```
  3  ************************************************************************** 00030000
  4  *                                                                      *  00040000
  5  *    THIS MICRO CODE HAS BEEN MODIFIED TO CONTAIN CORRECTIONS OR       *  00050000
  6  *    ADDITIONS FROM FUS ROS ORDER 2.  THE CORRECTIONS WILL BE IN FSU ROS* 00060000
  7  *    ORDER 3.   THE ADDITIONS OR CORRECTIONS MADE ARE:                 *  00070000
  8  *       1.   ALWAYS GIVE DEVICE NOT PRESENT ERROR CODE FOR DEVICE ADDRESS* 00080000
  9  *            TWO AND THREE.                                            *  00090000
 10  *       2.   IN KEYBOARD SUPPORT FOR COMMUNICATIONS, NOW CHECK FOR TP  *  00100000
 11  *            LONG SPACE INTERRUPT MORE OFTEN THEN BEFORE.              *  00110000
 12  *       3.   FOR APL, SYSTEM ATTENTION FLAG IS CLEARED (POINTED TO BY  *  00120000
 13  *            ADDRESS IN @APLATTN) IF A DATA KEY IS PRESSED AFTER ATTN KEY* 00130000
 14  *            HAS BEEN PRESSED. CHANGE WAS MADE IN KEYBOARD SUPPORT.    *  00140000
 15  *       4.   KEYWORD SEARCH IS NOT PERFORMED IF ADDRESS FIELD FOR KEYWORD* 00150000
 16  *            TABLE IN IOB IS X'00'.  THIS CHANGE WAS MADE IN KEYBOARD  *  00160000
 17  *            SUPPORT.                                                  *  00170000
 18  *       5.   CLEAR RAMP PRINTER HEAD FLAG ON SENSE COMMAND TO PRINTER. *  00180000
 19  *            THIS CHANGE WAS MADE IN PRINTER SUPPORT OF IOS.           *  00190000
 20  *                                                                      *  00200000
 21  *       6.   OVERSTRIKE CODE WAS MODIFIED SO THAT THE OVERSTRIKE TABLE *  00210000
 22  *            CAN BE IN EMERALD ROS OR RESIDENT IN RAM.  IF THE RWPATCH *  00220000
 23  *            FLAG IS ON, IT INDICATES THAT OVERSTRIKE CHARACTER CHECKING* 00230000
 24  *            SHOULD BE DONE USING A TABLE RESEDENT IN RAM RATHER THAN  *  00240000
 25  *            USING THE EMERALD ROS TABLE.  @KBDTABL CONTAINS ADDRESS OF*  00250000
 26  *            KEYBOARD TRANSLATE TABLE IN RAM.  OVERSTRIKE TABLE IS 256 *  00260000
 27  *            BYTES BEYOND THIS ADDRESS. CHANGE IS IN KEYBOARD SUPPORT. *  00270000
 28  *                                                                      *  00280000
 29  ************************************************************************** 00290000
 31  ************************************************************************** 00310000
 32  *                                                                      *  00320000
 33  * MODULE NAME ...... IOSKBD    CONTAINS MODIFICATIONS FOR FSU 3 ROS    *  00330000
 34  *             .                 ORDER ********************************* *  00340000
 35  * DESCRIPTIVE NAME . APPLICATION INPUT/OUTPUT ROOT MODULE              *  00350000
 36  *                                                                      *  00360000
 37  * COPYRIGHT ........                                                   *  00370000
 38  *                                                                      *  00380000
 39  * STATUS ...........                                                   *  00390000
 40  *                                                                      *  00400000
 41  * FUNCTION ......... DETERMINE THE DEVICE BEING REQUESTED FOR AN       *  00410000
 42  *                    I/O OPERATION, AND THEN BRANCHING TO THE          *  00420000
 43  *                    APPROIATE APPLICATION I/O ROUTINE TO HANDLE       *  00430000
