

ACCESS NAMES TABLE

SOURCE ACCESS NAME= PPC2.P359.SRC.XML359
OBJECT ACCESS NAME= PPC2.P359.OBJ.XML359
LISTING ACCESS NAME= PPC2.P359.LST.XML359
ERROR ACCESS NAME=
OPTIONS= XREF
| MACRO LIBRARY PATHNAME=

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0002          IDT  'XML359'
0003 0000
0004          REF  COMPCG, GETSTG, MEMCHG, CNS, PARSEG, CONTG, EXECG
0005          REF  VPUSHG, VPOP, PGMCH, SYMB, SMBB, ASSGNV, FBSYMB
0006          REF  SPEED, CRUNCH
0007          REF  CIF, CONTIN, RTNG, SCROLL, IO
0008          REF  GREAD, GWRITE, DELREP, MVDN, MVUP, VGWITE, GVWITE
0009          REF  GREAD1, GWITE1, SCAN
0010 0000
0011          DEF  PAGE1, PAGE2
0012          *    PAGE SELECTOR FOR PAGE 1
0013          0000' PAGE1 EQU $ >6000
0014          0000' LWCNS EQU $ CONSTANT 2 FOR CNS
0015 0000 0002 C2 DATA >2 0
0016          *    PAGE SELECTOR FOR PAGE 2
0017          0002' PAGE2 EQU $ >6002
0018 0002 00 C7 BYTE 0
0019 0003 07 CBH7 BYTE >7 2
0020 0004 0A CBHA BYTE >A
0021 0005 94 CBH94 BYTE >94 4
0022 0006 0028 C40 DATA 40 6
0023 0008 0064 C100 DATA 100 8
0024 000A 1000 C1000 DATA >1000 A
0025 000C 0000 DATA 0 C
0026 000E 4001 FLTONE DATA >4001 E
0027 0010
0028          *****
0029          * XML table number 7 for extended BASIC - must have
0030          * it's origin at >6010
0031          *****
0032          *
0033 0010 0000          0 1 2 3 4 5 6
          DATA COMPCG, GETSTG, MEMCHG, CNSSEL, PARSEG, CONTG, EXECG
          0012 0000
          0014 0000
          0016 006E'
          0018 0000
          001A 0000
          001C 0000
0034          *
0035 001E 0000          7 8 9 A B C D
          DATA VPUSHG, VPOP, PGMCH, SYMB, SMBB, ASSGNV, FBSYMB
          0020 0000
          0022 0000
          0024 0000
          0026 0000
          0028 0000
          002A 0000
0036          *
0037 002C 0000          E F
          DATA SPEED, CRNSEL
          002E 0074'
0038 0030
0039          *****
0040          * XML table number 8 for extended BASIC - must have *
0041          * it's origin at >6030 *
0042          *****
0043          *
0044 0030 0000          0 1 2 3 4 5 6 7
          DATA CIF, CONTIN, RTNG, SCROLL, IO, GREAD, GWRITE, DELREP
          0032 0000
          0034 0000
          0036 0000
          0038 0000

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003A	0000										
003C	0000										
003E	0000										
0045		*		B	9	A	B	C	D	E	
0046	0040	0000		DATA	MVDN,	MVUP,	VGWITE,	GVWITE,	GREAD1,	GWITE1,	GDTECT
	0042	0000									
	0044	0000									
	0046	0000									
	0048	0000									
	004A	0000									
	004C	0050									
0047			*			F					
0048	004E	0000		DATA	SCAN						

