	01/05/81	1463
001490	IFZ6%<Z1%ANDZ6%>Z4%THENZ4%:=Z6%:Z9%:=Z7% IFZ6%>Z5%THENZ5%:=Z6%:Z0%:=Z7% X	01/05/81	1464
001500		12/05/81	1465
001510	SELECTOR11A	01/05/81	1466
001520	NEXTZ7%	01/05/81	1467
001530	IFZ4%:=ZK%THENZ3%:=Z0%ELSEZ3%:=Z9% X	05/05/81	1468
001540	GOTO#SELECTOR4	01/05/81	1469
001550 )		02/04/81	1470

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: SELECTVA

DATE: 24/09/81

TIME: 10:50

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```
2      SELECTVA    000000 #SELECTVAL  
3  
4      000010 ? A B C D E F G H  
5      000020 (   
6      000030 P SELECTOR  
7      000040   IF Z% = ?A  
8      000050   OR Z% = ?B  
9      000060   OR Z% = ?C  
10     000070   OR Z% = ?D  
11     000080   OR Z% = ?E  
12     000090   OR Z% = ?F  
13     000100   OR Z% = ?G  
14     000110   OR Z% = ?H  
15     000120   THEN RETURNx  
16     000130 )
```

```
04/05/81 1471  
04/05/81 1472  
04/05/81 1473  
04/05/81 1474  
04/05/81 1475  
04/05/81 1476  
04/05/81 1477  
04/05/81 1478  
04/05/81 1479  
04/05/81 1480  
04/05/81 1481  
09/06/81 1482  
04/05/81 1483  
04/05/81 1484
```

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0NSY

MACRO: SET

DATE: 24/09/81

TIME: 10:50

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SET	000000 # SET		30/03/81	1485
DIRECTIVE	000010 ? A B		30/03/81	1486
	000020 +IFF??A?EQUAL?INIT?		18/08/81	1487
	000030 GOSUB #SETINIT		03/04/81	1488
	000040 (		03/04/81	1489
	000050 P SETINIT		03/04/81	1490
	000060 )		03/04/81	1491
DIRECTIVE	000070 +ELSE		23/03/81	1492
	000080 M TGRAPHICS?ZN%??A??B?		18/08/81	1493
DIRECTIVE	000090 +FI		23/03/81	1494
DIRECTIVE	000100 +CEXIT.		03/04/81	1495
	000110 (		03/04/81	1496
	000120 P SUB		03/04/81	1497
	000130 R SETINIT		03/04/81	1498
DIRECTIVE	000140 &IF/NO/SETINIT/GO TO/SETEND		03/04/81	1499
	000150 SETINIT		03/04/81	1500
	000160 FOR Z1% = ZL% TO 22		05/05/81	1501
	000170 PRINT@ (Z1%,ZL%) CHR\$(30)		05/05/81	1502
	000180 NEXT Z1%		03/04/81	1503
	000190 RETURN		03/04/81	1504
LABEL	000200 &SETEND		03/04/81	1505
	000210 )		03/04/81	1506

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: SETCLOCK

DATE: 24/09/81

TIME: 10:50

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SETCLOCK	000000 #SETCLOCK	12/03/81 1507
000010	?A	12/03/81 1508
000020	Z\$ = ?A	02/04/81 1509
000030	Z=DPLEK(PTR(Z\$)):IF Z>ZH%THEN Z=ZHx	05/05/81 1510
000040	Z1% = USR(20,Z)	30/04/81 1511

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: SHOWCLOC

DATE: 24/09/81

TIME: 10:50

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SHOWCLOC	000000 #	SHONCLOCK	12/03/81	1512
DIRECTIVE	000010 ?A B		12/03/81	1513
DIRECTIVE	000020 +IF??A?EQUAL??IF??B?EQUAL??GO?ENDIT?		18/08/81	1514
DIRECTIVE	000030 +IFF??A?EQUAL?OFF?		18/08/81	1515
	000040 M STOPCLOCK		12/03/81	1516
	000050 M RUNCLOCK		12/03/81	1517
DIRECTIVE	000060 +ELSE		12/03/81	1518
DIRECTIVE	000070 + DFT A = 23		25/03/81	1519
DIRECTIVE	000080 + DFT B = 32		25/03/81	1520
DIRECTIVE	000090 + COMPUTE A = ?A * 256 + ?B		22/05/81	1521