 44  *                    THE REQUEST.                                      *  00440000
 45  *                                                                      *  00450000
 46  * NOTES ............                                                   *  00460000
```

DE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM H V 05 18.09 04/12/76

```
                        47  *                                                      *  00470000
                        48  *      DEPENDENCIES ...                                 *  00480000
                        49  *                                                      *  00490000
                        50  *      RESTRICTIONS ...                                 *  00500000
                        51  *                                                      *  00510000
                        52  * MODULE TYPE ......  PALM MICRO CODE                   *  00520000
                        53  *                                                      *  00530000
                        54  *    MODULE SIZE ....                                  *  00540000
                        55  *                                                      *  00550000
                        56  *      ATTRIBUTES .....                                *  00560000
                        57  *                                                      *  00570000
                        58  * ENTRY POINT ......  IOSKBD                            *  00580000
                        59  *                                                      *  00590000
                        60  *    PURPOSE ........  INTERFACE BETWEEN HARDWARD AND INTERPRETERS  *  00600006
                        61  *                                                      *  00610000
                        62  *    LINKAGE ........  CALLERS RETURN IS IN R2L0         *  00620000
                        63  *                                                      *  00630000
                        64  * INPUT ...........   REGISTER 3 OF LEVEL 0 (R3L0) CONTAINS THE  *  00640000
                        65  *                     ADDRESS OF THE I/O PARAMETER BLOCK.  *  00650000
                        66  *                                                      *  00660000
                        67  *                     THE PARAMETER BLOCK VARIES IN SIZE DEPENDING  *  00670000
                        68  *                     ON THE DEVICE.  THE CONTENTS OF THE I/O  *  00680000
                        69  *                     PARAMETER BLOCK FOR A PARTICULAR DEVICE IS  *  00690000
                        70  *                     DESCRIBED IN THE PROLOGUE FOR THE ROUTINE THAT  *  00700000
                        71  *                     SUPPORTS THAT DEVICE.             *  00710000
                        72  *                                                      *  00720000
                        73  *                     THIS ROUTINE USES THE FIRST BYTE OF THE I/O  *  00730000
                        74  *                     PARAMETER BLOCK TO DETERMINE WHICH I/O DEVICE  *  00740000
                        75  *                     IS BEING USED.                    *  00750000
                        76  *                                                      *  00760000
                        77  * OUTPUT ..........   THE REQUESTED I/O OPERATION IS ACCOMPLISHED.  *  00770000
                        78  *                                                      *  00780000
