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TITLE W2X1SQ.SYS for the alphaTroni
c P30 + R0204 (REST)

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; Hard Disk Drive for Version 2.x of MSDOS.

= 0001      Y      =      1
              IRP      X,<0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15>
BIT&X      =      Y
Y          =      Y SHL 1
ENDM

; -----
= FFEA      PIOOUT EQU      OFFEAH      ;Port to output one Byte to the 8085
= FFEA      PIOIN   EQU      OFFEAH      ;Port to input one Byte from the 8085
= FFE9      PIOSTS  EQU      OFFE9H      ;Port for Bufferflags (IBF & OBF)
                                         ;OBF is connected to TEST Input of the CPU,
                                         ;IBF is connected to INT2 of PIC 8259A

= 0010      hd_read equ      10H
= 0011      hd_writ  equ      11H
= 0012      HD_STS   EQU      12H      ;get Status, if Winni on-line
= 0014      HD_INIT  EQU      14H      ;init. XEBEC
; ----

0000      CODE SEGMENT
ASSUME CS:CODE,DS:NOTHING,ES:NOTHING,SS:NOTHING
```

page

0000 ORG 0 ;Starts at an offset of zero.

SUBTTL Device driver tables.

; DWORD pointer to next device ; (-1,-1 if last device)	; 1 word offset. ; 1 word segement.
; Device attribute WORD ; Bit 15 = 1 for character devices. ; 0 for Block devices.	; 1 word.
; Character devices. (Bit 15=1) ; Bit 1 = 1 current std device. ; Bit 2 = 1 current NUL device. ; Bit 3 = 1 current Clock device.	
; Bit 13 = 1 for non IBM machines. ; 0 for IBM machines only. ; Bit 14 = 1 IOCTL control bit.	
; Device strategy pointer.	; 1 word offset.
; Device interrupt pointer.	; 1 word offset.
; Device name field. ; Character devices are any valid name ; left justified, in a space filled ; field. ; Block devices contain # of units in ; the first byte.	; 8 bytes.

0000 DSKDEV: ;Header for hard disk driver.
0000 FFFF FFFF ;Last device
0004 2000 ;Is a block device
0006 0031 R
0008 003C R
000A 02
000B 07 C ;Number of Units
??

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0012 FF WINSTS DB OFFH ;mark Winni as present, so DSK_INIT
;can request a Status

PAGE
SUBTTL Dispatch tables for each device.

0013 0183 R	DSK_TBL:DW	DSK_INI	\$0 - Initialize Driver.
0015 00BC R	DW	MEDIAC	\$1 - Return current media code.
0017 00C7 R	DW	GET_BPB	\$2 - Get Bios Parameter Block.
0019 007F R	DW	CMDERR	\$3 - Reserved. (currently returns error)
001B 00D7 R	DW	DSK_RED	\$4 - Block read.
001D 007B R	DW	BUS_EXIT	\$5 - (Not used, return busy flag)
001F 0086 R	DW	EXIT	\$6 - Return status. (Not used)
0021 0086 R	DW	EXIT	\$7 - Flush input buffer. (Not used.)
0023 00DD R	DW	DSK_WRT	\$8 - Block write.
0025 00DD R	DW	DSK_WRV	\$9 - Block write with verify.
0027 0086 R	DW	EXIT	\$10 - Return output status.
0029 0086 R	DW	EXIT	\$11 - Flush output buffer. (Not used.)
002B 0086 R	DW	EXIT	\$12 - IO Control.

Dispatch tables for each device.

PAGE
SUBTTL Strategy and Software Interrupt routines.

; Define offsets for io data packet

	IODAT	STRUC	
0000 ??	CMDLEN	DB ?	; LENGTH OF THIS COMMAND
0001 ??	UNIT	DB ?	; SUB UNIT SPECIFIER
0002 ??	CMD	DB ?	; COMMAND CODE
0003 ????	STATUS	DW ?	; STATUS
0005 08 E		DB 8 DUP (?)	

??

]

000D ??	MEDIA	DB ?	; MEDIA DESCRIPTOR
000E ????????	TRANS	DD ?	; TRANSFER ADDRESS
0012 ????	COUNT	DW ?	; COUNT OF BLOCKS OR CHARACTERS
0014 ????	START	DW ?	; FIRST BLOCK TO TRANSFER
0016	IODAT	ENDS	

002D 00 00 00 00 PTRSAV DD 0 ;Strategy pointer save.

