```
FBC0   FCF6 FCF6 FD0C
FBC6   FD0C FD00
FBCA   FD00 FC3A FC3A
FBD0   FC3A FC3A
FBD6   FC3A

       6910          WORD  IMM,DISASM2,DISASM2,DISASM2,DISASM2,DISASM2

       6920       *
FBDA 2CE0 F4AB 6930 DISASM  XOP   @MESS03+1,3        PRINT INDENTATION
FBDE C08C      6940         MOV   R12,R2             PRINT ADDRESS
FBE0 06A0 F5D6 6950         BL    @HEXOUT0
FBE4 C17C      6960         MOV   *R12^,R5           R5:=OPCODE
FBE6 C085      6970         MOV   R5,R2              PRINT OPCODE
FBE8 06A0 F5D2 6980         BL    @HEXOUT
FBEC C1B5      6990         MOV   R5,R6
FBEE 09Cb      7000         SRL   R6,12
FBF0 1605      7010         JNE   DISASM1
FBF2 C1B5      7020         MOV   R5,R6
FBF4 0976      7030         SRL   R6,7
FBF6 C02b FHBA 7040         MOV   @COATAB(R6),R0
FBFA 0450      7050         B     *R0
FBFC 0286 0003 7060 DISASM1 CI    R6,#0003
FC00 1B2A      7070         JH    CODE4
FC02 0286 0002 7080         CI    R6,#0002
FC06 141A      7090         JHE   CODE2
       7100       *
FC08 C005      7110         MOV   R5,R0
FC0A 0240 0F00 7120         ANDI  R0,#0F00
FC0E 0960      7130         .SRL  R0.6
FC10 0220 F70A 7140         AI    R0,TYPE4
FC14 06A0 FD8C 7150         BL    @PMNEM
FC1B C085      7160         MOV   R5,R2
FC1A 0242 00FF 7170         ANDI  R2,#00FF
FC1E 0285 1D00 7180         CI    R5,#1D00
FC22 1407      7190         JHE   CODE100
FC24 0282 0080 7200         CI    R2,#0080
FC28 1A02      7210         JL    CODE101
FC2A 0262 FF00 7220         ORI   R2,#FF00
FC2E 0A12      7230 CODE101 SLA   R2,1
FC30 A08C      7240         A     R12,R2
FC32 2CE0 F4C7 7250 CODE100 XOP   @HASH,3            PRINT "#"
FC36 06A0 F5D6 7260         BL    @HEXOUT0
FC3A 2C40      7270 DISASM2 XOP   R0,1               RETURN
       7280       *
FC3C C1B5      7290 CODE2   MOV   R5,R6
FC3E 0246 1C00 7300         ANDI  R6,#1C00
FC42 098b      7310         SRL   R6,8
FC44 C00b      7320         MOV   R6,R0
FC46 0220 F6AA 7330         AI    R0,TYPE2
FC4A 06A0 FD8C 7340         BL    @PMNEM
FC4E 0916      7350         SRL   R6,1
FC50 C026 FHAA 7360         MOV   @C2ATAB(R6),R0
FC54 0450      7370         B     *R0
       7380       *
FC56 0A26      7390 CODE4   SLA   R6,2
```

```
7400  FC58  C006        MOV   R6,R0
7410  FC5A  0220 F66A   AI    R0,TYPE1-16
7420  FC5E  06A0 FDBC   BL    @PMNEM
7430  FC62  2C20 FD30   XOP   @SIXBITS,0
7440  FC66  2CE0 F4C9   XOP   @COMMA,3            PRINT ","
7450  FC6A  2C20 FD34   XOP   @SIXBITD,0
7460  FC6E  2C40        XOP   R0,1               RETURN
7470              *
7480  FC70  0200 F77E   CODE00  LI  R0,TYPE9
7490  FC74  06A0 FDBC   BL    @PMNEM
7500  FC78  2C40        XOP   R0,1               RETURN
7510              *
7520  FC7A  C185        CODE02  MOV  R5,R6
7530  FC7C  0246 01E0   ANDI  R6,#01E0
7540  FC80  0936        SRL   R6,3
7550  FC82  C006        MOV   R6,R0
7560  FC84  0220 F75A   AI    R0,TYPE6
7570  FC88  06A0 FD8C   BL    @PMNEM
7580  FC8C  0916        SRL   R6,1
7590  FC8E  C026 FBBA   MOV   @CO2ATAB(R6),R0
7600  FC92  0450        B     *R0
7610              *
7620  FC94  C005        CODE04  MOV  R5,R0
7630  FC96  0240 03C0   ANDI  R0,#03C0
7640  FC9A  0940        SRL   R0,4
7650  FC9C  0220 F6CA   AI    R0,TYPE3
7660  FCA0  06A0 FD8C   BL    @PMNEM
7670  FCA4  0285 07C0   CI    R5,#07C0
7680  FCA8  1402        JHE   CODE040
7690  FCAA  2C20 FD30   XOP   @SIXBITS,0
7700  FCAE  2C40        CODE040  XOP  R0,1       RETURN
7710              *
7720  FCB0  C005        CODE08  MOV  R5,R0
7730  FCB2  0240 0300   ANDI  R0,#0300
7740  FCB6  0960        SRL   R0,6
