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C20A:      219 *
C20A:      220 * EXIT. EITHER EXIT WITH OR WITHOUT
C20A:      221 * ENABLING I/O SPACE.
C20A:      222 *
C20A:      223 F.RETURN EQU *
C20A:28      224      PLP          ;GET PRIOR I/O DISABLE
C20B:30 03   C210 225 F.RET2 BMI F.RET1 ;=>LEAVE IT DISABLED
C20D:4C C5 FE 226      JMP FUXCEKIT ;=>EXIT & ENABLE I/O
C210:4C C8 FE 227 F.RET1 JMP FUXCEKIT+3 ;EXIT DISABLED
C213:      228 *
C213:      229 * Do BOUT, ESCFIX, BASCALC, and KEYIN immediately
C213:      230 * to avoid destroying Accumulator.
C213:      231 *
C213:88      232 DISPATCH DEY
C214:30 BA   C1D0 233      BMI F.BOUT ;code 0 = 80 column output
C216:88      234      DEY
C217:30 A5   C1BE 235      BMI B.ESCFIX ;code 1 = ESCFIX
C219:88      236      DEY
C21A:30 9A   C1B6 237      BMI F.BASCALC ;code 2 = BASCALC
C21C:88      238      DEY
C21D:30 3D   C25C 239      BMI R.KEYIN ;code 3 = KEYIN
C21F:88      240      DEY
C220:30 E2   C204 241      BMI F.VTABZ ;code 4 = VTABZ
C222:      242 *
C222:      243 * First push address of generic return routine
C222:      244 *
C222:A9 C2    245      LDA #<F.RETURN ;return to F.RETURN
C224:48      246      PHA
C225:A9 09    247      LDA #>F.RETURN-1
C227:48      248      PHA
C228:      249 *
C228:      250 * If any of 5 bits in $4FB (MODE) is on, then the mode is not
C228:      251 * valid for video firmware. Use old routines.
C228:      252 *
C228:AD FB 04 253      LDA MODE ;no, is mode valid?
C228:29 D6    254      AND #M.PASCAL+M.6+M.4+M.2+M.1
C22D:00 0D   C23C 255      BNE GETFUNC ;=>no, use 40 column routines
C22F:98      256      TYA ;80 column routines in
C230:18      257      CLC ;2nd half of table
C231:69 0C    258      ADC #TABLEN
C233:48      259      PHA
C234:20 50 C8 260      JSR CSETUP ;set up 80 column cursor
C237:20 FE CD 261      JSR VTAB ;calc base
C23A:68      262      PLA
C23B:A8      263      TAY ;restore Y
C23C:      264 *
C23C:      265 * Now push address of routine
C23C:      266 *
C23C:A9 C1    267 GETFUNC LDA #<BFUNC PG ;stuff routine address
C23E:48      268      PHA
C23F:B9 44 C2 269      LDA F.TABLE,Y
C242:48      270      PHA
C243:      271 *
C243:      272 * RTS goes to routine on stack. When the routine

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C243:      273 * does an RTS, it returns to F.RETURN, which restores
C243:      274 * the INTCKROM status and returns.
C243:      275 *
C243:60      276      RTS
C244:      277 *
C244:      278 * Table of routines to call. All routines are
C244:      279 * in the $C100 page. These are low bytes only.
C244:      280 *
C244:      281 F.TABLE EOU *
C244:18      282      DFB #>F.HOME-1 ;(5) 40 column HOME
C245:22      283      DFB #>F.SCROLL-1 ;(6) 40 column scroll
C246:F1      284      DFB #>F.CLREOL-1 ;(7) 40 column clear line
C247:5F      285      DFB #>F.CLREOLZ-1 ;(8) 40 column clear with Y set
C248:75      286      DFB #>B.RESET-1 ;(9) 40/80 column reset
C249:02      287      DFB #>F.CLREOP-1 ;(A) 40 column clear end of page
C24A:A8      288      DFB #>F.RDKEY-1 ;(B) readkey w/flashing checkerboard
C24B:51      289      DFB #>F.SETWWD-1 ;(C) Set 40 column window
C24C:E1      290      DFB #>GOMINI-1 ;(D) Mini-assembler
C24D:94      291      DFB #>F.QUIT-1 ;(E) quit before IN#0,PR#0
C24E:E8      292      DFB #>FIXPICK-1 ;(F) fix pick for 80 columns
C24F:D5      293      DFB #>MNNDX-1 ;(10) calc mnemonic index
C250:      294 *
C250:      295 TABLEN EOU *-F.TABLE
C250:      296 *
C250:78      297      DFB #>B.HOME-1 ;(11) 80 column HOME
C251:64      298      DFB #>B.SCROLL-1 ;(12) 80 column scroll
C252:67      299      DFB #>B.CLREOL-1 ;(13) 80 column clear line
C253:6A      300      DFB #>B.CLREOLZ-1 ;(14) 80 column clear with Y set
C254:75      301      DFB #>B.RESET-1 ;(15) 40/80 column reset
C255:6F      302      DFB #>B.CLREOP-1 ;(16) 80 column clear end of page
C256:78      303      DFB #>B.RDKEY-1 ;(17) readkey w/inverse cursor
C257:72      304      DFB #>B.SETWWD-1 ;(18) 40/80 column VTAB
C258:E1      305      DFB #>GOMINI-1 ;(19) Mini-Assembler
C259:89      306      DFB #>B.QUIT-1 ;(1A) quit before IN#0,PR#0
C25A:E8      307      DFB #>FIXPICK-1 ;(1B) fix pick for 80 columns
C25B:D5      308      DFB #>MNNDX-1 ;(1C) calc mnemonic index
C25C:      309 *
C25C:      310 B.KEYIN EOU *
C25C:2C 1F C0 C25C 311      BIT RD8OVID ;80 columns?
C25F:10 06   C267 312      BPL B.KEYINI ;=>no, flash the cursor
C261:20 74 C8 313      JSR BIN ;get a keystroke
C264:4C 0A C2 314 GOF.RET JMP F.RETURN ;and return
C267:      315 *
C267:A8      316 B.KEYINI TAY ;preserve A
C268:8A      317      TXA ;put X on stack
C269:48      318      PHA
C26A:98      319      TYA ;restore A
C26B:48      320      PHA ;save char on stack
C26C:48      321      PHA ;dummy for cursor/char test
C26D:      322 *
C26D:68      323 NEW.CUR PLA ;get last cursor
C26E:C9 FF    324      CMF #SFF ;was it checkerboard?
C270:F0 04   C276 325      BEQ NEW.CURL ;=>yes, get old char

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