0050 DEF VDP RD, VDPWD, WRVDP, GRMRD, GRMWA, GRMRA, GRMWD
0051 DEF GETSTK, PUTSTK, CBH94, LINUM, STACK, SYMBOL, ERRLN
0052 DEF PAD, NEGPAD, FLTERR, VSPTR, STKDAT, STKADD, TABSAV
0053 DEF PLAYER, KEYBRD, SIGN, JOYY, EXP, JOYX, RANDOM, TIME
0054 DEF MOTION, VDPSTS, STATUS, CHRBUF, XPT, YPT, FLTNDX
0055 DEF FAC, FAC1, FAC2, FAC4, FAC5, FAC6, FAC7, FAC8, FAC9, FAC1
0056 DEF FAC10, SMTSRT, SUBTAB, BUFLEV, LSUBP, FAC33, FLTONE
0057 DEF FAC12, FAC14, FAC15, FAC16, ARG1, ARG2, ARG4, ARG8, ARG9
0058 DEF ARG3, FDVSR, FDVSR1, FDVSR2, FDVSR8, ARG, WS, FAC11
0059 DEF R0LB, R1LB, R2LB, R3LB, R4LB, R5LB, R6LB, R7LB, R8LB
0060 DEF R9LB, R10LB, R11LB, R12LB, R13LB, R14LB, R15LB, FAC13
0061 DEF PADC2, PAD5F, PAD1, SYMTA1, CALIST, LWCNS
0062 DEF CBH7, C7, BYTE, SREF, SYMTAB, CHAT, STLN, ENLN, PGMPT
0063 DEF PGMPT, PGMPT1, EXTRAM, EXTRM1, ERRCOD, ERRCO1
0064 DEF FLAG, BASE, STVSPT, STREND, INTRIN
0065 DEF NUDTAB, SCLN, TYPE, TEMP2, STKEND, CRULST, SAVEG
0066 DEF SADDR, RAND16, GETCH, GETCHG, POPSTK, C2, RTNADD
0067 DEF VROA\$, PROA\$, FPSIGN, P\$, Q\$, C\$, OE\$, C100
0068 DEF STND12, PRGFLG, C40, C1000, CBHFF
0069 DEF ARG10, FREPTR, STRSP
0070 DEF WSM, WSM2, WSM4, WSM6, WSM8, VSPTR1
0071 DEF CBHA, DATA, LNBUF
0072 DEF ADDR1, ADDR11, ADDR2, ADDR21, VARY, VARY2, RAMTOP, VARO
0073 DEF BCNT1, BCNT2, BCNT3, GDST, GDST1, CSRC, GSRC, GSRC1
0074 DEF DEST, DEST1, XFLAG, FORNET, VAR5
0075 DEF VAR9, MNUM, MNUM1, CCPADR, DSRFLG, CCPPTR, PABPTR
0076 DEF GETCGR, RAMFLG
0077 DEF RAMPTR, VARW, VARW1, VARA, CRNBUF, CRNEND, KEYTAB

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0079 0050
0080          *      Determine if and how much ERAM is present
0081 0050
0082 0050 D80B GDTECT MOVB R11,@PAGE1      First enable page 1 ROM
          0052 0000
0083 0054 0700          SETO R0              Start at >FFFF
0084 0056 D40B          MOVB R11,*R0          Write a byte of data
0085 0058 940B          CB R11,*R0          Read and compare the data
0086 005A 1306          JEQ DTECT2          If matches-found ERAM top
0087 005C 0220          AI R0,->2000        Else drop down 8K
          005E E000
0088 0060 D40B          MOVB R11,*R0          Write a byte of data
0089 0062 940B          CB R11,*R0          Read and compare the data
0090 0064 1301          JEQ DTECT2          If matches-found ERAM top
0091 0066 04C0          CLR R0              No match so no ERAM
0092 0068 C800 DTECT2 MOV R0,@RAMTOP      Set the ERAM top
          006A 8384
0093 006C 045B          RT                      And return to GPL
0094 006E
0095 006E 0202 CNSSEL LI R2,CNS
          0070 0000
0096 0072 1002          JMP PAGSEL
0097 0074
0098 0074 0202 CRNSEL LI R2,CRUNCH
          0076 0000
0099 0078
0100          *      Select Page 2 for CRUNCH and CNS
0101 0078 05E0 PAGSEL INCT @STKADD      Get space on subr stack
          007A 8373
0102 007C D1E0          MOVB @STKADD,R7      Get stack pointer
          007E 8373
0103 0080 0987          SRL R7,8              Shift to use as offset
0104 0082 D9CB          MOVB R11,@PAD(R7)    Save return addr to GPL interp
          0084 8300
0105 0086 D9E0          MOVB @R11LB,@PAD1(R7)
          0088 83F7
          008A 8301
0106 008C D80B          MOVB R11,@PAGE2      Select Page 2
          008E 0002
0107 0090 0692          BL *R2              Do the conversion
0108 0092 D80B          MOVB R11,@PAGE1      Reselect Page 1
          0094 0000
0109 0096 D1E0          MOVB @STKADD,R7      Get subr stack pointer
          0098 8373
0110 009A 0660          DECT @STKADD        Decrement pointer
          009C 8373
0111 009E 0987          SRL R7,8              Shift to use as offset
0112 00A0 D2E7          MOVB @PAD(R7),R11    Restore return address
          00A2 8300
0113 00A4 D827          MOVB @PAD1(R7),@R11LB
          00A6 8301
          00A8 83F7
0114 00AA 045B          RT                      Return to GPL interp
0115 00AC
0116 00AC D7E0 GETCH MOVB @R6LB,*R15
          00AE 83ED
0117 00B0 1000          NOP
0118 00B2 D7C6          MOVB R6,*R15
0119 00B4 0586          INC R6
0120 00B6 D220          MOVB @VDPRD,R8
  