7750  FCB8  0220 F74A   AI    R0,TYPE5
7760  FCBC  06A0 FDBC   BL    @PMNEM
7770  FCC0  C185        MOV   R5,R6
7780  FCC2  2C20 FD14   XOP   @REG,0
7790  FCC6  2CE0 F4C9   XOP   @COMMA,3           PRINT ","
7800  FCCA  0935        SRL   R5,3
7810  FCCC  0245 001F   CFIELD  ANDI  R5,#001F
7820  FCD0  C265 F4E2   MOV   @NUMTAB(R5),R9
7830  FCD4  2CC9        XOP   R9,3               PRINTS CONSTANT FIELD
7840  FCD6  2C40        XOP   R0,1               RETURN
7850              *
7860  FCD8  2C20 FD30   DSIX  XOP  @SIXBITS,0    PRINTS SIXBIT FIELD + REGISTER
7870  FCDC  2CE0 F4C9   XOP   @COMMA,3           PRINT ","
7880  FCE0  C185        MOV   R5,R6
7890  FCE2  0966        SRL   R6,6
7900  FCE4  2C20 FD14   XOP   @REG,0
7910  FCE8  2C40        XOP   R0,1               RETURN
7920              *
```

```
7930  FCEA  2C20 FD30  KSIX     XOP   @SIXBITS,0      PRINTS SIXBIT FIELD + CONSTANT
7940  FCEE  2CE0 F4C9           XOP   @COMMA,3        PRINT ","
7950  FCF2  0955              SRL   R5,5
7960  FCF4  10EB              JMP   CFIELD
7970  *
7980  *
7990  *
8000  FCF6  C185       IMMR     MOV   R5,R6           PRINTS REGISTER NO. + IMMEADIATE OPERAND
8010  FCF8  2C20 FD14           XOP   @REG,0
8020  FCFC  2CE0 F4C9           XOP   @COMMA,3        PRINT ","
8030  FD00  2CE0 F4C7  IMM      XOP   @HASH,3         PRINT "#"
8040  FD04  C08C                MOV   *R12^,R2
8050  FD06  06A0 F5D6           BL    @HEXOUT0
8060  FD0A  2C40                XOP   R0,1            RETURN
8070  *
8080  FD0C  C185       ONER     MOV   R5,R6           PRINTS REGISTER
8090  FD0E  2C20 FD14           XOP   @REG,0
8100  FD12  2C40                XOP   R0,1            RETURN
8110  *
8120  FD14  0246 000F  REG      ANDI  R6,#000F        PRINTS REGISTER NO. E.G. R1,R10
8130  FD18  0A16                SLA   R6,1
8140  FD1A  2CE0 F4D0           XOP   @RR,3           PRINT "R"
8150  FD1E  C266 F4E2           MOV   @NUMTAB(R6),R9
8160  FD22  0286 0014           CI    R6,#14
8170  FD26  1402                JHE   REG00
8180  FD28  0249 FF00           ANDI  R9,#FF00
8190  FD2C  2CC9       REG00    XOP   R9,3
8200  FD2E  2C40                XOP   R0,1            RETURN
8210  *
8220  FD30  C185       SIXBITS  MOV   R5,R6           DECODES AND PRINTS SIXBIT SOURCE FIELD
8230  FD32  1002                JMP   SIXBIT
8240  FD34  C185       SIXBITD  MOV   R5,R6           DECODES AND PRINTS SIXBIT DEST. FIELD
8250  FD36  0966                SRL   R6,6
8260  FD38  0246 003F  SIXBIT   ANDI  R6,#003F        R6:=SIXBIT FIELD
8270  FD3C  C1C6                MOV   R6,R7
8280  FD3E  0246 000F           ANDI  R6,#000F        R6:=REGISTER
8290  FD42  0947                SRL   R7,4            R7:=ADDRESSING MODE
8300  FD44  1603                JNE   SIXBIT0
8310  FD46  2C20 FD14           XOP   @REG,0          REGISTER ADDRESSING MODE
8320  FD4A  101F                JMP   SIXBIT3
8330  FD4C  0287 0002  SIXBIT0  CI    R7,#2           SYMBOLIC ADDRESSING MODE
8340  FD50  1611                JNE   SIXBIT2
8350  FD52  2CE0 F4C6           XOP   @ATHASH,3       PRINT "@"
8360  FD56  C08C                MOV   *R12^,R2
8370  FD58  06A0 F5D6           BL    @HEXOUT0
8380  FD5C  0286 0000           CI    R6,#0000        INDEXED ADDRESSING MODE
8390  FD60  1314                JEQ   SIXBIT3
8400  FD62  0201 2800           LI    R1,'('          PRINT "("
8410  FD66  2CC1                XOP   R1,3
8420  FD68  2C20 FD14           XOP   @REG,0
8430  FD6C  0201 2900           LI    R1,')'          PRINT ")"
8440  FD70  2CC1                XOP   R1,3
8450  FD72  100B                JMP   SIXBIT3
```