                        79  * EXIT - NORMAL ....  IOCRT000 - CRT REQUEST            *  00790000
                        80  *                     IOROS000 - ROS LOADER REQUEST      *  00800000
                        81  *                     IOKB0000 - KEYBOARD REQUEST        *  00810000
                        82  *                     IOPTR000 - PRINTER REQUEST         *  00820000
                        83  *                     IOTP1000 - TAPE REQUEST            *  00830000
                        84  *                                                      *  00840000
                        85  *                                                      *  00850000
                        86  *                                                      *  00860000
                        87  * EXIT - ERROR .....                                    *  00870000
                        88  *                                                      *  00880000
                        89  * EXTERNAL REF .....                                    *  00890000
                        90  *                                                      *  00900000
                        91  *    ROUTINES .......                                   *  00910000
                        92  *                                                      *  00920000
                        93  *    DATA AREAS .....                                   *  00930000
                        94  *                                                      *  00940000
                        95  * TABLES ...........                                    *  00950000
                        96  *                                                      *  00960000
                        97  * MACROS ...........                                    *  00970000
                        98  *                                                      *  00980000
                        99  * CHANGE ACTIVITY ..                                    *  00990000
                       100  *                                                      *  01000000
                       101  *****************************)  **********************************  01010000
```

```
                     103  *************************************************************************  01030000
                     104  *                                                                     *  01040000
                     105  * LOW CORE AREA DEFINITION EQUATES.                                   *  01050000
                     106  *                                                                     *  01060000
                     107  * THESE LABELS DEFINE THE LAYOUT OF THE LOW-ORDER 512 BYTES OF PALM   *  01070000
                     108  * IV DIRECT ADDRESSABLE CORE MEMORY.                                  *  01080000
                     109  *                                                                     *  01090000
                     110  *************************************************************************  01100000
                     111  IOSKBD    LOCOR                                                           01110000
                     112+IOSKBD    START X'0000'              MODULE START ADDRESS                   01-LOCOR
             00000   113+@0000     EQU   *                   REQUIRED BASE REFERENCE FOR MACROS      01-LOCOR


                     115+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