; Simplistic Strategy routine for non-multi-Tasking system.
; Currently just saves I/O packet pointers in PTRSAV for
; later processing by the individual interrupt routines.

0031 STRATP PROC FAR

0031 STRATEGY:

0031 2E: 89 1E 002D R	MOV WORD PTR CS:[PTRSAV],BX
0036 2E: 8C 06 002F R	MOV WORD PTR CS:[PTRSAV+2],ES
003B CB	RET

003C STRATP ENDP

003C DSK_INT:

003C 56	PUSH SI
003D BE 0013 R	MOV SI,OFFSET DSK_TBL

; Common program for handling the simplistic I/O packet
; processing scheme in MSDOS 2.0

0040 50	ENTRY: PUSH AX	; Save all necessary registers.
0041 51	PUSH CX	
0042 52	PUSH DX	
0043 57	PUSH DI	
0044 55	PUSH BP	
0045 1E	PUSH DS	
0046 06	PUSH ES	
0047 53	PUSH BX	

0048 2E: C5 1E 002D R LDS BX,CS:[PTRSAV] ; Retrieve pointer to I/O Packet.

004D 8A 47 01	MOV AL,[BX.UNIT]	; AL = Unit code.
0050 8A 67 0D	MOV AH,[BX.MEDIA]	; AH = Media descriptor.

Strategy and Software Interrupt routines.

0053 8B 4F 12	MOV	CX,[BX.COUNT]	;CX = Contains byte/sector count.
0056 8B 57 14	MOV	DX,[BX.START]	;DX = Starting Logical sector.
0059 97	XCHG	DI,AX	;Save Unit and Media Temporarily.
005A 8A 47 02	MOV	AL,[BX.CMD]	;Retrieve Command type. (i => ii)
005D 32 E4	XOR	AH,AH	;Clear upper half of AX for calculation.
005F 03 F0	ADD	SI,AX	;Compute entry pointer in dispatch table.
0061 03 F0	ADD	SI,AX	
0063 3C 0B	CMP	AL,11	;Verify that not more than 11 commands.
0065 77 18	JA	CMDERR	;Ah, well, error out.
0067 97	XCHG	AX,DI	
0068 C4 7F 0E	LES	DI,[BX.TRANS]	;DI contains address of Transfer address. ;ES contains segment.
006B 0E	PUSH	CS	
006C 1F	POP	DS	;Data segment same as Code segment.
006D 2E: 80 3E 0012 R 00	CMP	[WINSTS],0	
0073 75 04	JNZ	DOIT	;Winni is present
0075 B0 02	MOV	AL,2	; not ready error
0077 EB 08	JMP	SHORT ERR_EXIT	
0079 FF 24	DOIT:	JMP [SI]	;Perform I/O packet command.

PAGE
SUBTTL Common error and exit points.

007B		BUS_EXIT:		;Device busy exit.
007B B4 03		MOV	AH,00000011B	;Set busy and done bits.
007D EB 09		JMP	SHORT EXIT1	
007F B0 03		CMDERR:	MOV AL,3	;Set unknown command error #.
0081		ERR_EXIT:		
0081 B4 81		MOV	AH,10000001B	;Set error and done bits.
0083 F9		STC		;Set carry bit also.
0084 EB 02		JMP	SHORT EXIT1	;Quick way out.
0086		EXITP	PROC FAR	;Normal exit for device drivers.
0086 B4 01		EXIT:	MOV AH,00000001B	;Set done bit for MSDOS.
0088 2E: C5 1E 002D R		EXIT1:	LDS BX,CS:[PTRSAV]	
008D 89 47 03			MOV [BX.STATUS],AX	;Save operation complete and status.
0090 5B		POP	BX	;Restore registers.
0091 07		POP	ES	
0092 1F		POP	DS	
0093 5D		POP	BP	
0094 5F		POP	DI	
0095 5A		POP	DX	
0096 59		POP	CX	
0097 58		POP	AX	
0098 5E		POP	SI	
0099 CB		RET		;RESTORE REGS AND RETURN
009A		EXITP	ENDP	

PAGE
SUBTTL Common Drive parameter block

DBP STRUC

0000 03 E ??
 JMPNEAR DB 3 DUP (?) ;Jump Near xxxx for boot.

0003 08 E ??
