

00000000	01111111	1112222222222333	3333333344444444	4555555555556666	6666666677777777	777777778
12345678	90123456	7890123456789012	3456789012345678	9012345678901234	5678901234567890	1234567890
;						
; BOOT BLOCK.						
;						
; AUTHOR: PAUL HARDY. THIS CODE IS IN THE PUBLIC DOMAIN.						
;						
; THIS CODE IS IN TRACK 0 SECTOR 0 OF THE RL02, FOR STAND-ALONE BOOT.						
;						
; THIS BOOT BLOCK READS SCREENS 40-47 OF THE 'FORTH.DAT' FILE.						
; WHEN THE LOADER EXECUTES IT READS IN THE BINARY IMAGE (STARTING AT						
; 1000 OCTAL) AND BRANCHES TO ADDRESS 1000 TO START EXECUTION OF THE						
; LOADED PROGRAM.						
;						
.ASECT						
.=0						
ORIGIN: NOP						
BR BOOTRL						
.=ORIGIN+4						
.WORD ERROR ; TIME OUT / BUS ERROR VECTOR						
.WORD 343 ; FLAG (WHICH HALT)						
.=ORIGIN+10						
.WORD ERROR ; RESERVED INSTRUCTION VECTOR						
.WORD 344 ; FLAG (WHICH HALT)						
.WORD DEBUG ; EXECUTE WAIT INSTRUCTION						
.WORD 340 ; SET PSW = PRIORITY 7						
.=ORIGIN+20						
.WORD WAIT ; IOT TRAP - USED FOR WAIT SUBROUTINE						
.WORD 340 ; SET PSW = PRIORITY 7						
.WORD ERROR ; POWER FAILURE INTERRUPT VECTOR						
.WORD 345 ; FLAG (WHICH HALT)						
.=ORIGIN+30						
DEBUG: WAIT ; EMT TRAP AREA, USED AS DEBUG VECTOR						
RTI						
.=ORIGIN+34						
.WORD ERROR ; If TRAP, halt with PSW=000000						
ERROR: HALT						
.=ORIGIN+60						
.WORD ERROR ; HALT IF TERMINAL INPUT INTERRUPT						
.WORD 341 ; FLAG (WHICH HALT)						
.WORD ERROR ; HALT IF TERMINAL OUTPUT INTERRUPT						
.WORD 342 ; FLAG (WHICH HALT)						
.=ORIGIN+100						
.WORD RETURN ; IF KW11L CLOCK INTERRUPT, JUST RTI						
.WORD 340						
.WORD RETURN ; IF KW11P CLOCK INTERRUPT, JUST RTI						
.WORD 340						
;						
; Declarations for terminal I/O						
;						
RCSR=177560 ; Terminal receive control and status						
RBUF=177562 ; Terminal receive buffer						
XCSR=177564 ; Terminal transmit control and status						
XBUF=177566 ; Terminal transmit buffer						
;						
; Declarations for RL02 Disk Controller						
;						
RLCS=174400						
RLBA=174402						
RLDA=174404						
RLMP=174406						
BOOTRL:						
MOV #RLCS,R0						
;						
; GET STATUS						
;						
MOV #13,4(R0) ; RLDA SETUP FOR GET STATUS						

