

🍏 Apple Lisa Computer
Technical Information



Apple Lisa Computer: SYSTEM.LLD (Low-Level Drivers) Disassembly

Lisa Computer:
1983 - 1985

MacComDisk:Lisa System.LLD.Asm.TEXT

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Lisa ASSEMBLER - MC68000 (Ver 3.77) 02-May-85
(C) 1984 Apple Computer Inc.

Options:	Meaning	Current Value.
+P	Pretty Listing	FALSE
+S	Print Space Avail	FALSE
+E	Code patching efficiency check	FALSE
?	Print options	
<ret>	Accept options	

Input file ? [.TEXT] System.LLD.Asm

[illegible]

#358

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0000| 0000 0098      nSetLegends      .EQU    152    ; ???
0000| 0000 009A      nMicroTimer     .EQU    154    ; ???
0000| 0000 009C      nCursorReInit   .EQU    156    ; ???
0000| 0000 009E      nPoll           .EQU    158    ; ???
0000| 0000 00A0      nToggleKey      .EQU    160    ; ???
0000| 0000 00A2      nSetToggleKey   .EQU    162    ; ???
0000| 0000 00A4      nSys_A4_Call     .EQU    164    ; ???
0000| 0000 00A6      nSys_A6_Call     .EQU    166    ; ???
0000| 0000 00A8      nMouseOdometer   .EQU    168    ; ???
0000| 0000 00AA      nCOPSSync       .EQU    170    ; ???
0000| 0000 00AC      nSys_AC_Call     .EQU    172    ; ???
0000| 0000 00AE      nSys_AE_Call     .EQU    174    ; ???
0000| 0000 00B0      nSys_B0_Call     .EQU    176    ; ???
0000| 0000 00B2      nSys_B2_Call     .EQU    178    ; ???
0000|
0000|      ; *****
0000|      ; * Constants
0000|      ; *****
0000|
0000|      ; Screen pixel dimensions
0000|      ;
0000|      ; Note: These are hard coded into the source in routine iScreenSize
0000|
0000| 0000 02D0      kScrnHSize      .EQU    720    ; horizontal pixel length of screen
0000| 0000 016C      kScrnVSize      .EQU    364    ; vertical pixel length of screen
0000|
0000|      ; *****
0000|      ; * Low Memory Variables
0000|      ; *****
0000|
0000| 0000 0094      lmTRAP5Vector   .EQU    $0094    ; TRAP # 5 vector address
0000| 0000 0110      lmAltScreenAddr .EQU    $0110    ; alternate screen bitmap address
0000| 0000 0160      lmScreenAddr    .EQU    $0160    ; primary screen bitmap address
0000|
0000| 0000 0174      lm0174          .EQU    $0174    ; ???
0000| 0000 0170      lm0170          .EQU    $0170    ; ???
0000| 0000 02A4      lm02A4          .EQU    $02A4    ; ???
0000|
0000|      ; *****
0000|      ; * I/O Addresses
0000|      ; *****
0000|
0000|      ; NOTE: REPLACE THESE I/O ADDRESS NAMES BY MORE MEANINGFUL NAMES
0000|
0000| 00CC 0000      ioCC0000       .EQU    $00CC0000 ; ???
