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5  ONERR GOTO 9200
10 PE = PEEK( 175 ) + PEEK( 176 ) * 256
   DI = 25856
   SD = 24576
15 AF% = 129
   CR% = 519
   DI% = 3233
20 FS% = 83
   IC% = 33
   MM% = 93
25 RW% = 185
   SD% = 1186
   SS% = 342
30 SS = PE - SS%
   SX = SS - SD%
   RW = SX - RW%
35 MM = RW - MM%
   IC = MM - IC%
   FS = IC - FS%
40 DX = FS - DI%
   CR = DX - CR%
   AF = CR - AF%
45 AD = 512
   ND = 1
   PS = 1
50 MS = 29184
   ME = PEEK( 115 ) + PEEK( 116 ) * 256 - 512
55 DIM F$( 50 ), T$( 50 ), S$( 50 ), I$( 50 ), BF$( 15 ), BL( 15 )
60 D$ = CHR$( 4 )
   SS$ = "
65 S% = SX
   D% = SD
   N% = SD%
   CALL MM, S%, D%, N%
70 S% = DX
   D% = DI
   N% = DI%
   CALL MM, S%, D%, N%
75 POKE - 16304, 0
   POKE - 16302, 0
   POKE - 16299, 0
   POKE - 16297, 0
80 GOSUB 110
   L% = 8
   GOSUB 900
82 S$ = "DOS 4.5.06 02/14/24"
   L% = 10
   W% = 13
   C% = 6
   GOSUB 100
85 S$ = "Copyright (c) 2024 by"
   L% = 15
   W% = 13
   C% = 2
   GOSUB 100
90 S$ = "Walland Philip Vrbancic, Jr."
   L% = 17
   W% = 11
   C% = 5
   GOSUB 100
95 CALL IC, A%
   GOTO 1000
100 CALL SD, S$, , L%, W%, C%, I%
   RETURN
110 S$ = ""
   H% = 64

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CALL SD, S$, H%
HOME
RETURN
150 IF P% = 1 THEN 100
160 RETURN
170 A = LEN( S$ )
PRINT SPC( 6 - A )S$
IF P% = 1 THEN J = 0
FOR K = 1 TO A
    J = J + 5 - ( MID$( S$, K, 1 ) = "1" )
NEXT
K = ( 25 - J ) / 7
W% = 30 + K
C% = ( K - INT( K ) ) * 7
GOTO 100
180 RETURN
200 IF T% > 39 OR S% > 15 THEN 220
210 CALL RW, T%, S%, E%, , , , D%
IF E% = 0 THEN RETURN
220 POP
GOTO 9200
250 IF T% > 39 OR S% > 15 THEN 220
260 C% = 2
CALL RW, T%, S%, E%, , C%
C% = 1
IF E% < > 0 THEN 220
270 RETURN
300 GOSUB 110
310 S$ = "Reading Disk Catalog"
L% = 11
W% = 13
C% = 5
GOSUB 100
320 N% = 0
T% = 17
S% = 0
GOSUB 200
IF F% = 2 THEN CALL FS, X%
IF X% < 2 THEN POP
GOTO 9100
330 T% = PEEK( AD + 1 )
S% = PEEK( AD + 2 )
GOSUB 200
340 CALL CR, F$( N% ), N%, E%, , F%, , T%( N% ), S%( N% )
IF E% = 1 THEN 330
350 NF = N% - 1
IF NF < 0 THEN RETURN
360 A% = 0
B% = NF
CALL SS, F$( A% ), I%( A% ), A%, B%
400 PG = 0
N = 0
L = 0
410 GOSUB 110
S$ = "File Selection"
L% = 0
W% = 15
C% = 6
GOSUB 100
420 J = PG * 40
FOR I = J TO J + 39
    IF I > NF THEN 440
430 S$ = F$( I%( I ) )
GOSUB 540
440 NEXT
450 F$ = F$( I%( N ) )