                     116+*                     LEVEL - 0    REGISTERS ADDRESSES                  *
                     117+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

             00000   119+@R0L0    EQU   X'0000'+@0000       ADDR OF REG 0 LEVEL 0                   01-LOCOR
             00002   120+@R1L0    EQU   X'0002'+@0000       ADDR OF REG 1 LEVEL 0                   01-LOCOR
             00004   121+@R2L0    EQU   X'0004'+@0000       ADDR OF REG 2 LEVEL 0                   01-LOCOR
             00006   122+@R3L0    EQU   X'0006'+@0000       ADDR OF REG 3 LEVEL 0                   01-LOCOR
             00008   123+@R4L0    EQU   X'0008'+@0000       ADDR OF REG 4 LEVEL 0                   01-LOCOR
             0000A   124+@R5L0    EQU   X'000A'+@0000       ADDR OF REG 5 LEVEL 0                   01-LOCOR
             0000C   125+@R6L0    EQU   X'000C'+@0000       ADDR OF REG 6 LEVEL 0                   01-LOCOR
             0000E   126+@R7L0    EQU   X'000E'+@0000       ADDR OF REG 7 LEVEL 0                   01-LOCOR
             00010   127+@R8L0    EQU   X'0010'+@0000       ADDR OF REG 8 LEVEL 0                   01-LOCOR
             00012   128+@R9L0    EQU   X'0012'+@0000       ADDR OF REG 9 LEVEL 0                   01-LOCOR
             00014   129+@RAL0    EQU   X'0014'+@0000       ADDR OF REG A LEVEL 0                   01-LOCOR
             00016   130+@RBL0    EQU   X'0016'+@0000       ADDR OF REG B LEVEL 0                   01-LOCOR
             00018   131+@RCL0    EQU   X'0018'+@0000       ADDR OF REG C LEVEL 0                   01-LOCOR
             0001A   132+@RDL0    EQU   X'001A'+@0000       ADDR OF REG D LEVEL 0                   01-LOCOR
             0001C   133+@REL0    EQU   X'001C'+@0000       ADDR OF REG E LEVEL 0                   01-LOCOR
             0001E   134+@RFL0    EQU   X'001E'+@0000       ADDR OF REG F LEVEL 0                   01-LOCOR


                     136+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
                     137+*                     LEVEL - 1    REGISTERS ADDRESSES                  *
                     138+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

             00020   140+@R0L1    EQU   X'0020'+@0000       ADDR OF REG 0 LEVEL 1                   01-LOCOR
             00022   141+@R1L1    EQU   X'0022'+@0000       ADDR OF REG 1 LEVEL 1                   01-LOCOR
             00024   142+@R2L1    EQU   X'0024'+@0000       ADDR OF REG 2 LEVEL 1                   01-LOCOR
             00026   143+@R3L1    EQU   X'0026'+@0000       ADDR OF REG 3 LEVEL 1                   01-LOCOR
             00028   144+@R4L1    EQU   X'0028'+@0000       ADDR OF REG 4 LEVEL 1                   01-LOCOR
             0002A   145+@R5L1    EQU   X'002A'+@0000       ADDR OF REG 5 LEVEL 1                   01-LOCOR
             0002C   146+@R6L1    EQU   X'002C'+@0000       ADDR OF REG 6 LEVEL 1                   01-LOCOR
             0002E   147+@R7L1    EQU   X'002E'+@0000       ADDR OF REG 7 LEVEL 1                   01-LOCOR
             00030   148+@R8L1    EQU   X'0030'+@0000       ADDR OF REG 8 LEVEL 1                   01-LOCOR
             00032   149+@R9L1    EQU   X'0032'+@0000       ADDR OF REG 9 LEVEL 1                   01-LOCOR
             00034   150+@RAL1    EQU   X'0034'+@0000       ADDR OF REG A LEVEL 1                   01-LOCOR
             00036   151+@RBL1    EQU   X'0036'+@0000       ADDR OF REG B LEVEL 1                   01-LOCOR
             00038   152+@RCL1    EQU   X'0038'+@0000       ADDR OF REG C LEVEL 1                   01-LOCOR