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00B8 8800
0121 00BA 0988 GETCH1 SRL R8,8
0122 00BC 045B RT
0123 00BE DB46 GETCHG MOVB R6,@GRMWA(R13)
00C0 0402
0124 00C2 DB60 MOVB @R6LB,@GRMWA(R13)
00C4 83ED
00C6 0402
0125 00C8 0586 INC R6
0126 00CA D21D MOVB *R13,R8
0127 00CC 10F6 JMP GETCH1
0128 00CE
0129 00CE D236 GETCGR MOVB *R6+,R8
0130 00D0 10F4 JMP GETCH1
0131 *
0132 00D4 CBHFF EQU $+2
0133 00D2 0205 POPSTK LI R5,-8
00D4 FFF8
0134 00D6 D7E0 MOVB @VSPTR+1,*R15
00D8 836F
0135 00DA 0206 LI R6,ARG
00DC 835C
0136 00DE D7E0 MOVB @VSPTR,*R15
00E0 836E
0137 00E2 A805 A R5,@VSPTR
00E4 836E
0138 00E6 DDA0 STKMOV MOVB @VDPRD,*R6+
00E8 8800
0139 00EA 0585 INC R5
0140 00EC 16FC JNE STKMOV
0141 00EE 045B RT
0142 *
0143 00F0 05E0 PUTSTK INCT @STKADD
00F2 8373
0144 00F4 D120 MOVB @STKADD,R4
00F6 8373
0145 00F8 0984 SRL R4,8
0146 00FA D92D MOVB @GRMRA(13),@PAD(R4)
00FC 0002
00FE 8300
0147 0100 D92D MOVB @GRMRA(13),@PAD1(R4)
0102 0002
0104 8301
0148 0106 0624 DEC @PAD(R4)
0108 8300
0149 010A 045B RT
0150 *
0151 010C D120 GETSTK MOVB @STKADD,R4
010E 8373
0152 0110 0984 SRL R4,8
0153 0112 0660 DECT @STKADD
0114 8373
0154 0116 DB64 MOVB @PAD(R4),@GRMWA(R13)
0118 8300
011A 0402
0155 011C DB64 MOVB @PAD1(R4),@GRMWA(R13)
011E 8301
0120 0402
0156 0122 045B RT
0157 *
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0158	8800	VDP RD	EQU	>8800	VDP read address
0159	8C00	VDP WD	EQU	>8C00	VDP write address
0160	4000	WRVDP	EQU	>4000	Write enable for VDP
0161	9800	GRMRD	EQU	>9800	GROM read data
0162	0402	GRMWA	EQU	>9C02-GRMRD	Write GROM address
0163	0002	GRMRA	EQU	>9802-GRMRD	Read GROM address
0164	0400	GRMWD	EQU	>9C00-GRMRD	GROM write data
0165		*			
0166		*			
0167	B4E0	KEYTAB	EQU	>B4E0	ADDRESS OF KEYWORD TABLE
0168		*			
0169	8300	PAD	EQU	>8300	
0170	7D00	NEGPAD	EQU	-PAD	
0171	8301	PAD1	EQU	PAD+1	
0172	835F	PAD5F	EQU	PAD+>5F	
0173	83C2	PADC2	EQU	PAD+>C2	
0174		*			
0175	8302	MNUM	EQU	PAD+>02	
0176	8303	MNUM1	EQU	PAD+>03	
0177	8304	PABPTR	EQU	PAD+>04	
0178	8306	CCPPTR	EQU	PAD+>06	
0179	8308	CCPADR	EQU	PAD+>08	
0180	830A	RAMPTR	EQU	PAD+>0A	
0181	830A	CALIST	EQU	PAD+>0A	
0182	830C	BYTE	EQU	PAD+>0C	
0183	8310	PROA\$	EQU	PAD+>10	
0184	8310	VAR5	EQU	PAD+>10	
0185	8312	P\$	EQU	PAD+>12	
0186	8312	LINUM	EQU	PAD+>12	
0187	8314	OE\$	EQU	PAD+>14	
0188	8316	Q\$	EQU	PAD+>16	
0189	8316	XFLAG	EQU	PAD+>16	
0190	8317	DSRFLG	EQU	PAD+>17	
0191	8317	FORNET	EQU	PAD+>17	
0192	831A	C\$	EQU	PAD+>1A	
0193	0124				
0194	8318	STRSP	EQU	PAD+>18	
0195	831A	STREND	EQU	PAD+>1A	
0196	831A	WSM	EQU	PAD+>1A	
0197	831C	SREF	EQU	PAD+>1C	
0198	831C	WSM2	EQU	PAD+>1C	
0199	831E	WSM4	EQU	PAD+>1E	
0200	831E	SMTSRT	EQU	PAD+>1E	
0201	8320	WSM6	EQU	PAD+>20	
0202	8320	VARW	EQU	PAD+>20	
0203	8321	VARW1	EQU	PAD+>21	
0204	8322	ERRCOD	EQU	PAD+>22	
0205	8322	WSM8	EQU	PAD+>22	
0206	8323	ERRC01	EQU	PAD+>23	
0207	8324	STVSPT	EQU	PAD+>24	
0208	8326	RTNADD	EQU	PAD+>26	
0209	8328	NUDTAB	EQU	PAD+>28	
0210	832A	VARA	EQU	PAD+>2A	
0211	832C	PGMPTR	EQU	PAD+>2C	
0212	832D	PGMPT1	EQU	PAD+>2D	
0213	832E	EXTRAM	EQU	PAD+>2E	
0214	832F	EXTRM1	EQU	PAD+>2F	
0215	8330	STLN	EQU	PAD+>30	
0216	8332	ENLN	EQU	PAD+>32	
0217	8334	DATA	EQU	PAD+>34	