0000| 00CC 0002      ioCC0002       .EQU    $00CC0002 ; ???
0000| 00CC 0004      ioCC0004       .EQU    $00CC0004 ; ???
0000| 00CC 0006      ioCC0006       .EQU    $00CC0006 ; ???
0000| 00CC 0008      ioCC0008       .EQU    $00CC0008 ; ???
0000| 00CC 0009      ioCC0009       .EQU    $00CC0009 ; ???
0000| 00CC 000A      ioCC000A       .EQU    $00CC000A ; ???
0000| 00CC 000B      ioCC000B       .EQU    $00CC000B ; ???
0000| 00CC 000C      ioCC000C       .EQU    $00CC000C ; twiggly disk driver entry address
0000| 00CC 0010      ioCC0010       .EQU    $00CC0010 ; disk driver entry address
0000| 00CC 0014      ioCC0014       .EQU    $00CC0014 ; busy flag for DiskSync call
0000| 00CC 0015      ioCC0015       .EQU    $00CC0015 ; ???
0000| 00CC 0016      ioCC0016       .EQU    $00CC0016 ; sync for NMI (NMISync call)
0000| 00CC 001A      ioCC001A       .EQU    $00CC001A ; ???
0000| 00CC 001E      ioCC001E       .EQU    $00CC001E ; ???
0000| 00CC 0022      ioCC0022       .EQU    $00CC0022 ; ???
0000| 00CC 0026      ioCC0026       .EQU    $00CC0026 ; ???
0000| 00CC 003C      ioCC003C       .EQU    $00CC003C ; ???
0000| 00CC 0090      ioCC0090       .EQU    $00CC0090 ; ???
0000| 00CC 00E4      ioCC00E4       .EQU    $00CC00E4 ; ???
0000| 00CC 00E5      ioCC00E5       .EQU    $00CC00E5 ; ???
0000| 00CC 00E6      ioCC00E6       .EQU    $00CC00E6 ; ???
0000| 00CC 00E8      ioCC00E8       .EQU    $00CC00E8 ; ???
0000| 00CC 00EC      ioCC00EC       .EQU    $00CC00EC ; ???
0000| 00CC 00F0      ioCC00F0       .EQU    $00CC00F0 ; ???
0000| 00CC 00F2      ioCC00F2       .EQU    $00CC00F2 ; ???
0000| 00CC 00F4      ioCC00F4       .EQU    $00CC00F4 ; ???
0000| 00CC 00F5      ioCC00F5       .EQU    $00CC00F5 ; ???
0000| 00CC 00F6      ioCC00F6       .EQU    $00CC00F6 ; ???
0000| 00CC 00F8      ioCC00F8       .EQU    $00CC00F8 ; ???
0000| 00CC 00FA      ioMouseOdometer .EQU    $00CC00FA ; ???
0000| 00CC 00FE      ioCC00FE       .EQU    $00CC00FE ; ???
0000| 00CC 0100      ioCC0100       .EQU    $00CC0100 ; ???
0000| 00CC 0140      ioCC0140       .EQU    $00CC0140 ; ???
0000| 00CC 0180      ioCC0180       .EQU    $00CC0180 ; ???
0000| 00CC 0182      ioCC0182       .EQU    $00CC0182 ; ???
0000| 00CC 0184      ioCC0184       .EQU    $00CC0184 ; ???
0000| 00CC 0186      ioCC0186       .EQU    $00CC0186 ; ???
0000| 00CC 01C6      ioCC01C6       .EQU    $00CC01C6 ; ???
0000| 00CC 0206      ioCC0206       .EQU    $00CC0206 ; ???
0000| 00CC 0208      ioCC0208       .EQU    $00CC0208 ; ???
0000| 00CC 020A      ioCC020A       .EQU    $00CC020A ; ???

