

EXPBGN	000130R	EXPCTR	000120R	EXPLOD	000000RG
EXPPTR	000122R	EXPREP	000116RG	EXPX	000124RG
EXPY	000126RG	EXP01	000014R	EXP02	000030R
PC	=%000007	R0	=%000000	R1	=%000001
R2	=%000002	R3	=%000003	R4	=%000004
R5	=%000005	R6	=%000006	R7	=%000007
SLINE	= ***** G	SP	=%000006		= 000330R

END ?

SUBROUTINE EXPLOD

VERSION 3B

DRAWS EXPLOSIONS OF 32 LINES

EXPREP=NUMBER OF EXPLOSIONS

EXPX=X POSITION OF THE EXPLOSION

EXPY=Y POSITION OF THE EXPLOSION

ALL REGISTERS ARE RESTORED

000000 R0=%0

000001 R1=%1

000002 R2=%2

000003 R3=%3

000004 R4=%4

000005 R5=%5

000006 R6=%6

000007 R7=%7

000006 SP=R6

000007 PC=R7

TITLE EXPLOD

GLOBAL SLINE, EXPLOD, EXPREP, EXPX, EXPY

000000 CSECT

000000 010046 EXPLOD: MOV R0, -(SP)

000002 010146 MOV R1, -(SP)

000004 010246 MOV R2, -(SP)

000006 010346 MOV R3, -(SP)

000010 010446 MOV R4, -(SP)

000012 010546 MOV R5, -(SP)

000014 012767 EXP01: MOV #32, EXPCTR ; PUSH LINE COUNT IN CTR

000040

000076

000022 012767' MOV #EXPBGN, EXPPTR ; SET PTR

000130

000072

000030 016700 EXP02: MOV EXPPTR, R0 ; SET UP PTR

000066

000034 012004 MOV (R0)+, R4 ; R4=XEXP

000036 012005 MOV (R0)+, R5 ; R5=YEXP

000040 010067 MOV R0, EXPPTR ; SAVE NEW PTR

000056

000044 016702 MOV EXPX, R2 ; R2=XDISP

000054

000050 016703 MOV EXPY, R3 ; R3=YDISP

000052

000054 060204 ADD R2, R4 ; R4=XDISP+XEXP

000056 060305 ADD R3, R5 ; R5=YDISP+YEXP

000060 004767' JSR PC, SLINE ; DRAW A LINE

000000

000064 005367 DEC EXPCTR ; ARE THERE MORE LINES?

000030

000070 003357 BGT EXP02 ; YES-DO IT AGAIN

000072 005367 DEC EXPREP ; NO-ARE THERE MORE REPEATS?

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000076 003346      BGT      EXP01      ;YES-DO IT ALL AGAIN
000100 012605      MOV      (SP)+,R5    ;NO-FINISHED-RESTORE REGISTERS
000102 012604      MOV      (SP)+,R4
000104 012603      MOV      (SP)+,R3
000106 012602      MOV      (SP)+,R2
000110 012601      MOV      (SP)+,R1
000112 012600      MOV      (SP)+,R0
000114 000207      RTS       PC          ;SUBROUTINE DONE
000116 000000 EXPREP: .WORD 0
000120 000000 EXPCTR: .WORD 0
000122 000000 EXPPTR: .WORD 0
000124 000000 EXPX:   .WORD 0
000126 000000 EXPY:   .WORD 0
;FIRST GROUP OF LINES
000130 003731 EXPBGN:.WORD 2009.,400.,1703.,1138.
000132 000620
000134 003247
000136 002162
000140 002162      .WORD 1138.,1703.,400.,2009.
000142 003247
000144 000620
000146 003731
000150 177160      .WORD -400.,2009.,-1138.,1703.
000152 003731
000154 175616
000156 003247
000160 174531      .WORD -1703.,1138.,-2009.,400.
000162 002162
000164 174047
000166 000620
000170 174047      .WORD -2009.,-400.,-1703.,-1138.
000172 177160
000174 174531
000176 175616
000200 175616      .WORD -1138.,-1703.,-400.,-2009.
000202 174531
000204 177160
000206 174047
000210 000620      .WORD 400.,-2009.,1138.,-1703.
000212 174047
000214 002162
000216 174531
000220 003247      .WORD 1703.,-1138.,2009.,-400.
000222 175616
000224 003731
000226 177160
;SECOND GROUP OF LINES
000230 010000      .WORD 4096.,0.,3784.,1567.
000232 000000
000234 007310
000236 003037
000240 005520      .WORD 2896.,2896.,1567.,3784.
000242 005520
000244 003037
000246 007310
000250 000000      .WORD 0.,4096.,-1567.,3784.

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000252 010000
000254 174741
000256 007310

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000260 172260 . WORD -2896. , 2896. , -3784. , 1567.
000262 005520
000264 170470
000266 003037
000270 170000 . WORD -4096. , 0. , -3784. , -1567.
000272 000000
000274 170470
000276 174741
000300 172260 . WORD -2896. , -2896. , -1567. , -3784.
000302 172260
000304 174741
000306 170470
000310 000000 . WORD 0. , -4096. , 1567. , -3784.
000312 170000
000314 003037
000316 170470
000320 005520 . WORD 2896. , -2896. , 3784. , -1567.
000322 172260
000324 007310
000326 174741
000001 . END

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000000 ERRORS

PAL-11S V003A

*S H

*B H

*L T

*T T