	Z1% = USR(23, ?A)		17/03/81	1522
DIRECTIVE	000110 +FI		30/03/81	1523
LABEL	000120 ++ENDIT		12/03/81	1524
	000130 Z1% = USR(22)		17/03/81	1525

SKEL	000000 #SKEL		12/03/81	1526
	000010 ?A B C D E F G H I J K L M N O P		01/04/81	1527
	000020 M ADDRESSSET		30/03/81	1528
DIRECTIVE	000030 +DFT E =		19/05/81	1529
DIRECTIVE	000040 +DFT F = "MENU"		10/04/81	1530
DIRECTIVE	000050 +IFF/?F/EQUAL/"MENU"/SET K = MENU LOADING		15/06/81	1531
DIRECTIVE	000060 +ELSE/SET K = LOADING		15/06/81	1532
DIRECTIVE	000070 +FI		15/06/81	1533
DIRECTIVE	000080 +DFT J = 0		12/05/81	1534
DIRECTIVE	000090 +SET D = T1		01/05/81	1535
DIRECTIVE	000100 +DATE S		19/05/81	1536
DIRECTIVE	000110 +TIME T		19/05/81	1537
	000120 REM??A?PROGRAMMED?BY?PROGENI?FOR?POLYCORP?NZ??S??T		18/08/81	1538
	000130 START		12/03/81	1539
DIRECTIVE	000140 +COMPUTE 2 = ?1 + ?0		27/03/81	1540
	000150 Z1% = USR(22,2J)		27/03/81	1541
	000160 ON ERROR GOTO #ERRORSX		03/04/81	1542
	000170 ZK%=-1:ZL%=0:ZN%=1:ZH%=32767:ZH=65536:Z0%=256:ZP%=512		07/05/81	1543
	000180 Z1%=18:ZJ%=19:ZL\$=CHR\$(0):POKE1184,1:ZS\$="00"		02/06/81	1544
DIRECTIVE	000190 +COMPUTE 2 = ?1 + ?2		05/05/81	1545
	000200 POKE ?2,ZM%		05/05/81	1546
	000210 GOSUB #RESET		29/04/81	1547
	000220 GOTO #INIT		27/03/81	1548
	000230 R SUB		27/03/81	1549
	000240 RESET		29/04/81	1550
	000250 Z1%=USR(Z1%,1544):Z1%=USR(46,ZM%)		03/06/81	1551
	000260 DPOKE?1,3:Z1%=USR(11,ZL%):Z1%=USR(47):Z1%=USR(22,1)		02/06/81	1552
	000270 Z1%=USR(10,5888)		02/06/81	1553
	000280 RETURN		29/04/81	1554
	000290 SNUMBER		02/06/81	1555
	000300 IF ZS\$="00" THEN RETURN		08/06/81	1556
	000310 Z1\$=CHR\$(ZN%)+"#"+ZS\$+ZL\$:Z=DPEEK(PTR(Z1\$)):IF Z>ZH% THEN Z=ZH		19/06/81	1557
	000320 Z1%=USR(9,5888,Z):RETURN		08/06/81	1558
	000330 INIT		27/03/81	1559
	000340 R INIT0		12/05/81	1560
	000350 R OPEN		27/03/81	1561
	000360 M TEXTGET/Z\$/0/29/4/		15/06/81	1562
	000370 IF Z\$="POLY" THEN #INIT1x		15/06/81	1563
	000380 CLS		19/05/81	1564
	000390 PRINT#(ZL%,ZM%)CHR\$(3)?"A"		15/06/81	1565
	000400 PRINT#(ZL%,29)"POLY SYSTEM"		15/06/81	1566
	000410 Z%=USR(11,ZM%)		15/06/81	1567
	000420 PRINT#(ZM%,ZL%)CHR\$(13)SPC(39)		16/06/81	1568
DIRECTIVE	000430 +IFF+?B+EQUAL++IF+?C+NOT+EQUAL++SET B = ?0		24/06/81	1569
DIRECTIVE	000440 + UNSET C		16/06/81	1570
DIRECTIVE	000450 +FI		16/06/81	1571
DIRECTIVE	000460 +LENGTH P = ?B		16/06/81	1572
DIRECTIVE	000470 +COMPUTE Q = 38 - ?P / 2		16/06/81	1573
DIRECTIVE	000480 +COMPUTE R = 38 - ?Q - ?P		16/06/81	1574
	000490 PRINT#(3,ZL%)CHR\$(3)CHR\$(13)SPC(?Q)		15/06/81	1575
	000500 "-" "2B";		15/06/81	1576
	000510 "-" SPC(?R);		16/06/81	1577
	000520 +LENGTH P = ?C		16/06/81	1578
DIRECTIVE	000530 +COMPUTE Q = 38 - ?P / 2		16/06/81	1579
DIRECTIVE	000540 +COMPUTE R = 38 - ?Q - ?P		16/06/81	1580
	000550 PRINT#(5,ZL%)CHR\$(3)CHR\$(13)SPC(?Q)		15/06/81	1581

REPORT SX3CM0/2.1

ATU

MACRO FILE: PP0MSY

MACROS: SKEL

DATE: 24/09/81

TIME: 10:50

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	000560	=	"?C";	15/06/81	1582