             0003A   153+@RDL1    EQU   X'003A'+@0000       ADDR OF REG D LEVEL 1                   01-LOCOR
             0003C   154+@REL1    EQU   X'003C'+@0000       ADDR OF REG E LEVEL 1                   01-LOCOR
             0003E   155+@RFL1    EQU   X'003E'+@0000       ADDR OF REG F LEVEL 1                   01-LOCOR
```

                    157+* *
                    158+*   LEVEL - 2   REGISTERS ADDRESSES   *
                    159+* *
      00040   161+@R0L2   EQU   X'0040'+@0000   ADDR OF REG 0 LEVEL 2   01-LOCOR
      00042   162+@R1L2   EQU   X'0042'+@0000   ADDR OF REG 1 LEVEL 2   01-LOCOR
      00044   163+@R2L2   EQU   X'0044'+@0000   ADDR OF REG 2 LEVEL 2   01-LOCOR
      00046   164+@R3L2   EQU   X'0046'+@0000   ADDR OF REG 3 LEVEL 2   01-LOCOR
      00048   165+@R4L2   EQU   X'0048'+@0000   ADDR OF REG 4 LEVEL 2   01-LOCOR
      0004A   166+@R5L2   EQU   X'004A'+@0000   ADDR OF REG 5 LEVEL 2   01-LOCOR
      0004C   167+@R6L2   EQU   X'004C'+@0000   ADDR OF REG 6 LEVEL 2   01-LOCOR
      0004E   168+@R7L2   EQU   X'004E'+@0000   ADDR OF REG 7 LEVEL 2   01-LOCOR
      00050   169+@R8L2   EQU   X'0050'+@0000   ADDR OF REG 8 LEVEL 2   01-LOCOR
      00052   170+@R9L2   EQU   X'0052'+@0000   ADDR OF REG 9 LEVEL 2   01-LOCOR
      00054   171+@RAL2   EQU   X'0054'+@0000   ADDR OF REG A LEVEL 2   01-LOCOR
      00056   172+@RBL2   EQU   X'0056'+@0000   ADDR OF REG B LEVEL 2   01-LOCOR
      00058   173+@RCL2   EQU   X'0058'+@0000   ADDR OF REG C LEVEL 2   01-LOCOR
      0005A   174+@RDL2   EQU   X'005A'+@0000   ADDR OF REG D LEVEL 2   01-LOCOR
      0005C   175+@REL2   EQU   X'005C'+@0000   ADDR OF REG E LEVEL 2   01-LOCOR
      0005E   176+@RFL2   EQU   X'005E'+@0000   ADDR OF REG F LEVEL 2   01-LOCOR

                    178+* *
                    179+*   LEVEL - 3   REGISTERS ADDRESSES   *
                    180+* *
      00060   182+@R0L3   EQU   X'0060'+@0000   ADDR OF REG 0 LEVEL 3   01-LOCOR
      00062   183+@R1L3   EQU   X'0062'+@0000   ADDR OF REG 1 LEVEL 3   01-LOCOR
      00064   184+@R2L3   EQU   X'0064'+@0000   ADDR OF REG 2 LEVEL 3   01-LOCOR
      00066   185+@R3L3   EQU   X'0066'+@0000   ADDR OF REG 3 LEVEL 3   01-LOCOR
      00068   186+@R4L3   EQU   X'0068'+@0000   ADDR OF REG 4 LEVEL 3   01-LOCOR
      0006A   187+@R5L3   EQU   X'006A'+@0000   ADDR OF REG 5 LEVEL 3   01-LOCOR
      0006C   188+@R6L3   EQU   X'006C'+@0000   ADDR OF REG 6 LEVEL 3   01-LOCOR
      0006E   189+@R7L3   EQU   X'006E'+@0000   ADDR OF REG 7 LEVEL 3   01-LOCOR
      00070   190+@R8L3   EQU   X'0070'+@0000   ADDR OF REG 8 LEVEL 3   01-LOCOR
      00072   191+@R9L3   EQU   X'0072'+@0000   ADDR OF REG 9 LEVEL 3   01-LOCOR
      00074   192+@RAL3   EQU   X'0074'+@0000   ADDR OF REG A LEVEL 3   01-LOCOR
      00076   193+@RBL3   EQU   X'0076'+@0000   ADDR OF REG B LEVEL 3   01-LOCOR
      00078   194+@RCL3   EQU   X'0078'+@0000   ADDR OF REG C LEVEL 3   01-LOCOR
      0007A   195+@RDL3   EQU   X'007A'+@0000   ADDR OF REG D LEVEL 3   01-LOCOR
      0007C   196+@REL3   EQU•   X'007C'+@0000   ADDR OF REG E LEVEL 3   01-LOCOR
      0007E   197+@RFL3   EQU   X'007E'+@0000   ADDR OF REG F LEVEL 3   01-LOCOR

                    199+* *
                    200+*   TEMPORARY I/O WORK SPACE REGISTERS   *
                    201+*   ACCESSED WITH DIRECT LOADS & STORES   *
                    202+* *
      00080   204+@R0L4   EQU   X'0080'+@0000   ADDR OF REG 0   01-LOCOR
      00082   205+@R1L4   EQU   X'0082'+@0000   ADDR OF REG 1   01-LOCOR