```
8460  FD74  0201 2A00   SIXBIT2 LI    R1,'*'          INDIRECT REGISTER ADDRESSING MODE.
8470  FD78  2CC1                XOP   R1,3
8480  FD7A  2C20 FD14           XOP   @REG,0          AUTO INCREMENT ADDRESSING MODE;BT
8490  FD7E  0287 0003           CI    R7,#0003
8500  FD82  1603                JNE   SIXBIT3
8510  FD84  0201 2B00           LI    R1,'+'
8520  FD88  2CC1                XOP   R1,3
8530  FD8A  2C40        SIXBIT3 XOP   R0,1
8540                    *
8550  FD8C  2CE0 F4H0   PMNEM   XOP   @MESS03+6,3     SUBROUTINE TO PRINT OPCODE MNEMONIC
8560  FD90  04CA                CLR   R10
8570  FD92  C730                MOV   *R0^,R8
8580  FD94  C250                MOV   *R0,R9
8590  FD96  2CC8                XOP   R8,3
8600  FD98  2CE0 F4H1           XOP   @MESS03+7,3     PRINT " "
8610  FD9C  045B                RT                    RETURN
                       *
                       * INSTRUCTION M
                       *
8650  FD9E  4F56 4520 4259  MMESS0 TEXT 'OVE BYTES '-
8660  FDA4  5445 5320 00    MMESS1 TEXT 'TO '-
      FDA9  54 4F20 00
8670  FDAD  59 4553 204F    MMESS2 TEXT 'YES OR NO? '-
      FDB2  5220 4E4F 3F20
      FDB8  00
8680  FDB9  00              EVEN
8690  FDBA  2CE0 FD9E   MOVE    XOP   @MMESS0,3       PRINT "OVE BYTES "
8700  FDBE  06A0 F5AE           BL    @HEXIN          JNE ON HEXIN FLAG
8710  FDC2  162B                JNE   MOVE04          R8:=LOW ADDRESS
8720  FDC4  C202                MOV   R2,R8
8730  FDC6  0281 3A00           CI    R1,':'
8740  FDCA  1627                JNE   MOVE04          ERROR
8750  FDCC  06A0 F5AE           BL    @HEXIN
8760  FDD0  1624                JNE   MOVE04          JNE ON HEXIN FLAG
8770  FDD2  8088                C     R8,R2
8780  FDD4  1B22                JH    MOVE04
8790  FDD6  C1C2                MOV   R2,R7           R7:=HIGH ADDRESS
8800  FDD8  2CE0 FDA9           XOP   @MMESS1,3       PRINT " TO"
8810  FDDC  06A0 F5AE           BL    @HEXIN          JNE ON HEXIN FLAG
8820  FDE0  161C                JNE   MOVE04
8830  FDE2  C182                MOV   R2,R6
8840  FDE4  2CE0 F4AA           XOP   @MESS03,3       PRINT INDENTATION
8850  FDE8  2CE0 FDAD           XOP   @MMESS2,3       PRINT "YES OR NO?"
8860  FDEC  2C81                XOP   R1,2            GET CHARACTER
8870  FDEE  2CC1                XOP   R1,3            PRINT CHARACTER
8880  FDF0  0281 5900           CI    R1,'Y'
8890  FDF4  1610                JNE   MONOOC          RETURN TO MONITOR
8900  FDF6  8206                C     R6,R8
8910  FDF8  130E                JEQ   MONOOC
8920  FDFA  1B04                JH    MOVE01
8930  FDFC  DDRR        MOVE00  MOVB  *R8^,*R6^       LOW=DESTINATION
8940  FDFE  R1C8                C     R8,R7
8950  FE00  1B0A                JH    MONOOC          RETURN TO MONITOR
```

```
FE02  10FC          8960         JMP   MOVE00
FE04  81C6          8970  MOVE01 C     R6,R7
FE06  1BFA          8980         JH    MOVE00
FE08  6188          8990         S     R8,R6
FE0A  A187          9000         A     R7,R6
FE0C  D597          9010  MOVE02 MOVB  *R7,*R6
