

00000000	01111111	1112222222222333	33333334444444445555555556666666667777777778
12345678	90123456	7890123456789012	34567890123456789012345678901234567890
<pre> ; ;  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 </pre>			