      00084   206+@R2L4   EQU   X'0084'+@0000   ADDR OF REG 2   01-LOCOR
      00086   207+@R3L4   EQU   X'0086'+@0000   ADDR OF REG 3   01-LOCOR

	0008B	208+@R4L4	EQU	X'008B'+@0000	ADDR OF REG 4	01-LOCOR
	0008A	209+@R5L4	EQU	X'008A'+@0000	ADDR OF REG 5	01-LOCOR
	0008C	210+@R6L4	EQU	X'008C'+@0000	ADDR OF REG 6	01-LOCOR
	0008E	211+@R7L4	EQU	X'008E'+@0000	ADDR OF REG 7	01-LOCOR
	00090	212+@R8L4	EQU	X'0090'+@0000	ADDR OF REG 8	01-LOCOR
	00092	213+@R9L4	EQU	X'0092'+@0000	ADDR OF REG 9	01-LOCOR
	00094	214+@RAL4	EQU	X'0094'+@0000	ADDR OF REG A	01-LOCOR
	00096	215+@RBL4	EQU	X'0096'+@0000	ADDR OF REG B	01-LOCOR
	00098	216+@RCL4	EQU	X'0098'+@0000	ADDR OF REG C	01-LOCOR
	0009A	217+@RDL4	EQU	X'009A'+@0000	ADDR OF REG D	01-LOCOR
	0009C	218+@REL4	EQU	X'009C'+@0000	ADDR OF REG E	01-LOCOR
	0009E	219+@RFL4	EQU	X'009E'+@0000	ADDR OF REG F	01-LOCOR

```
221+***********************************************************************************
222+*                                                                               *
223+*                       SYSTEM   CONTROL   AREA                                  *
224+*                                                                               *
225+***********************************************************************************
```

000A0	227+IOBKBYTE	EQU	X'00A0'+@0000	KEYBOARD ENCODE & CTL. FLAGS	01-LOCOR

```
229+***********************************************************************************
230+*                    BITS 0 - 7 ARE ASSIGNED AS FOLLOWS:                         *
231+***********************************************************************************
```

00080	233+HOLD	EQU	X'80'	HOLD KEY FLAG	FLAG *	01-LOCOR
	234+*	EQU	X'40'	RESERVED	FLAG *	
00020	235+AUTO	EQU	X'20'	TYPOMATIC KEYBOARD MODE	FLAG *	01-LOCOR
	236+*	EQU	X'10'	RESERVED	FLAG *	
	237+*	EQU	X'08'	RESERVED	FLAG *	
	238+*	EQU	X'04'	RESERVED	FLAG *	
00002	239+DATAKEY	EQU	X'02'	DATA KEY CODE PRESENT FLAG	FLAG *	01-LOCOR
00001	240+OVERRUN	EQU	X'01'	KEYBOARD OVERRUN	FLAG *	01-LOCOR

```
242+***********************************************************************************
243+*                    BITS 8 - 15 CONTAIN THE DATA KEY CODE                       *
244+***********************************************************************************
```

00A2	246+IOFLAGS	EQU	X'00A2'+@0000	MISC. I/O FLAGS AND SWITCHES	01-LOCOR

```
248+***********************************************************************************
249+*                    BITS 0 - 7 ARE ASSIGNED AS FOLLOWS:                         *
250+***********************************************************************************
```

00080	252+FSUINTRP	EQU	X'80'	INTERRUPT FOR FSU WHILE EXEC IN RAM	FLAG *	01-LOCOR
	253+*	EQU	X'40'	RESERVED	FLAG *	
00020	254+TPAINTRP	EQU	X'20'	LEVEL 1 INTERRUPT FOR COMMUNICATIONS	FLAG *	01-LOCOR
00010	255+TPACTIVE	EQU	X'10'	LEVEL 1 COMMUNICATIONS FEATURE ACTIVE	FLAG *	01-LOCOR
	256+*	EQU	X'08'	RESERVED	FLAG *	
	257+*	EQU	X'04'	RESERVED	FLAG *	

	256+*	EQU	X'02'	RESERVED	FLAG *	
00001	259+RWPATCH	EQU	X'01'	KBD ENCODE TABLE PATCH IN R/W STORAGE	FLAG *	01-LOCOR
	261+**					
	262+*			BITS 8 - 15 ARE ASSIGNED AS FOLLOWS:		
	263+**					
00080	265+SELCTERR	EQU	X'80'	DEVICE NOT SELECTED ERROR FLAG	FLAG *	01-LOCOR
00040	266+INVSUBDV	EQU	X'40'	INVALID SUBDEVICE ERROR FLAG	FLAG *	01-LOCOR
00020	267+DVNOTPRS	EQU	X'20'	DEVICE NOT PRESENT ERROR FLAG	FLAG *	01-LOCOR
	268+*	EQU	X'10'	RESERVED	FLAG *	
	269+*	EQU	X'08'	RESERVED	FLAG *	
00004	270+SHORTRMP	EQU	X'04'	SHORT RAMP FOR PRINTER FLAG	FLAG *	01-LOCOR