FE0E  0607          9020         DEC   R7
FE10  0606          9030         DEC   R6
FE12  8207          9040         C     R7,R8
FE14  14FB          9050         JHE   MOVE02
FE16  0460 F44F     9060  MONOOC B     @MON00        PRINTS " ??"
FE1A  0460 F464     9070  MOVE04 B     @MON02
                    9080  *
                    9090  * INSTRUCTION Z
                    9100  *
FE1E  4E4F 5420 464F 9110 FMESS00 TEXT 'NOT FOUND'-
FE24  554E 4400
FE28  C24F          9120  FIND   EVEN
FE28  C24F          9130  FIND   MOV   R15,R9
FE2A  C1C2          9140         MOV   R2,R7
FE2C  91F9          9150  FIND00 CB    *R9^,R7
FE2E  1604          9160         JNE   FIND01
FE30  06C7          9170         SWPB  R7
FE32  91D9          9180         CB    *R9,R7
FE34  06C7          9190         SWPB  R7
FE36  1307          9200         JEQ   FIND02
FE38  83C9          9210  FIND01 C     R9,R15
FE3A  16F8          9220         JNE   FIND00
FE3C  2CE0 F4AA     9230         XOP   @MESS03,3      PRINT INDENTATION
FE40  2CE0 FE1E     9240         XOP   @FMESS00,3     PRINT "NOT FOUND"
FE44  10E8          9250         JMP   MONOOC
FE46  2CE0 F4AA     9260  FIND02 XOP   @MESS03,3      PRINT INDENTATION
FE4A  C089          9270         MOV   R9,R2
FE4C  0602          9280         DEC   R2
FE4E  06A0 F5D6     9290         BL    @HEXOUT0       PRINT ADDRESS
FE52  C087          9300         MOV   R7,R2
FE54  06A0 F5D2     9310         BL    @HEXOUT        PRINT CONTENTS
FE58  2CE0 F4B0     9320         XOP   @MESS03+6,3    PRINT " "
FE5C  06A0 F5AE     9330         BL    @HEXIN
FE60  1606          9340         JNE   FIND03         JNE ON HEXIN FLAG
FE62  03A0          9350         WREN
FE64  DA42 FFFF     9360         MOVB  R2,@#FFFF(R9)
FE68  06C2          9370         SWPB  R2
FE6A  03A0          9380         WREN
FE6C  D642          9390         MOVB  R2,*R9
FE6E  0281 2000     9400  FIND03 CI    R1,' '
FE72  13E2          9410         JEQ   FIND01
FE74  1000          9420         JMP   MONOOC
                    9430  *
                    9440  * INSTRUCTION G
                    9450  *
FE76  16CF          9460  GO     JNE   MONOOC         JNE ON HEXIN FLAG
FE78  0452          9470         B     *R2
```

```
                                *
                                * INSTRUCTION L
                                *
FE7A  4C4F 573D 00  9510  LMESSO  TEXT  'LOW='
FE7F  00            9520          EVEN
FE80  1602          9530  LOW     JNE   LOW00            JNE ON HEXIN FLAG
FE82  C3C2          9540          MOV   R2,R15
FE84  10C8          9550          JMP   MONOOC
FE86  2CE0 F4AA     9560  LOW00   XOP   @MESSO3,3        PRINT INDENTATION
FE8A  2CE0 FE7A     9570          XOP   @LMESSO,3        PRINT "LOW="
FE8E  C0AF          9580          MOV   R15,R2           PRINT USER WORKSPACE
FE90  06A0 F5D6     9590          BL    @HEXOUTO
FE94  10C0          9600          JMP   MONOOC
                    9610  *
                    9620  * INSTRUCTION W
                    9630  *
FE96  1603          9640  WP      JNE   WP00             JNE ON HEXIN FLAG