0218	8336	LNBUF	EQU	PAD+>36
0219	8338	INTRIN	EQU	PAD+>38
0220	833A	SUBTAB	EQU	PAD+>3A
0221	833E	SYMTAB	EQU	PAD+>3E
0222	833F	SYMTA1	EQU	PAD+>3F
0223	8340	FREPTR	EQU	PAD+>40
0224	8342	CHAT	EQU	PAD+>42
0225	8343	BASE	EQU	PAD+>43
0226	8344	PRGFLG	EQU	PAD+>44
0227	8345	FLAG	EQU	PAD+>45
0228	8346	BUFLEV	EQU	PAD+>46
0229	8348	LSUBP	EQU	PAD+>48
0230	8355	SCLN	EQU	PAD+>55
0231	836C	TEMP2	EQU	PAD+>6C
0232	836C	FLTERR	EQU	PAD+>6C
0233	836D	TYPE	EQU	PAD+>6D
0234	836E	VSPTR	EQU	PAD+>6E
0235	836F	VSPTR1	EQU	PAD+>6F
0236	8372	STKDAT	EQU	PAD+>72
0237	8373	STKADD	EQU	PAD+>73
0238	8373	STACK	EQU	PAD+>73
0239	8374	PLAYER	EQU	PAD+>74
0240	8375	KEYBRD	EQU	PAD+>75
0241	8375	SIGN	EQU	PAD+>75
0242	8376	JOYY	EQU	PAD+>76
0243	8376	EXP	EQU	PAD+>76
0244	8377	JOYX	EQU	PAD+>77
0245	8378	RANDOM	EQU	PAD+>78
0246	8379	TIME	EQU	PAD+>79
0247	837A	MOTION	EQU	PAD+>7A
0248	837B	VDPSTS	EQU	PAD+>7B
0249	837C	STATUS	EQU	PAD+>7C
0250	837D	CHRBUF	EQU	PAD+>7D
0251	837E	YPT	EQU	PAD+>7E
0252	837F	XPT	EQU	PAD+>7F
0253	8389	RAMFLG	EQU	PAD+>89
0254	83BA	STKEND	EQU	PAD+>8A
0255	83AE	STND12	EQU	STKEND-12
0256	83C0	CRULST	EQU	PAD+>C0
0257	83CB	SAVEG	EQU	PAD+>CB
0258	83D2	SADDR	EQU	PAD+>D2
0259	83D4	RAND16	EQU	PAD+>D4
0260		*		
0261	834A	FAC	EQU	PAD+>4A
0262	834B	FAC1	EQU	FAC+1
0263	834C	FAC2	EQU	FAC+2
0264	834E	FAC4	EQU	FAC+4
0265	834F	FAC5	EQU	FAC+5
0266	8350	FAC6	EQU	FAC+6
0267	8351	FAC7	EQU	FAC+7
0268	8352	FAC8	EQU	FAC+8
0269	8353	FAC9	EQU	FAC+9
0270	8354	FAC10	EQU	FAC+10
0271	8355	FAC11	EQU	FAC+11
0272	8356	FAC12	EQU	FAC+12
0273	8357	FAC13	EQU	FAC+13
0274	8358	FAC14	EQU	FAC+14
0275	8359	FAC15	EQU	FAC+15
0276	835A	FAC16	EQU	FAC+16
0277	836B	FAC33	EQU	FAC+33