 NAMEVER DB 8 DUP (?) ;Name / Version of OS.
 J

;----- Start of Drive Parameter Block.

000B	????	SECSIZE DW	?	;Sector size in bytes.	(dpb)
000D	??	ALLOC DB	?	;Number of sectors per alloc. block.	(dpb)
000E	????	RESSEC DW	?	;Reserved sectors.	(dpb)
0010	??	FATS DB	?	;Number of FAT's.	(dpb)
0011	????	MAXDIR DW	?	;Number of root directory entries.	(dpb)
0013	????	SECTORS DW	?	;Number of sectors per diskette.	(dpb)
0015	??	MEDIAID DB	?	;Media byte ID.	(dpb)
0016	????	FATSEC DW	?	;Number of FAT Sectors.	(dpb)

;----- End of Drive Parameter Block.

0018	????	SECTRK DW	?	;Number of Sectors per track.
001A	????	HEADS DW	?	;Number of heads per cylinder.
001C	????	HIDDEN DW	?	;Number of hidden sectors.

001E DBP ENDS

009A 03 E ??
 J

HDDRIVE DBP (,,512,4,0,2,1024,10234,OFFH,8,17,2,0)

009D 08 E ??
 J

00A5	0200
00A7	04
00A8	0000
00AA	02
00AB	0400
00AD	27FA
00AF	FF
00B0	0008
00B2	0011
00B4	0002
00B6	0000

00B8 00A5 R INITTAB DW OFFSET HDDRIVE.SECSIZE
00BA 00A5 R DW OFFSET HDDRIVE.SECSIZE

Common Drive parameter block

PAGE
SUBTTL Media check routine

; Media check routine.
; On entry:
; AL = memory driver unit number.
; AH = media byte
; On exit:
;
; [MEDIA FLAG] = -1 (FF hex) if disk is changed.
; [MEDIA FLAG] = 0 if don't know.
; [MEDIA FLAG] = 1 if not changed.

00BC 2E: C5 1E 002D R
00C1 C6 47 0E 00
00C5 EB BF

MEDIAC: LDS BX,CS:[PTRSAVI]
MOV BYTE PTR [BX.TRANS],0 ;removable media
JMP EXIT

; Build Bios Parameter Blocks.

; On entry: ES:BX contains the address of a scratch sector buffer.
; AL = Unit number.
; AH = Current media byte.

; On exit: Return a DWORD pointer to the associated BPB
; in the Request packet.

00C7 BE 00A5 R
00CA 2E: C5 1E 002D R
00CF 89 77 12
00D2 8C 4F 14
00D5 EB AF

GET_BPB:
MOV SI,OFFSET HDDRIVE+11
LDS BX,CS:[PTRSAVI]
MOV WORD PTR [BX.COUNT],SI
MOV WORD PTR [BX.COUNT+2],CS
JMP EXIT

PAGE
SUBTTL Hard Disk drive control.

; Disk READ/WRITE functions.

; On entry:
; AL = Disk I/O driver number
; AH = Media byte.
; ES = Disk transfer segment.
; DI = Disk transfer offset in ES.
; CX = Number of sectors to transfer
; DX = Logical starting sector.

; On exit:
; Normal exit through common exit routine.

; Abnormal exit through common error routine.