FE98  C802 F3FA     9650          MOV   R2,@2*R13+INT1WP
FE9C  10BC          9660          JMP   MONOOC
FE9E  2CE0 F4AA     9670  WP00    XOP   @MESSO3,3        PRINT INDENTATION
FEA2  2CE0 FA81     9680          XOP   @IMESS1+2,3      PRINT "WP="
FEA6  C0A0 F3FA     9690          MOV   @2*R13+INT1WP,R2
FEAA  06A0 F5D6     9700          BL    @HEXOUTO
FEAE  10B3          9710          JMP   MONOOC
                    9720  *
                    9730  * INSTRUCTION O
                    9740  *
FEB0  C10F          9750  OUTPUT  MOV   R15,R4
FEB2  C0C3          9760          MOV   R3,R3
FEB4  1601          9770          JNE   OUTPUTO
FEB6  C102          9780          MOV   R2,R4
FEB8  0244 FFFE     9790  OUTPUTO ANDI  R4,#FFFE         MAKE ADDRESS EVEN
FEBC  C144          9800          MOV   R4,R5
FEBE  0245 FFF0     9810          ANDI  R5,#FFF0
FEC2  0225 0080     9820          AI    R5,#80
FEC6  2CE0 F4AA     9830  OUTPUT1 XOP   @MESSO3+1,3      PRINT INDENTATION
FECA  C084          9840          MOV   R4,R2
FECC  06A0 F5D6     9850          BL    @HEXOUTO         PRINT ADDRESS
FED0  2CE0 F4B1     9860          XOP   @MESSO3+7,3      PRINT " "
FED4  CORR4         9870  OUTPUT2 MOV   *R4^,R2
FED6  06A0 F5D2     9880          BL    @HEXOUT
FEDA  8144          9890          C     R4,R5
FEDC  1304          9900          JEQ   OUTPUT3
FEDE  2520 F540     9910          CZC   @MASK16,R4
FEE2  13F1          9920          JEQ   OUTPUT1
FEE4  10F7          9930          JMP   OUTPUT2
FEE6  2C81          9940  OUTPUT3 XOP   R1,2             GET CHARACTER
FEE8  0281 2000     9950          CI    R1,'.'
FEEC  1694          9960          JNE   MONOOC
FEEE  0225 0040     9970          AI    R5,#40           AN EXTRA 4 LINES
FEF2  10E9          9980          JMP   OUTPUT1
                    9990  *
                   10000          END
```

LABEL NAME	DEFN	VALUE	STATEMENT NUMBERS									
ATHASH	930	F4C6	8350									
CO2ATAB	6900	F8BA	7590									
COATAB	6870	F8BA	7040									
C2ATAB	6890	F8AA	7360									
CFIELD	7810	FCCC	7960									
CHAR	2550	F638	1040									
CHAR00	2570	F63C	2550									
CHAR01	2580	F640	2810									
CHAR02	2610	F648	2790	2680	2650							
CHAR03	2690	F65A	2630									
CHAR04	2730	F664	2700									
CHAR05	2770	F66E	2750									
CODE00	7480	FC70	6880	6870								
CODE02	7520	FC7A	6870									
CODE04	7620	FC94	6870									
CODE040	7700	FCAE	7680									
CODE08	7720	FCB0	6880									
CODE100	7250	FC32	7190									
CODE101	7230	FC2E	7210									
CODE2	7290	FC3C	7090									
CODE4	7390	FC56	7070									
COMMA	950	F4C9	8020	7940	7870	7790	7440	3810				
CH	290	000D	5230	900	870							
DELIM	3760	F87E	4390	4300	3960	3880						
DELIM00	3810	F88C	3770									
DISASM	6930	F8DA	6740	6290								
DISASM1	7060	F8FC	7010									
DISASM2	7270	FC3A	6910									
DOT	3050	F7DC	3160									
DSIX	7860	FCD8	6890									
ERR1	5140	F9E0	4980	4720	4240	4210	4190					
ERROR	3840	F892	5140	3790	3720	3430	3300					
FIND	9130	FE28	1030									
FIND00	9150	FE2C	9220									
FIND01	9210	FE38	9410	9160								
FIND02	9260	FE46	9200									