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S$ = F$
I% = 1
GOSUB 530
460 CALL IC, A%
IF A% = 13 OR A% = 27 THEN RETURN
470 IF A% = 21 THEN N = ( N + 1 ) * ( N < NF )
GOTO 500
480 IF A% < > 8 THEN 460
490 N = N - 1
IF N < 0 THEN N = NF
500 S$ = F$ + " "
GOSUB 530
510 A = N / 40
B = INT( A )
L = INT( ( A - B ) * 40.01 )
IF PG = B THEN 450
520 PG = B
GOTO 410
530 I = L
540 II = I / 2
L% = II + 3
W% = 20 * ( INT( II ) < > II )
C% = 0
GOTO 100
600 S$ = LEFT$( SS$, S )
W% = 9
C% = 4
I% = 1
GOTO 100
700 GOSUB 110
710 S$ = "the"
L% = 8
W% = 7
C% = 0
GOSUB 920
720 S$ = "Applesoft Program to be Appended into Drive 1"
L% = 10
W% = 5
C% = 3
GOSUB 100
730 L% = 15
GOSUB 940
L% = 17
GOSUB 930
740 CALL IC, A%
IF A% = 27 THEN POP
GOTO 1000
750 RETURN
800 T% = T%( I%( N ) )
S% = S%( I%( N ) )
GOSUB 200
810 T% = PEEK( AD + 12 )
S% = PEEK( AD + 13 )
GOSUB 200
820 RETURN
900 S$ = "Binary File Installation"
W% = 12
C% = 5
GOTO 100
910 S$ = "Please Select desired Function"
W% = 10
C% = 3
GOTO 100
920 S$ = "Please Insert the Diskette containing " + S$
GOTO 100
930 S$ = "Press ESC to Restart"

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W% = 12
C% = 6
GOTO 100
940 S$ = "Press Any Key to Continue"
W% = 11
C% = 6
GOTO 100
1000 GOSUB 110
MP = MS
NB = 0
1010 L% = 2
GOSUB 900
L% = 7
GOSUB 910
1020 S$ = "using the <- or -> keys."
L% = 9
W% = 11
C% = 6
GOSUB 100
1030 S$ = "The RETURN key Enters the Selection."
L% = 13
W% = 8
C% = 2
GOSUB 100
1040 S$ = "Hardware"
L% = 18
W% = 7
C% = 1
GOSUB 100
1050 S$ = "Install"
W% = 17
C% = 6
GOSUB 100
1060 P% = 0
CALL DI, P%
IF P% = 155 THEN 1000
1070 ON P% + 1 GOTO 2000, 3000, 9000
2000 GOSUB 110
2010 S$ = "Peripheral Selection"
L% = 2
W% = 13
C% = 4
GOSUB 100
2020 S$ = "Number of Disk Drives"
L% = 6
W% = 13
C% = 3
GOSUB 100
2030 P% = 3
CALL DI, P%
IF P% = 155 THEN 1000
2040 ND = P% + 1
2050 S$ = "Printer Slot"
L% = 17
W% = 16
C% = 1
GOSUB 100
2060 P% = 4
CALL DI, P%
IF P% = 155 THEN 1000
2070 PS = P% + ( P% = 6 )
2080 GOTO 1000
3000 GOSUB 700
3010 F% = 2
D% = 1
GOSUB 300

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IF A% = 27 THEN 1000
3020 IF NF < 0 THEN 9300
3030 AF$ = F$( I%( N ) )
PRINT D$; "VERIFY"; AF$; ",D1"
3040 TA = T%( I%( N ) )
SA = S%( I%( N ) )
GOSUB 800
TB = T%
SB = S%
AL = PEEK( AD ) + PEEK( AD + 1 ) * 256
4000 GOSUB 110
4010 S$ = "a"
L% = 8
W% = 7
C% = 5
GOSUB 920
4020 S$ = "Binary File to Install into Drive " + STR$( ND )
L% = 10
W% = 9
C% = 4
GOSUB 100
4030 L% = 15
GOSUB 940
L% = 17
GOSUB 930
4040 CALL IC, A%
IF A% = 27 AND NB = 0 THEN 1000
4050 IF A% = 27 THEN 5000
4060 F% = 4
D% = ND
GOSUB 300
IF A% < > 27 THEN 5520
5000 GOSUB 110
5010 S$ = "Intermediate Installation"
L% = 2
W% = 11
C% = 6
GOSUB 100
5020 S$ = "Free Memory:"
L% = 8
W% = 0
C% = 0
GOSUB 100
5030 S$ = "Disk Space:"
L% = 10
W% = 0
C% = 0
GOSUB 100
5040 S = ( ME - MP ) * 48 / ( ME - MS )
L% = 8
IF S = > 1 THEN GOSUB 600
5050 S = ( X% - ( MP - MS ) / 256 ) * 48 / 560
L% = 10
IF S = > 1 THEN GOSUB 600
5060 L% = 15
GOSUB 910
5070 S$ = "Install"
L% = 18
W% = 3
C% = 2
GOSUB 100
5080 S$ = "Another"
W% = 12
C% = 5
GOSUB 100
5090 S$ = "New Disk"