DSK_RED:

00D7	8A E0	mov	ah,al	
00D9	B0 10	MOV	AL,HD_READ	
00DB	EB 04	JMP	SHORT DSK_COM	
00DD		DSK_WRV:		
00DD		DSK_WRT:		
00DD	8A E0	mov	ah,al	
00DF	B0 11	MOV	AL,HD_WRIT	
00E1		DSK_COM:		
00E1	50	push	ax	
00E2	E8 0146 R	CALL	OUTDAT	; send Function # to IOCS-85
00E5	8A C4	mov	al,ah	
00E7	E8 0146 R	call	outdat	; send drive # to IOCS-85
00EA	8A C2	MOV	AL,DL	
00EC	E8 0146 R	CALL	OUTDAT	
00EF	8A C6	MOV	AL,DH	
00F1	E8 0146 R	CALL	OUTDAT	; send starting block to IOCS-85
00F4	8A C1	MOV	AL,CL	
00F6	E8 0146 R	CALL	OUTDAT	; send # of sectors
00F9	FC	CLD		
00FA	8B C1	MOV	AX,CX	
00FC	B1 08	MOV	CL,8	; *512/2
00FE	D3 E0	SHL	AX,CL	
0100	8B C8	MOV	CX,AX	; <CX> = # of bytes to transfer
0102	58	POP	AX	
0103	3C 10	CMP	AL,HD_READ	
0105	75 2D	JNZ	WRTWIN	
0107	FA	CLI		
0108	BA FFE9	MOV	DX,PIOSTS	

010B GET_IT:
010B EC
010C A8 01
010E 75 FB
0110 42
0111 EC
0112 8A E0
0114 4A
0115 EC
0116 A8 01
0118 75 FB
011A 42
011B EC
011C 86 E0
011E AB
011F 4A
0120 E2 E9
0122 FB WINEXI: STI
0123 BA FFE9
0126 EC
0127 A8 01
0129 75 FB
012B 42
012C EC
012D 0A C0
012F 75 1D
0131 E9 0086 R
0134 8B F7
0136 FA
0137 BA FFEA
013A 26: AD
013C 9B
013D EE
013E 8A C4
0140 9B
0141 EE
0142 E2 F6
0144 EB DC
0146 52
0147 BA FFEA
014A 9B
014B EE
014C 5A

INDAT2: IN AL,DX
TEST AL,1
JNZ INDAT2
INC DX ;Dataregister
IN AL,DX
MOV AH,AL
DEC DX ;Statusregister
IN AL,DX
TEST AL,1
JNZ INDAT3
INC DX ;Dataregister
IN AL,DX
XCHG AH,AL
STOS WORD PTR ES:[DI]
DEC DX ;Statusregister
LOOP GET_IT

INDAT1: IN AL,DX
TEST AL,1
JNZ INDAT1
INC DX
IN AL,DX

OR AL,AL
JNZ DERROR

JMP EXIT ;All done.

WRTWIN: MOV SI,DI
CLI
MOV DX,PIOOUT
WRTWI1: LODS WORD PTR ES:[SI]
WAIT ;for OBF = 0 (1)
OUT DX,AL
MOV AL,AH
WAIT ;for OBF = 0 (1)
OUT DX,AL
LOOP WRTWI1

JMP SHORT WINEXI

OUTDAT: PUSH DX
MOV DX,PIOOUT
WAIT ;for OBF = 0 (1)
OUT DX,AL
POP DX

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Hard Disk drive control.

014D C3

RET

PAGE
SUBTTL Disk Error processing

014E 2E: C5 1E 002D R	DERROR: LODS BX,CS:[PTRSAV]	
0153 C7 47 12 0000	MOV [BX.COUNT],0	
0158 0E	PUSH CS	
0159 1F	POP DS	
015A B3 FF	MOV BL,-1	
015C 8A E0	MOV AH,AL	
015E B7 0E	MOV BH,14	;Length of table.
0160 BE 0176 R	MOV SI,OFFSET DERRTAB	
0163 FE C3	DERROR2: INC BL	;Increment to next error code.
0165 2E: AC	LODS BYTE PTR CS:[SI]	
0167 3A E0	CMP AH,AL	;See if error code matches disk status.
0169 74 06	JZ DERROR3	;Got the right error, exit.
016B FE CF	DEC BH	
016D 75 F4	JNZ DERROR2	;Keep checking table.
016F B3 0C	BADSIZ: MOV BL,12	;Set general type of error.
0171 8A C3	DERROR3: MOV AL,BL	;Now we've got the code.
0173 E9 0081 R	JMP ERR_EXIT	
0176 00	DERRTAB DB 00H	; 0. Write protect error
0177 00	DB 00H	; 1. Unknown unit.
0178 04	DB 04H	; 2. Not ready error.
0179 20	DB 20H	; 3. Unknown command.
017A 11	DB 11H	; 4. CRC error
017B 21	DB 21H	; 5. Bad drive request.
017C 15	DB 15H	; 6. Seek error
017D 00	DB 00H	; 7. Unknown media.
017E 14	DB 14H	; 8. Sector not found
017F 00	DB 00H	; 9. (Not used.)
0180 40	DB 40H	; 10. Write fault.
0181 18	DB 18H	; 11. Read fault.
0182 00	DB 00H	; 12. General type of failure.

PAGE
SUBTTL Hard Disk Drive initialization routine.