FIND03	9400	FE6E	9340									
FMESSS00	9110	FE1E	9240									
GETRC	4540	F942	5110	4890	4840	4430	4370	4320	4290	4030		
GETRC00	4580	F950	4660									
GETRC01	4670	F966	4620	4600								
GETRC02	4680	F96A	4710									
GETRC03	4730	F976	4690									
GO	9460	FE76	1030									
HASH	940	F4C7	8030	7250	4990	4460	4100					
HEXIN	1900	F5AE	9330	8810	8750	8700	5360	5000	4470	4110	2300	690
HEXIN0	1930	F5B4	2010									
HEXIN1	1960	F5BC	2030									
HEXIN2	2020	F5CA	1970									

```
HEXOUT    2100   F5D2   9880   9310   6980   6580   6180   5340   2490   6950   6470   6330   6240   6210   5910   2470
HEXOUT0   2110   F5D6   9850   9700   9590   9290   8370   8050   7260
HEXOUT1   2140   F5DE   2200
HEXOUTX   2120   F5D8   1220
HEXTAB     990   F4D2   2170   1960
IITAB     5770   FA76   5840
IMESS0    5780   FA7C   5920
IMESS1    5790   FA7F   9680   6450   6190
IMESS2    5800   FA85   6310
IMESS3    5810   FA87   6220
IMM       8030   FD00   6910   6900
IMMR      8000   FCF6   6900
INIT0      460   F40C    490
INIT1      530   F422    580
INIT2      640   F440   1230
INITIAL    420   F400    840
INST00    3110   F7E2   3850   3730   3090
INST01    3180   F7F8   3270
INST02    3280   F812   3230   3210
INST03    3360   F822   3420
INST04    3400   F82C   3370
INST05    3470   F838   3390
INST06    3490   F83E   3520
INST07    3530   F846   3500
INST08    3640   F862   4500   4260   4120   4080   3930
INST09    3670   F86A   3700
INST10    3740   F87A   3800   3310
INSTANT   3090   F7DF   1040    840
INT1      5830   FA8E    840
INT1AA    5870   FA96   5770
INT1BB    5900   FAA0   5880   5770
INT1CC    6040   FAC0   5940   5990
INT1DD    6070   FACA   6100
INT1EE    6150   FAD8   6080
INT1FF    6250   FAFA   6340   5990
INT1GG    6280   FB02   5770
INT1WP     370   F3E0   9690   9650   6380   5670   5660   5630   5490   5270    840    610
INTAB     1010   F502    710
KSIX      7930   FCEA   6890
LF         300   000A   5230    900    870
LMESS0    9510   FE7A   9570
LOW       9530   FE80   1040
LOW00     9560   FE86   9530
MASK16    1070   F540   9910   5690
MASK3     1090   F544   6620
MASK32    1060   F53F   2780
MASKR     1080   F542   5870
MESS00     860   F488    670
MESS01     870   F490    680    660
MESS02     890   F4A6   5960   3840    750
MESS03     900   F4AA   9860   9830   9670   9560   9320   9260   9230   8840   8600   8550   6930   6440   5890   5350   3280   2500
MESS04     920   F4B3   2450   2100   1210
```

```
MMESSO    8650  FD9E   8690
MMESS1    8660  FDA9   8800
MMESS2    8670  FDAD   8850
MON00A    2420  F61E   2720  2390
MON00B    6810  FB86   6610
MON00C    9060  FE16   9960  9710  9660  9600  9550  9460  9420  9250  8950  8910  8890
MON00      680  F44E   9060  6810  6260  5440  3740  2420   760
MON01      710  F45A    740
MON02      750  F464   9070
MON03      770  F46A    720
MONITOR    660  F446   1030
MOVE      8690  FDBA   1030
MOVE00    8930  FDFC   8980  8960
MOVF01    8970  FE04   8920
MOVE02    9010  FE0C   9050
MOVE04    9070  FE1A   8820  8780  8760  8740  8710
NUMTAB    1000  F4E2   8150  7820  6530  4680