00002	271+IOSKBTO	EQU	X'02'	IOS KBD TIME OUT FLAG. ON = KBD T.O.	FLAG *	01-LOCOR
00001	272+LVL3CALL	EQU	X'01'	LEVEL 3 KBD CALL TO PRINT CRT CODE	FLAG *	01-LOCOR
	273+**					
000A4	275+IOBFLAGS	EQU	X'00A4'+@0000	MISCELLEANEOUS FLAGS AND SWITCHES		01-LOCOR
	277+**					
	278+*			BITS 0 - 7 ARE ASSIGNED AS FOLLOWS:	*	
	279+**					
00080	281+SYSATTN	EQU	X'80'	SYSTEM ATTENTION FLAG	FLAG *	01-LOCOR
00040	282+IOACTIVE	EQU	X'40'	IOACTIVE.ON = KEYBOARD SETS 'HOLDPEND'	FLAG *	01-LOCOR
00020	283+HOLDPEND	EQU	X'20'	HOLD FUNCTION PENDING FLAG	FLAG *	01-LOCOR
00010	284+CRTSTATS	EQU	X'10'	CRT STATUS. ON = CRT TURNED ON	FLAG *	01-LOCOR
00008	285+TPAIOLS	EQU	X'08'	TELEPROCSSING LONG SPACE	FLAG *	01-LOCOR
00004	286+COREDUMP	EQU	X'04'	STORAGE DUMP FLAG	FLAG *	01-LOCOR
00002	287+DIAGCTL	EQU	X'02'	DIAGNOSTIC CONTROL FLAG	FLAG *	01-LOCOR
00001	288+DIAGHALT	EQU	X'01'	DIAGNOSTIC HALT FLAG	FLAG *	01-LOCOR
	290+**					
	291+*			BITS 8 - 15 ARE ASSIGNED AS FOLLOWS:	*	
	292+**					
00080	294+SYSFLAG	EQU	X'80'	ON = APL MODE, OFF = BASIC MODE	FLAG *	01-LOCOR
00040	295+RAMEXEC	EQU	X'40'	PROGRAM EXECUTING IN RAM FLAG	FLAG *	01-LOCOR
00020	296+RAMINTRP	EQU	X'20'	TOGGLE TO EXEC IN RAM:KEY BOARD FLAG	FLAG *	01-LOCOR
	297+*	EQU	X'10'	** AVILABLE **	FLAG *	
00008	298+PRNTRWRT	EQU	X'08'	WRITE TO PRINTER HAS OCCURRED IF ON.	FLAG *	01-LOCOR
00004	299+IOSUPERV	EQU	X'04'	IF ON, I/O SUPERVISOR IN CONTROL	FLAG *	01-LOCOR
00002	300+TPKBFTCH	EQU	X'02'	KEYBOARD FETCH FOR TELEPROC FLAG	FLAG *	01-LOCOR
00001	301+DIAGKBD	EQU	X'01'	DIAGNOSTIC HAS KEYBOARD ENCODE SUPPRT	FLAG *	01-LOCOR
	302+**					
000A0	304+ZERO	EQU	X'00A0'+@0000	CONSTANT VALUE ZERO		01-LOCOR
000A8	305+CORESIZE	EQU	X'00A8'+@0000	MEMEORY SIZE FOR SYSTEM		01-LOCOR
000AA	306+PTCHSIZE	EQU	X'00AA'+@0000	CORE SIZE PRIOR TO PATCH IMF		01-LOCOR
000AC	307+IOPARM@S	EQU	X'00AC'+@0000	I/O PARAMETER ADDRESS SAVE	SAVE	01-LOCOR
	308+***	EQU	X'00AE'+@0000	** AVALIABLE **		

```
                    310+*                          TRANSFER VECTOR TABLE ADDRESSES


      000B0         312+@CRTCLR  EQU    X'00B0'+@0000    @ OF CLEAR CRT BUFFER ROUTINE        DCP  01-LOCOR
                    313+***      EQU    X'00B2'+@0000        ** AVALIABLE **
      000B4         314+@CRTERR  EQU    X'00B4'+@0000    @ OF DISPLAY ERROR CODE ROUTINE      DCP  01-LOCOR

      000B6         316+@DV01IOC EQU    X'00B6'+@0000    ENTRY POINT FOR IPL TABLE; ROS       DV-1 01-LOCOR
      000B6         317+@ROSFCH  EQU    @DV01IOC         FETCH & IPL LOOP TESTS.              BTV  01-LOCOR

      000B8         319+@DIAGCTL EQU    X'00B8'+@0000    ENTRY ADDRESS FOR DIAG CONTROL       BTV  01-LOCOR
      000BA         320+IOSELRTN EQU    X'00BA'+@0000    @ OF I/O DEVICE/SUBDEVICE SELECT     SEL@ 01-LOCOR
                    321+***      EQU    X'00BC'+@0000    ROSADRTS   * NOT USED *              IPL@
      000BE         322+IOSLNKSV EQU    X'00BE'+@0000    IOS SAVE AREA FOR LINK REGISTER      SAVE 01-LOCOR


      000C0         324+@KBPCRT  EQU    X'00C0'+@0000    IOS KBD ENTRY  *PRINT COPY*   BTV   IOS@ 01-LOCOR
      000C2         325+@IOSUPVR EQU    X'00C2'+@0000    ADDRESS OF I/O SUPERVISOR ENTRY      BTV  01-LOCOR
      000C4         326+RAM@SAVE EQU    X'00C4'+@0000    SAVE AREA FOR RAMADDR SWITCH ADDR    SAVE 01-LOCOR

      000C6         328+@DV05IOC EQU    X'00C6'+@0000                                         DV-5 01-LOCOR
      000C6         329+@PRNTIOC EQU    @DV05IOC         ADDRESS OF PRINTER I/O CODE          BTV  01-LOCOR

