

KBS	= 177560	PC	=2000007	PFLAG	000102R
PRS	= 177564	PWRDWN	000044R	PWRSAY	000104R
PWRUP	000000R	R0	=2000000	R1	=2000001
R2	=2000002	R3	=2000003	R4	=2000004
R5	=2000005	R6	=2000006	R7	=2000007
SP	=2000006		= 000106R		

END ?

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SUBROUTINE PWRUP

VERSION 2A

BILL SEILER

SEPT 6, 1974

HANDLES POWER FAILURE AND  
RESTARTS THE RUNNING PROGRAM

000000	R0=X0		
000001	R1=X1		
000002	R2=X2		
000003	R3=X3		
000004	R4=X4		
000005	R5=X5		
000006	R6=X6		
000007	R7=X7		
000006	SP=R6		
000007	PC=R7		
177560	KBS=177560		; ADDRESS OF KEYBOARD STATUS REG.
177564	PRS=177564		; ADDRESS OF PRINTER STATUS REG.
000000	.ASECT		
000024	=24		
000024 000000	PWRUP		
000026 000340	340		
	.TITLE PWRUP		
000000	.CSECT		
000000 005767 PWRUP:	TST PFLAG		; IS THIS PWR UP OR DOWN
000076			
000004 001417	BEQ PWRDWN		; IF CLEAR PWR DOWN
000006 016706	MOV PWRSAY, R6		; IF NOT PWR UP-RESTORE STK
000072			
000012 012667	MOV (SP)+, KBS		; RETURN KEYBOARD STATUS
177560			
000016 012667	MOV (SP)+, PRS		; RETURN PRINTER STATUS
177564			
000022 012605	MOV (SP)+, R5		
000024 012604	MOV (SP)+, R4		
000026 012603	MOV (SP)+, R3		
000030 012602	MOV (SP)+, R2		
000032 012601	MOV (SP)+, R1		
000034 012600	MOV (SP)+, R0		; RESTORE REGISTERS
000036 005067	CLR PFLAG		; CLEAR PWR FLAG
000040			
000042 000002	RTI		; RETURN FROM INTERRUPT
000044 010046 PWRDWN:	MOV R0, -(SP)		; POWER D
000046 010146	MOV R1, -(SP)		; 0
000050 010246	MOV R2, -(SP)		; W
000052 010346	MOV R3, -(SP)		; N
000054 010446	MOV R4, -(SP)		
000056 010546	MOV R5, -(SP)		; SAVE REGISTERS
000060 016746	MOV PRS, -(SP)		; SAVE PRINTER STATUS
177564			
000064 016746	MOV KBS, -(SP)		; SAVE KEYBOARD STATUS
177560			

PAGE 001

000070 010667

MOV SP, PWR5AV

SAVE THE STK

000010

000074 005267

INC PFLAG

SET FLAG FOR PWR UP NEXT TIME

000002

000100 000000

HALT

WAIT FOR THE POWER TO RETURN

000102 000000 PFLAG: WORD 0

000104 000000 PWR5AV: WORD 0

000001 END

PAGE 002

000000 ERRORS

PAL-115 V003A

\*S H

\*B H

\*L T

\*T I