	000570	=	SPC(7R);	16/06/81	1583
	000580	Z%USR(11,ZL%)		15/06/81	1584
DIRECTIVE	000590	+LENGTH Q = ?G		11/05/81	1585
DIRECTIVE	000600	+COMPUTE Q = 40 - ?Q / 2 - 1		12/05/81	1586
	000610	PRINT@ (11,?Q)CHR\$(ZN%);"?G";		15/06/81	1587
DIRECTIVE	000620	+LENGTH Q = ?H		11/05/81	1588
DIRECTIVE	000630	+COMPUTE Q = 40 - ?Q / 2 - 1		12/05/81	1589
	000640	PRINT@ (13,?Q)CHR\$(ZN%);"?H";		15/06/81	1590
DIRECTIVE	000650	+LENGTH Q = ?I		11/05/81	1591
DIRECTIVE	000660	+COMPUTE Q = 40 - ?Q / 2 - 1		12/05/81	1592
	000670	PRINT@ (15,?Q)CHR\$(ZN%);"?I";		15/06/81	1593
	000680	INIT1		15/06/81	1594
	000690	R INIT		02/04/81	1595
	000700	Z\$=INCH\$;IFZ\$=CHR\$(6)THENGOTO #ERRORS		18/06/81	1596
	000710	PRINT@ (21,ZL%)SPC(10);		17/06/81	1597
	000720	M NEXT		27/03/81	1598
	000730	CLS		15/06/81	1599
	000740	RINIT1		12/03/81	1600
	000750	MAIN		12/03/81	1601
	000760	RMAIN		12/03/81	1602
	000770	FINISH		12/03/81	1603
	000780	RCLOSE		12/03/81	1604
	000790	REFINISH		01/04/81	1605
	000800	NEXTPROGRAM		27/03/81	1606
	000810	GOSUB #RESET		19/05/81	1607
	000820	POKE 1184>0:POKE1182>0		15/06/81	1608
DIRECTIVE	000830	+IFF,?F,NOT,EQUAL, ,		15/06/81	1609
	000840	PRINT@ (22,23)CVT%\$(525);CHR\$(8);"?K";		15/06/81	1610
	000850	CHAIN ?F		10/04/81	1611
DIRECTIVE	000860	+ FI		27/03/81	1612
	000870	END		27/03/81	1613
	000880	ERRORS		27/03/81	1614
	000890	IF ERR=30THENRESUME		30/04/81	1615
	000900	R ERRORS		19/05/81	1616
	000910	GOSUB #RESET		29/04/81	1617
	000920	CLS		19/05/81	1618
	000930	IF ERR=34THENRESUME #NEXTPROGRAM		11/05/81	1619
	000940	POKE 1184>0		19/05/81	1620
	000950	M COLOUR?CYAN?B?		18/08/81	1621
	000960	PRINT@ (4,9)CHR\$(13);"A? ERROR ??? ???????<"		19/05/81	1622
	000970	PRINT@ (8,ZL%)"A?? ??? ????? ?? ?????? ?? ??? LOG"		05/05/81	1623
	000980	PRINT@ (10,8)"P?????? ?A";		15/06/81	1624
	000990	PRINT@ (11,10)"?S ?T";		15/06/81	1625
	001000	PRINT@ (12,8)"E????? ?JERL?"/"?JERR		15/06/81	1626
	001010	PRINT@ (13,8)"S????? ?????? "?JZS\$";		15/06/81	1627
	001020	PRINT@ (14,8)"D????? ?JDATES		15/06/81	1628
	001030	M NEXT		27/03/81	1629
	001040	RESUME #NEXTPROGRAM		27/03/81	1630
	001050	R DATA		12/05/81	1631

REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0NSY

MACRO: SNUMBER

DATE: 24/09/81

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SNUMBER	000000	#	SNUMBER	02/06/81	1632
000010	?	A		02/06/81	1633
000020	Z\$="?A"			03/06/81	1634
000030	GOSUB #SNUMBER			02/06/81	1635

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: STOPCLOC

DATE: 24/09/81

TIME: 10:50

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STOPCLOC 000000 # STUPCLOCK

12/03/81 1636

000010 21% = USR(22,ZL%)

05/05/81 1637

REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: STRING

DATE: 24/09/81

TIME: 10:50

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3	STRING	000000 #STRING	04/05/81	1638
4				
5	DIRECTIVE	000010 ?A_B C	04/05/81	1639
6	DIRECTIVE	000020 +IFF??A?EQUAL??ERROR?NO STRING SPECIFIED	18/08/81	1640