0183 DSK_INI:
0183 BO 14 MOV AL,HD_INIT
0185 ES 0146 R CALL OUTDAT

0188 BO 80 MOV AL,80H
018A ES 0146 R CALL OUTDAT

018D B9 0008 MOV CX,8
0190 BE 0242 R MOV SI,OFFSET WINTAB
0193 DSK_IN_1:
0193 2E: AC LODS BYTE PTR CS:[SI]
0195 ES 0146 R CALL OUTDAT
0198 E2 F9 LOOP DSK_IN_1

019A BO 12 MOV AL,HD_STS
019C ES 0146 R CALL OUTDAT ;request the Winni Status

019F BA FFE9 MOV DX,PIOSTS
01A2 EC IN AL,DX
01A3 A8 01 TEST AL,1
01A5 75 FB JNZ INDATA4

01A7 42 INC DX
01A8 EC IN AL,DX
01A9 2E: A2 0012 R MOV WINSTS,AL ;00, if not online (present), <> 0, if present

01AD 2E: C5 1E 002D R LDS BX,CS:[PTRSAVI]
01B2 C6 47 0D 02 MOV BYTE PTR [BX.MEDIA],2
01B6 C7 47 0E 0183 R MOV WORD PTR [BX.TRANS],OFFSET DSK_INI
01BB 8C 4F 10 MOV WORD PTR [BX.TRANS+2],CS

01BE C7 47 12 00B8 R MOV WORD PTR [BX.COUNT],OFFSET INITTAB
01C3 8C 4F 14 MOV WORD PTR [BX.COUNT+2],CS

01C6 0E PUSH CS
01C7 1F POP DS
01C8 ES 021E R CALL PRINT
01CB OD OA DB 13,10
01CD 61 6C 70 68 61 54 DB 'alphaTronic P40 Hard Disk Driver V1.5i'
72 6F 6E 69 63 20
50 34 30 20 48 61
72 64 20 44 69 73
6B 20 44 72 69 76
65 72 20 20 20 56
31 2E 35 31
01F5 20 20 20 32 58 31 DB ' 2X1SQ BS 10-Nov-84'
53 51 20 20 20 20
20 20 20 20 20 20
20 20 20 42 53 20
20 20 31 30 2D 4E
6F 76 2D 38 34
0218 OD OA FF DB 13,10,-1

021B E9 0086 R	JMP	EXIT
021E 8B EC	PRINT:	MOV BP,SP
0220 87 5E 00		XCHG BX,[BP]
0223 8A 07	PRINT1:	MOV AL,[BX]
0225 E8 0235 R		CALL OUTCHR
0228 43		INC BX
0229 80 3F FF		CMP BYTE PTR [BX],-1
022C 75 F5		JNE PRINT1
022E 43		INC BX
022F 8B EC		MOV BP,SP
0231 87 5E 00		XCHG BX,[BP]
0234 C3		RET
0235 8A C8	OUTCHR:	MOV CL,AL
0237 B0 03		MOV AL,3
0239 E8 0146 R		CALL OUTDAT
023C 8A C1		MOV AL,CL
023E E8 0146 R		CALL OUTDAT
0241 C3		RET
0242 01 32	WINTAB:	DB 01H,32H
0244 02		DB 02H
0245 00 80		DB 00H,80H
0247 00 40		DB 00H,40H
0249 0B		DB 0BH
024A	CODE	ENDS
		END

Structures and records:

	Name	Width	# fields	Shift	Width	Mask	Initial
DBP.		001E	000D				
JMPNEAR.		0000					
NAMEVER.		0003					
SECSIZE.		000B					
ALLOC.		000D					
RESSEC		000E					
FATS		0010					
MAXDIR		0011					
SECTORS.		0013					
MEDIAID.		0015					
FATSEC		0016					
SECTRK		0018					
HEADS.		001A					
HIDDEN		001C					
IODAT.		0016	0009				
CMDLEN		0000					
UNIT		0001					
CMD.		0002					
STATUS		0003					
MEDIA.		000D					
TRANS.		000E					
COUNT.		0012					
START.		0014					

Segments and groups:

	Name	Size	align	combine class
CODE		024A	PARA	NONE

Symbols:

	Name	Type	Value	Attr
BADSIZ		L NEAR	016F	CODE
BIT0		Number	0001	
BIT1		Number	0002	
BIT10		Number	0400	
BIT11		Number	0800	
BIT12		Number	1000	
BIT13		Number	2000	