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W% = 22
C% = 3
GOSUB 100
5100 P% = 1
CALL DI, P%
IF P% = 155 THEN 1000
5110 ON P% + 1 GOTO 6000, 5500, 4000, 9000
5500 IF X% - ( MP - MS ) / 256 < 2 OR NB > 15 THEN CALL - 198
GOTO 5100
5510 GOSUB 400
IF A% = 27 THEN 5000
5520 IF NF < 0 THEN 9400
5530 BF$( NB ) = F$( I%( N ) )
PRINT D$; "VERIFY"; BF$( NB ); ",D"; ND
5540 GOSUB 800
BL( NB ) = PEEK( AD + 2 ) + PEEK( AD + 3 ) * 256
5550 IF MP + BL( NB ) > ME THEN CALL - 198
GOTO 5000
5560 PRINT D$; "BLOAD"; BF$( NB ); ",A"; MP
5570 MP = MP + BL( NB )
NB = NB + 1
GOTO 5000
6000 IF ND = 1 THEN GOSUB 700
6010 GOSUB 110
F% = 2
D% = 1
6020 S$ = "Performing the Installation"
L% = 11
W% = 11
C% = 1
GOSUB 100
6030 ONERR GOTO 6120
6040 PRINT D$; "VERIFY"; AF$; ",D1"
6050 ONERR GOTO 9200
6060 T% = 17
S% = 0
GOSUB 200
6070 T% = PEEK( AD + 1 )
S% = PEEK( AD + 2 )
GOSUB 200
6080 N% = 0
CALL CR, F$( N% ), N%, E%, , F%
IF N% = 0 THEN 6110
6090 A = 0
FOR I = 0 TO N% - 1
    IF A = 0 THEN IF AF$ = F$( I ) THEN A = 1
6100 NEXT
IF A = 1 THEN 6500
6110 IF E% = 1 THEN 6070
6120 POKE 216, 0
ONERR GOTO 9200
6130 GOSUB 700
GOTO 6010
6500 GOSUB 200
TT% = T%
SS% = S%
FF$ = AF$ + " "
L = LEN( FF$ )
A = 0
6510 FOR I = AD + 13 TO AD + 223 STEP 35
    IF A > 0 THEN 6540
6520 B = 0
FOR J = 1 TO L
    IF B = 0 THEN IF MID$( FF$, J, 1 ) < > CHR$( PEEK( I + J ) - 128 )
        THEN B = 1
6530 NEXT

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IF B = 0 THEN A = I - 2
6540 NEXT
IF A = 0 THEN 6110
6550 IF PEEK( A ) < > TA OR PEEK( A + 1 ) < > ( SA ) THEN 6110
6560 POKE A + 2, 0
C% = 2
GOSUB 250
6570 PRINT D$; "OPEN"; AF$
6580 BO% = AL + 2
NB% = MP - MS
SA% = MS
CALL AF, BO%, NB%, SA%, E%
IF E% < > 0 THEN 9200
6590 PRINT D$; "CLOSE"
6600 L = AL + NB%
P = L / 256
J = ( INT( P ) + 2 + INT( P / 122 ) ) / 256
I = ( J - INT( J ) ) * 256
6610 GOSUB 200
POKE A + 2, 130
POKE A + 33, I
POKE A + 34, J
GOSUB 250
6620 T% = TB
S% = SB
GOSUB 200
6630 POKE AD, ( P - INT( P ) ) * 256
POKE AD + 1, P
GOSUB 250
7000 GOSUB 110
7010 S$ = "Complete Installation"
L% = 2
W% = 13
C% = 0
GOSUB 100
7020 L% = 10
GOSUB 910
L% = 13
GOSUB 930
7030 S$ = "Report"
L% = 18
W% = 7
C% = 6
GOSUB 100
7040 W% = 17
C% = 6
GOSUB 100
7050 P% = 2
CALL DI, P%
IF P% = 155 THEN 1000
7060 ON P% + 1 GOTO 7500, 8000, 9000
7500 IF PS = 0 THEN CALL - 198
GOTO 7000
7510 PRINT D$; "PR#"; PS
GOTO 8010
8000 GOSUB 110
8010 S$ = "Binary File Installation Report"
PRINT SPC( 22 )S$
PRINT
L% = 0
W% = 10
C% = 2
GOSUB 150
8020 S$ = "*** Applesoft File ***"
PRINT S$ SPC( 31 )
L% = 2