      000C8         331+@PRNTCRT EQU    X'00C8'+@0000    LEVEL-3 ENTRY  *PRINT COPY*   BTV   IOS@ 01-LOCOR

      000CA         333+@DV0EIOC EQU    X'00CA'+@0000                                         DV-E 01-LOCOR
      000CA         334+@TAPEIOC EQU    @DV0EIOC         TAPEI/O CODE ADDRESS                 BTV  01-LOCOR

      000CC         336+@DUMPCOR EQU    X'00CC'+@0000    @ OF DUMP CORE ROUTINE               @    01-LOCOR
      000CE         337+@APLATTN EQU    X'00CE'+@0000    @ WHERE ATTENTION IS SET FOR APL     APL@ 01-LOCOR


                    339+***      EQU    X'00D0'+@0000    OPCODTST   * NOT USED *              IPL@
                    340+***      EQU    X'00D2'+@0000    CORETEST   * NOT USED *              IPL@
      000D4         341+ROS@SAVE EQU    X'00D4'+@0000    SAVE AREA FOR ROSADDR SWITCH ADDR    SAVE 01-LOCOR

      000D6         343+@DV02IOC EQU    X'00D6'+@0000    NOT USED       (MFG. TEST EQUPT)     DV-2 01-LOCOR
      000D8         344+@DV03IOC EQU    X'00D8'+@0000    NOT USED       (SPECIAL DEVICE)      DV-3 01-LOCOR

      000DA         346+@DV06IOC EQU    X'00DA'+@0000    ADDRESS FOR DEVICE 06                DV-6X01-LOCOR
                       +                                 NOT CURRENTLY USED                   BTV
      000DC         347+@DV07IOC EQU    X'00DC'+@0000    ADDRESS FOR DEVICE 07                DV-7X01-LOCOR
                       +                                 NOT CURRENTLY USED                   BTV
      000DE         348+@DV09IOC EQU    X'00DE'+@0000    RESERVED I/O CODE ADDRESS            DV-9X01-LOCOR
                       +                                 NOT CURRENTLY USED                   BTV

      000E0         350+@DV0AIOC EQU    X'00E0'+@0000    SPECIAL I/O ATTACHMENTS PALM         DV-AX01-LOCOR
                       +                                 CODE IN R/W; NO SUBDEVICE SELECT     BTV
      000E2         351+@DV0BIOC EQU    X'00E2'+@0000    SPECIAL I/O ATTACHMENTS PALM         DV-BX01-LOCOR
                       +                                 CODE IN R/W; SUBDEVICE SELECTED      BTV
      000E4         352+@DV0CIOC EQU    X'00E4'+@0000    ADDRESS FOR DEVICE 0C                DV-CX01-LOCOR
                       +                                     ** RESERVED **                   BTV
      000E6         353+@DV0DIOC EQU    X'00E6'+@0000    ADDRESS FOR DEVICE 0D                DV-DX01-LOCOR
```

		+			** RESERVED **	BTV	
	000E8	355+RAMADDR	EQU	X'00E8'+@0000	@ OF RAM CODE TO BE EXECUTED.	SW	01-LOCOR
	000EA	356+RAMTOROS	EQU	X'00EA'+@0000	@ OF TOGGLE RETURN TO FSU ROS	SW	01-LOCOR
	000EC	357+ROSTORAM	EQU	X'00EC'+@0000	@ OF TOGGLE INSTRUCTION: (RAM)	SW	01-LOCOR
	000EE	358+ROSADDR	EQU	X'00EE'+@0000	@ OF FSU ROS CODE TO BE EXECUTED	SW	01-LOCOR
	000F0	360+@DV04IOC	EQU	X'00F0'+@0000		DV-4	01-LOCOR
	000F0	361+@KBDLVL3	EQU	@DV04IOC	LEVEL-3 KEYBOARD CODE ENTRY	ADR	01-LOCOR
	000F2	363+@DV08IOC	EQU	X'00F2'+@0000	COMMUMICATION I/O CODE	DV-8	01-LOCOR
	000F2	364+@TPALVL1	EQU	@DV08IOC	LEVEL-1 INTERRUPT ADDRESS (FSU)	ADR	01-LOCOR
	000F4	366+@SPCLIPL	EQU	X'00F4'+@0000	@ OF SPECIAL IPL. FROM TP TO LOCALIPL@	01-LOCOR
		367+***	EQU	X'00F6'+@0000	EMRTEST ** NOT USED **	IPL@	
	000F8	368+CHARCNT	EQU	X'00F8'+@0000	PRINTER POSITION CNT WITHIN CHAR	SAVE	01-LOCOR
	000FA	369+PPACTUAL	EQU	X'00FA'+@0000	PRINTER ACTUAL PRINT POSITION	SAVE	01-LOCOR
	000FC	370+PESTAT	EQU	X'00FC'+@0000	PRINTER LAST PRINT EMITTER STATUS	SAVE	01-LOCOR
	000FE	371+@KBTABL	EQU	X'00FE'+@0000	ADR OF KBD ENCODE/OVERSTRICK TABLE;	X01-LOCOR
		+			COMMON EMERALD ROS OR R/W PATCH.		