BIT14		Number	4000	
BIT15		Number	8000	
BIT2		Number	0004	
BIT3		Number	0008	
BIT4		Number	0010	
BIT5		Number	0020	
BIT6		Number	0040	
BIT7		Number	0080	
BIT8		Number	0100	
BIT9		Number	0200	

Structures and records:

	Name	Width	# fields	Shift	Width	Mask	Initial
DBP.		001E	000D				
JMPNEAR.		0000					
NAMEVER.		0003					
SECSIZE.		000B					
ALLOC.		000D					
RESSEC		000E					
FATS		0010					
MAXDIR		0011					
SECTORS.		0013					
MEDIAID.		0015					
FATSEC		0016					
SECTRK		0018					
HEADS.		001A					
HIDDEN		001C					
IODAT.		0016	0009				
CMDLEN		0000					
UNIT		0001					
CMD.		0002					
STATUS		0003					
MEDIA.		000D					
TRANS.		000E					
COUNT.		0012					
START.		0014					

Segments and groups:

	Name	Size	align	combine class
CODE		024A	PARA	NONE

Symbols:

	Name	Type	Value	Attr
BADSIZ		L NEAR	016F	CODE
BIT0		Number	0001	
BIT1		Number	0002	
BIT10		Number	0400	
BIT11		Number	0800	
BIT12		Number	1000	
BIT13		Number	2000	
BIT14		Number	4000	
BIT15		Number	8000	
BIT2		Number	0004	
BIT3		Number	0008	
BIT4		Number	0010	
BIT5		Number	0020	
BIT6		Number	0040	
BIT7		Number	0080	
BIT8		Number	0100	
BIT9		Number	0200	

BUS_EXIT	L NEAR 007B	CODE
CMDERR	L NEAR 007F	CODE
DERROR	L NEAR 014E	CODE
DERROR2.	L NEAR 0163	CODE
DERROR3.	L NEAR 0171	CODE
DERRTAB.	L BYTE 0176	CODE
DOIT	L NEAR 0079	CODE
DSKDEV	L NEAR 0000	CODE
DSK_COM.	L NEAR 00E1	CODE
DSK_INI.	L NEAR 0183	CODE
DSK_INT.	L NEAR 003C	CODE
DSK_IN_1	L NEAR 0193	CODE
DSK_RED.	L NEAR 00D7	CODE
DSK_TBL.	L NEAR 0013	CODE
DSK_WRT.	L NEAR 00DD	CODE
DSK_WRV.	L NEAR 00DD	CODE
ENTRY	L NEAR 0040	CODE
ERR_EXIT	L NEAR 0081	CODE
EXIT	L NEAR 0086	CODE
EXIT1.	L NEAR 0088	CODE
EXITP.	F PROC 0086	CODE
GET_BPB.	L NEAR 00C7	CODE
GET_IT	L NEAR 010B	CODE
HDDRIVE.	L 001E 009A	CODE
HD_INIT.	Number 0014	
HD_READ.	Number 0010	
HD_STS	Number 0012	
HD_WRIT.	Number 0011	
INDAT1	L NEAR 0126	CODE
INDAT2	L NEAR 010B	CODE
INDAT3	L NEAR 0115	CODE
INDAT4	L NEAR 01A2	CODE
INITAB.	L WORD 00B8	CODE
MEDIAC	L NEAR 00BC	CODE
MEMMAX	L BYTE 000A	CODE
OUTCHR	L NEAR 0235	CODE
OUTDAT	L NEAR 0146	CODE
PIDIN.	Number FFEA	
PIDOUT	Number FFEA	
PIOSTS	Number FFE9	
PRINT.	L NEAR 021E	CODE
PRINT1	L NEAR 0223	CODE
PTRSAV	L DWORD 002D	CODE
STRATEGY	L NEAR 0031	CODE
STRATP	F PROC 0031	CODE
WINEXI	L NEAR 0122	CODE
WINSTS	L BYTE 0012	CODE
WINTAB	L NEAR 0242	CODE
WRTWI1	L NEAR 013A	CODE
WRTWIN	L NEAR 0134	CODE
Y.	Number 0000	

Length =0014

Length =000B

Warning Severe

Errors Errors

0 0

The Microsoft MACRO Assembler
W2X1SQ.SYS for the alphaTronic P30 + R0204 (REST)

10-08-85

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