0278	8354	FLTNDX	EQU	FAC+10
0279	8354	FDVSR	EQU	FAC+10
0280	8355	FDVSR1	EQU	FDVSR+1
0281	8356	FDVSR2	EQU	FDVSR+2
0282	835C	FDVSR8	EQU	FDVSR+8
0283	835C	ARG	EQU	FAC+18
0284	835D	ARG1	EQU	ARG+1
0285	835E	ARG2	EQU	ARG+2
0286	835F	ARG3	EQU	ARG+3
0287	8360	ARG4	EQU	ARG+4
0288	8364	ARG8	EQU	ARG+8
0289	8365	ARG9	EQU	ARG+9
0290	8366	ARG10	EQU	ARG+10
0291		*		
0292	83E0	WS	EQU	PAD+>E0
0293	83E1	R0LB	EQU	PAD+>E1
0294	83E3	R1LB	EQU	PAD+>E3
0295	83E5	R2LB	EQU	PAD+>E5
0296	83E7	R3LB	EQU	PAD+>E7
0297	83E9	R4LB	EQU	PAD+>E9
0298	83EB	R5LB	EQU	PAD+>EB
0299	83ED	R6LB	EQU	PAD+>ED
0300	83EF	R7LB	EQU	PAD+>EF
0301	83F1	R8LB	EQU	PAD+>F1
0302	83F3	R9LB	EQU	PAD+>F3
0303	83F5	R10LB	EQU	PAD+>F5
0304	83F7	R11LB	EQU	PAD+>F7
0305	83F9	R12LB	EQU	PAD+>F9
0306	83FB	R13LB	EQU	PAD+>FB
0307	83FD	R14LB	EQU	PAD+>FD
0308	83FF	R15LB	EQU	PAD+>FF
0309	834C	ADDR1	EQU	FAC+2
0310	834D	ADDR11	EQU	FAC+3
0311	8350	ADDR2	EQU	FAC+6
0312	8351	ADDR21	EQU	FAC+7
0313	834E	BCNT1	EQU	FAC+4
0314	8302	GDST	EQU	PAD+>02
0315	8303	AAA11	EQU	PAD+>03
0316	8303	GDST1	EQU	PAD+>03
0317	830C	CSRC	EQU	PAD+>0C
0318	8308	BCNT2	EQU	PAD+>08
0319	8354	GSRC	EQU	FAC+10
0320	8355	DDD11	EQU	FAC+11
0321	8355	GSRC1	EQU	FAC+11
0322	8358	DEST	EQU	FAC+14
0323	8359	DEST1	EQU	FAC+15
0324	8356	BCNT3	EQU	FAC+12
0325	8304	VARY	EQU	PAD+>04
0326	8306	VARY2	EQU	VARY+2
0327	8384	RAMTOP	EQU	PAD+>84
0328	8300	VAR0	EQU	PAD+>00
0329	8316	VAR9	EQU	PAD+>16
0330		*		
0331	0376	SYMBOL	EQU	>376
0332	038A	ERRLN	EQU	>38A
0333	0392	TABSAV	EQU	>392
0334	03DC	FPSIGN	EQU	>3DC
0335	03C0	VRDA#	EQU	>3C0
0336	0820	CRNBUF	EQU	>820
0337	08BE	CRNEND	EQU	>8BE