7	DIRECTIVE	000030 +EXIT	04/05/81	1641
8	DIRECTIVE	000040 +FI	04/05/81	1642
9	DIRECTIVE	000050 +IFF??C?EQUAL??SET C =	18/08/81	1643
10	DIRECTIVE	000060 +ELSE?SET C = ,?C	18/08/81	1644
11	DIRECTIVE	000070 +FI	19/05/81	1645
12		000080 ?A=SPC(?B?C)	19/05/81	1646
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REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0NSY

MACRO: TEXTGET

DATE: 24/09/81

TIME: 10:50

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	TEXTGET	000000 #TEXTGET	04/05/81 1647
1		000010 ? A B C D	30/03/81 1648
2		000020 ?A=SPC(?D)	07/04/81 1649
3	DIRECTIVE	000030 Z=OPEEK(PTR(?A))+IFZ>ZH%THENZ=Z-ZHx	05/05/81 1650
4	DIRECTIVE	000040 +IFF??D?NUMERIC?	18/08/81 1651
5	DIRECTIVE	000050 + IFF??D?GREATER?0?	18/08/81 1652
6	DIRECTIVE	000060 Z3%=USR(8,Z,D,CVT\$%(CHR\$(?B)+CHR\$(?C)))	24/06/81 1653
7	DIRECTIVE	000070 + ELSE	24/06/81 1654
8	DIRECTIVE	000080 Z\$=""	24/06/81 1655
9	DIRECTIVE	000090 + FI	24/06/81 1656
10	DIRECTIVE	000100 +ELSE	24/06/81 1657
11	DIRECTIVE	000110 IF ?D>0 THEN	24/06/81 1658
12	DIRECTIVE	000120 Z3%=USR(8,Z,D,CVT\$%(CHR\$(?B)+CHR\$(?C)))	24/06/81 1659
13	DIRECTIVE	000130 ELSEZ\$=""x	22/06/81 1660
14	DIRECTIVE	000140 +FI	24/06/81 1661
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REPORT SX3CMD/2.1

ATU

MACRO FILE: PP0MSY

MACRO: TGRAPHIC

DATE: 24/09/81

TIME: 10:50

PAGE: 70

	TGRAPHIC	000000 # TGRAPHICS	12/05/81	1662
5	DIRECTIVE	000010 ? A B C	31/03/81	1663
6	DIRECTIVE	000020 +IFF??B?NOT?EQUAL??IF??C?NOT?EQUAL??	18/08/81	1664
7	DIRECTIVE	000030 Z%=?A:Z1%=?B:Z2%=?C:GOSUB#TGRAPHICS	31/03/81	1665
8	DIRECTIVE	000040 +ELSE?ERROR?INVALID ROW OR COLUMN	18/08/81	1666
9	DIRECTIVE	000050 +FI	02/04/81	1667
10	DIRECTIVE	000060 +CEXIT	31/03/81	1668
11		000070 (	31/03/81	1669
12		000080 P SUB	31/03/81	1670
13		000090 TGRAPHICS	31/03/81	1671
14		000100 Z4%=?1%/3:Z5%=?2%/ZN%	05/05/81	1672
15		000110 Z3%=?USR(12,Z4%*20%+Z5%)+Z3%=?USR(15)	05/05/81	1673
16		000120 IF(Z3%AND32)<>32THENZ3%=(Z3%AND1280R32)*	13/04/81	1674
17		000130 Z4%=?ZN%*(Z1%+Z4%*3+Z5%)+Z2%)	05/05/81	1675
18		000140 IFZ4%=?32THENZ4%=?64 X	17/09/81	1676
19		000150 IFZ%=?L%THENZ3%=?SGN(Z3%ANDZ4%)*RETURNX	05/05/81	1677
20		000160 IFZ%=?M%THENZ3%=(Z3%ORZ4%)ELSEZ3%=(Z3%ANDNOTZ4%)*	05/05/81	1678
21		000170 Z1%=?USR(5,Z3%*20%)+RETURN	05/05/81	1679
22		000180 )	31/03/81	1680
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REPORT SX3CMD/2.1

ATU

MACRO FILE: PPOMSY

MACRO: TIME

DATE: 24/09/81

TIME: 10:50

PAGE: 71

TIME 000000 #TIME  
000010 ? A  
000020 ?A = USR(24)

30/03/81 1681  
30/03/81 1682  
30/03/81 1683

REPORT SX3CMD/2.1 ATU MACRO FILE: PP0NSY MACRO: WATT DATE: 24/09/81 TIME: 10:50 PAGE: 72

3	WAIT	000000 #	WAIT	12/03/81	1684
4					
5		000010 ?A		12/03/81	1685
6		000020 ** FOR Z0 = 0 TO ?A*820:NEXTZ0		18/08/81	1686
7		000030 Z1%=USR(25,?A)		15/06/81	1687
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BACKUP FILE: 901223 BACKUP/SX3CMD CREATED ON: 09/24/81 (THURSDAY) BY: PPOMSY/SX3CMD CHARGE NUMBER: 222510