ONER      8080  FD0C   6900
OPEN      2260  F5F4   1040
OPEN00    2280  F5F8   2260
OPEN01    2290  F5FC   2410  2370
OPEN02    2340  F60A   2310
OPEN03    2380  F614   2350
OUTPUT    9750  FEE0   1030
OUTPUTO   9790  FEE8   9770
OUTPUT1   9830  FEC6   9980  9920
OUTPUT2   9870  FED4   9930
OUTPUT3   9940  FEE6   9900
PADDRC    2450  F622   3150  2590  2290
PMNEM     8550  FD8C   7760  7660  7570
PRINT     6680  FB64   1030
PRINTOO   6720  FB6C   6700
PRINTO1   6740  FB74   6800  6760
R          960  F4CB   6520
                        640
R0         170  0000   8580  8570  8530  8200  8100  8060  7910  7840  7750  7740  7730  7720  7700  7650  7640  7630
                       7620  7600  7590  7560  7550  7500  7480  7460  7410  7400  7370  7360  7330  7320  7270  7140
                       7130  7120  7110  7050  7040  6070  6060  6050  5850  5840  5170  5070  4940  4900  4740  4380
                       4330  4310  4070  3970  3920  3910  3890  3680  3660  3650  3610  3600  3550  3540  3240  3120
                       3110  2510  2180  2170  2120  1460  1440   630   620   570   560   540   500   480   470   440
R1         130  0001   9950  9940  9400  8880  8870  8860  8730  8520  8510  8470  8460  8440  8430  8410  8400
                       6780  5980  5970  5950  5390  5160  5150  5120  5080  4970  4950  4930  4910  4860  4820
                       4800  4640  4630  4610  4590  4580  3780  3760  3710  3640  3630  3290  3240  3220  3200
                       3180  2770  2760  2740  2710  2690  2660  2620  2610  2380  2340  2170  2160  2150  1960
                       1930  1900  1720  1710  1670   710   570   510   470   450
R10        220  000A   8560  6490  5840  4490  3590  1810  1710  1690  1680  1330  1250  1240  1170  1160   450
R11        230  000B   6300  4800  1820  1810  1570  1460
R12        240  000C   8360  8040  7240  6960  6940  6720  6710  6680  6170  6110  6070  5900  5680  5180  4960  4850  1830  1720  1670
R13        250  000D   9650  6770  6750  6730  6200  3680  3100  2780  2740  1830  1670  1540  1410  1250  1240   600
R14        260  000E   2280  2270  2640  2580  2560  2480  2460  2400  2360  2330  1330  1250   600
```
```
(Hexadecimal addresses for the R registers:  R0 = 0000, R1 = 0001, R10 = 000A, R11 = 000B, R12 = 000C, R13 = 000D, R14 = 000E)
```

Symbol cross-reference listing:

Symbol	Line	Value	References
R15	270	000F	9750 9580 9540 9210 9130 6680 6320 6230 5710 5690 590 9280 9270 9140 8830
R2	140	0002	9870 9840 9780 9690 9650 9580 9540 9470 9390 9370 9300 9360 6940 6710 6570 6460 8790 8770 8720 8360 8040 7240 7230 7220 7200 7170 6970 7160 5030 4740 4730 4700 6420 6320 6230 6200 6170 6090 6040 5900 5660 5380 5050 5330 4150 3280 3260 3250 4680 4670 4650 4570 4480 4250 4230 4220 4200 4180 4160 4170 1200 540 520 3170 3100 2560 2480 2460 2330 2270 2150 2140 2000 1910 1990 2130 2110 2040 1980
R3	150	0003	9760 790 520 540 2190 2210 2570 2040 1920
R4	160	0004	9910 9890 9840 9800 9790 9750 9570 6460 6430 6420 6380 6390 6420 6430 6460 6570 5600 5550 5500 5490 5480 3600 3580 3570 3540 3510 3470 2640 2580 2020 2000 1960 1950