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W% = 0
C% = 0
GOSUB 150
8030 S$ = "Length in Bytes"
PRINT S$
W% = 27
C% = 0
GOSUB 150
8040 S$ = AF$
PRINT S$ SPC( 57 - LEN( S$ ) )
L% = 3
W% = 0
C% = 0
GOSUB 150
8050 S$ = STR$( AL )
L% = 3
GOSUB 170
PRINT
8060 S$ = "*** Binary Files ***"
PRINT S$
L% = 5
W% = 0
C% = 0
GOSUB 150
8070 FOR I = 0 TO NB - 1
    S$ = BF$( I )
    PRINT S$ SPC( 57 - LEN( S$ ) )
    L% = I + 6
    W% = 0
    C% = 0
    GOSUB 150
    S$ = STR$( BL( I ) )
    GOSUB 170
NEXT
PRINT
8080 S$ = "Total:"
PRINT SPC( 50 )S$ SPC( 1 )
L% = L% + 2
W% = 25
C% = 0
GOSUB 150
S$ = STR$( L )
GOSUB 170
8090 IF P% = 0 THEN PRINT D$; "PR#0"
GOTO 7000
8100 CALL IC, A%
GOTO 7000
9000 PRINT
HOME
POKE - 16303, 0
POKE - 16300, 0
9010 CALL 1002
9020 PRINT D$; "CAT"
PRINT
9030 END
9100 GOSUB 110
9110 S$ = "Insufficient Disk Space Exists"
L% = 7
W% = 11
C% = 0
GOSUB 100
9120 S$ = "To Perform this Installation."
L% = 10
W% = 10
C% = 6
GOSUB 100

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9130  L% = 15
      GOSUB 940
9140  CALL IC, A%
      GOTO 1000
9200  GOSUB 110
9210  S$ = "Unable to perform Disk access!"
      L% = 7
      W% = 10
      C% = 3
      GOSUB 100
9220  S$ = "***  DISK ERROR  ***"
      L% = 10
      W% = 13
      C% = 2
      GOSUB 100
9230  L% = 15
      GOSUB 940
9240  CALL IC, A%
      ON F% / 2 GOTO 1000, 5000
9300  GOSUB 110
9310  S$ = "There are no Applesoft Files on this Diskette"
      L% = 9
      W% = 5
      C% = 6
      GOSUB 100
9320  L% = 15
      GOSUB 940
9330  CALL IC, A%
      GOTO 3000
9400  GOSUB 110
9410  S$ = "There are no Binary Files on this Diskette"
      L% = 9
      W% = 7
      C% = 1
      GOSUB 100
9420  L% = 15
      GOSUB 940
9430  CALL IC, A%
      GOTO 5000
10000 REM  *
10010 REM  *      Binary File Installation      *
10020 REM  *
10030 REM  *      Copyright (c) 2024 by          *
10040 REM  *      Walland Philip Vrbancic, Jr.  *
10050 REM  *
10060 REM  *      WARNING:  This program uses    *
10070 REM  *      installed machine language    *
10080 REM  *      subroutines.  Any change to    *
10090 REM  *      this program may cause disk   *
10100 REM  *      damage or undesirable results *
10110 REM  *      and copyright violation.      *
10120 REM  *

```