XML359 SDSMAC 3.3.0 79.312 16:33:25 MONDAY, JUN 23, 1980.
XML TABLE AND EQUATES FOR P359 BASIC

PAGE 0010

0338 END
NO ERRORS, NO WARNINGS

LABEL

VALUE

DEFN

REFERENCES

LABEL	VALUE	DEFN	REFERENCES
R3LB	D 83E7	0296	0059
R4	0004		0144 0145 0146 0147 0148 0151 0152 0154 015
R4LB	D 83E9	0297	0059
R5	0005		0133 0137 0139
R5LB	D 83EB	0298	0059
R6	0006		0118 0119 0123 0125 0129 0135 0138
R6LB	D 83ED	0299	0059 0116 0124
R7	0007		0102 0103 0104 0105 0109 0111 0112 0113
R7LB	D 83EF	0300	0059
R8	0008		0120 0121 0126 0129
R8LB	D 83F1	0301	0059
R9LB	D 83F3	0302	0060
RAMFLG	D 8389	0253	0076
RAMPTR	D 830A	0180	0077
RAMTOP	D 8384	0327	0072 0092
RAND16	D 83D4	0259	0066
RANDOM	D 8378	0245	0053
RTNADD	D 8326	0208	0066
RTNG	R 0034	0007	0044
SADDR	D 83D2	0258	0066
SAVEG	D 83CB	0257	0065
SCAN	R 004E	0009	0048
SCLN	D 8355	0230	0065
SCROLL	R 0036	0007	0044
SIGN	D 8375	0241	0053
SMBB	R 0026	0005	0035
SMTSRT	D 831E	0200	0056
SPEED	R 002C	0006	0037
SREF	D 831C	0197	0062
STACK	D 8373	0238	0051
STATUS	D 837C	0249	0054
STKADD	D 8373	0237	0052 0101 0102 0109 0110 0143 0144 0151 0153
STKDAT	D 8372	0236	0052
STKEND	D 83BA	0254	0065 0255
STKMOV	00E6	0138	0140
STLN	D 8330	0215	0062
STND12	D 83AE	0255	0068
STREND	D 831A	0195	0064
STRSP	D 8318	0194	0069
STVSPT	D 8324	0207	0064
SUBTAB	D 833A	0220	0056
SYMB	R 0024	0005	0035
SYMBOL	D 0376	0331	0051
SYMTA1	D 833F	0222	0061
SYMTAB	D 833E	0221	0062
TABSAV	D 0392	0333	0052
TEMP2	D 836C	0231	0065
TIME	D 8379	0246	0053
TYPE	D 836D	0233	0065
VAR0	D 8300	0328	0072
VAR5	D 8310	0184	0074
VAR9	D 8316	0329	0075
VARA	D 832A	0210	0077
VARW	D 8320	0202	0077
VARW1	D 8321	0203	0077
VARY	D 8304	0325	0072 0326
VARY2	D 8306	0326	0072
VDPRD	D 8800	0158	0050 0120 0138
VDPSTS	D 837B	0248	0054
VDPWD	D 8C00	0159	0050

VGWITE	R	0044'	0008	0046			
VPOP	R	0020'	0005	0035			
VPUSHG	R	001E'	0005	0035			
VRDA\$	D	03C0	0335	0067			
VSPTR	D	836E	0234	0052	0134	0136	0137
VSPTR1	D	836F	0235	0070			
WRVDP	D	4000	0160	0050			
WS	D	83E0	0292	0058			
WSM	D	831A	0196	0070			
WSM2	D	831C	0198	0070			
WSM4	D	831E	0199	0070			
WSM6	D	8320	0201	0070			
WSM8	D	8322	0205	0070			
XFLAG	D	8316	0189	0074			
XPT	D	837F	0252	0054			
YPT	D	837E	0251	0054			