R5	170	0005	800 780 770 730 710 700 9970 9890 9820 9810 9800 9800 8240 8220 8080 8000 7950 7880 7810 7800 7770 7720 7670 7620 7520 7290 7180 7160 7110 7020 6990 6970 6960 6620 6600 6590 6530 6480 5380 5330 5280 5270 4680 4560
R6	180	0006	9030 9010 9000 8990 8970 8930 8900 8830 8380 8280 8270 8260 8250 8240 8220 8160 8150 8130 8120 8080 8000 7890 7880 7770 7590 7580 7550 7540 7530 7520 7400 7390 7360 7350 7320 7310 7300 7290 7080 7060 7040 7030 7020 7000 6990 4640 4550 4540
R7	190	0007	9300 9190 9180 9170 9150 9140 9040 9020 9010 9000 8970 8940 8790 8490 8330 8290 8270 4380 4310 4250 4130 4070 4000 3980 3970 3920 3890 3580 3560 3530 3510 3490 3410 3400 3380 3360 3350
R8	200	0008	9040 8990 8940 8930 8900 8770 8720 8590 8580 8570 5420 5410 5310 5290 5030 4480 3360
R9	210	0009	9390 9360 9270 9210 9180 9150 9130 9040 9020 9010 9000 8940 8790 8580 8190 8180 8150 7830 7820 7810 7800 7770 7720 6560 6550 6540 6530 6510 6500 5930 5870 5050 3380 3140 1690 1170 630
REG	8120	FD14	8480
REGOO	8190	FD2C	8170
REGIST	6380	FB16	1030
REGISTO	6430	FB22	6410
REGIST1	6500	FB3B	6630
REGIST2	6520	FB3E	6640
RESTAR	840	F474	450 640 4880 5100 640 8140
RR	970	F400	1040 8140 4020 4280 4360 4420 5870 5930 6000 7780 7900 8010 8090 8310 8420
SETAP	5270	FA02	5430
SETHPOO	5300	FA0E	5430
SETHPO1	5390	FA2C	5370
SETHPO2	5440	FA3C	5400
SETUP	5620	FA56	5510 5560
SETUPOO	5670	FA64	5650
SETUPO1	5720	FA72	5700
SIX	4790	F97C	3870 3900 3950 4020 4060
SIXOO	4860	F98E	4830
SIXO2	4960	F9AE	4920
SIXO3	4970	F9A0	4870
SIXO4	5050	F9C6	5020
SIXO5	5060	F9C8	5040
SIXO6	5150	F9E4	5130
SIXO7	5170	F9EA	5090
SIXHIT	8260	FD38	8230
SIXHITO	8330	FD4C	8300
SIXHIT2	8460	FD74	8340
SIXHIT3	8530	FD8A	8320 8390 8450 8500
SIXHITD	8240	FD34	7450

Symbol						
SIXBITS	8220	F030	7930	7860	7690	7430
SMFSS0	5230	F9EE	6150	5300		
SMFSS1	5250	F9FA	6160	5320		
STFP	5600	FA52	1040			
SUBTAB	1030	F516	780			
T1	3870	F898	3040			
T100	3910	F8A6	4040			
T101	3920	F8AB	4440	4340		
T2	3950	F8AC	3040			
T200	4020	F8C2	3990			
T201	4030	F8C6	4010			
T3	4060	F8CC	3040			
T4	4100	F8D4	3040			
T400	4230	F8FA	4140			
T5	4280	F904	3040			
T6	4360	F91A	3040			
T7	4420	F92A	3040			
T8	4460	F934	4400	3040		
T9	3630	F860	3040			
TRACE	5480	FA40	1040			
TYBASE	3030	F7B8	3580			
TYPE1	2880	F67A	7410	3350	3000	
TYPE2	2900	F6AA	7330	3000		
TYPE3	2910	F6CA	7650	3000		
TYPE4	2930	F70A	7140	3000		
TYPE5	2950	F74A	7750	3000		
TYPE6	2960	F75A	7560	3010		
TYPE7	2970	F76E	3010			
TYPE8	2980	F776	3010			
TYPE9	2990	F77E	7480	3010		
TYSHIFT	3020	F7AE	3540			
TYSUB	3040	F7CA	3600			
TYTAB	3000	F79A	3480	3410	3010	
WORKSP	340	F3A0	6250	1190	840	
WP	9640	FE96	1030			
WP00	9670	FE9F	9640			
XCUTE	5550	FA4C	1040			
X0P0	1150	F546	850			
X0P0AA	1240	F562	1180			
X0P0XXX	1190	F54E	1700			
X0P1	1320	F568	850			
X0P2	1400	F56E	850			
X0P2AA	1470	F574	1430			
X0P3	1530	F580	850			
X0P3AA	1550	F584	1590	1560		
X0P4	1660	F590	850			
X0P4AA	1680	F594	1730			
X0P5	1800	F5A2	850			
X0P5AA	1810	F5A4	1840			
X0PTAB	850	F47C	510			
X0PWP	330	F3C0	1200	640	630	520	430

NOLABELS= 230 NOPROGRES= 390 ALPHA= 1.69
SYMBOL TABLE 57.35 % FULL.