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0000| 00CC 020C      ioCC020C      .EQU    $00CC020C ; ???
0000| 00CC 020E      ioCC020E      .EQU    $00CC020E ; ???
0000| 00CC 0210      ioCC0210      .EQU    $00CC0210 ; ???
0000| 00CC 0212      ioCC0212      .EQU    $00CC0212 ; ???
0000| 00CC 0213      ioCC0213      .EQU    $00CC0213 ; ???
0000| 00CC 0214      ioCC0214      .EQU    $00CC0214 ; ???
0000| 00CC 0216      ioCC0216      .EQU    $00CC0216 ; ???
0000| 00CC 0218      ioCC0218      .EQU    $00CC0218 ; ???
0000| 00CC 021A      ioCC021A      .EQU    $00CC021A ; ???
0000| 00CC 029A      ioCC029A      .EQU    $00CC029A ; ???
0000| 00CC 029C      ioCC029C      .EQU    $00CC029C ; ???
0000| 00CC 029E      ioCC029E      .EQU    $00CC029E ; ???
0000| 00CC 02A0      ioCC02A0      .EQU    $00CC02A0 ; ???
0000| 00CC 02A4      ioCC02A4      .EQU    $00CC02A4 ; ???
0000| 00CC 02A8      ioScreenKeybd .EQU    $00CC02A8 ; ???
0000| 00CC 02AA      ioCC02AA      .EQU    $00CC02AA ; ???
0000| 00CC 02AC      ioCC02AC      .EQU    $00CC02AC ; ???
0000| 00CC 02AE      ioCC02AE      .EQU    $00CC02AE ; ???
0000| 00CC 02B0      ioCC02B0      .EQU    $00CC02B0 ; ???
0000| 00CC 02B2      ioCC02B2      .EQU    $00CC02B2 ; ???
0000| 00CC 02B4      ioCC02B4      .EQU    $00CC02B4 ; ???
0000| 00CC 02B6      ioCC02B6      .EQU    $00CC02B6 ; ???
0000| 00CC 02BA      ioCC02BA      .EQU    $00CC02BA ; ???
0000| 00CC 02BC      ioCC02BC      .EQU    $00CC02BC ; ???
0000| 00CC 02BE      ioCC02BE      .EQU    $00CC02BE ; ???
0000| 00CC 02C0      ioCC02C0      .EQU    $00CC02C0 ; ???
0000| 00CC 02C2      ioCC02C2      .EQU    $00CC02C2 ; ???
0000| 00CC 02C6      ioCC02C6      .EQU    $00CC02C6 ; ???
0000| 00CC 02CA      ioCC02CA      .EQU    $00CC02CA ; ???
0000| 00CC 02CE      ioCC02CE      .EQU    $00CC02CE ; ???
0000| 00CC 02CF      ioKeyBdID     .EQU    $00CC02CF ; ???
0000| 00CC 02D0      ioNMIKeyCode  .EQU    $00CC02D0 ; ???
0000| 00CC 02D1      ioCC02D1      .EQU    $00CC02D1 ; ???
0000| 00CC 02D2      ioCC02D2      .EQU    $00CC02D2 ; ???
0000| 00CC 05D2      ioCC05D2      .EQU    $00CC05D2 ; ???
0000| 00CC 05D6      ioCC05D6      .EQU    $00CC05D6 ; ???
0000| 00CC 05DA      ioCC05DA      .EQU    $00CC05DA ; ???
0000| 00CC 05DE      ioCC05DE      .EQU    $00CC05DE ; ???
0000| 00CC 05E2      ioCC05E2      .EQU    $00CC05E2 ; ???
0000| 00CC 05E4      ioCC05E4      .EQU    $00CC05E4 ; ???
0000| 00CC 05E8      ioCC05E8      .EQU    $00CC05E8 ; ???
0000| 00CC 05EA      ioCC05EA      .EQU    $00CC05EA ; ???
0000| 00CC 05EB      ioCC05EB      .EQU    $00CC05EB ; ???
0000| 00CC 05EC      ioCC05EC      .EQU    $00CC05EC ; ???
0000| 00CC 05ED      ioCC05ED      .EQU    $00CC05ED ; ???
0000| 00CC 05EE      ioCC05EE      .EQU    $00CC05EE ; ???
0000| 00CC 05F0      ioCC05F0      .EQU    $00CC05F0 ; ???
0000| 00CC 05F2      ioCC05F2      .EQU    $00CC05F2 ; ???
0000| 00CC 05F6      ioCC05F6      .EQU    $00CC05F6 ; ???
0000| 00CC 05F7      ioCC05F7      .EQU    $00CC05F7 ; ???
0000| 00CC 0602      ioCC0602      .EQU    $00CC0602 ; ???
0000| 00CC 0603      ioCC0603      .EQU    $00CC0603 ; ???
0000| 00CC 0604      ioCC0604      .EQU    $00CC0604 ; ???
0000| 00CC 0606      ioCC0606      .EQU    $00CC0606 ; ???
0000| 00CC 0608      ioCC0608      .EQU    $00CC0608 ; ???
0000| 00CC 060A      ioCC060A      .EQU    $00CC060A ; ???
0000| 00CC 060E      ioCC060E      .EQU    $00CC060E ; ???
0000| 00CC 060F      ioCC060F      .EQU    $00CC060F ; ???
0000| 00CC 0610      ioCC0610      .EQU    $00CC0610 ; ???
0000| 00CC 0614      ioCC0614      .EQU    $00CC0614 ; ???
0000| 00CC 0618      ioCC0618      .EQU    $00CC0618 ; ???
0000| 00CC 061C      ioCC061C      .EQU    $00CC061C ; ???
0000| 00CC 0620      ioCC0620      .EQU    $00CC0620 ; ???
0000| 00CC 0622      ioCC0622      .EQU    $00CC0622 ; ???
0000| 00CC 0624      ioCC0624      .EQU    $00CC0624 ; ???
0000| 00CC 07A4      ioCC07A4      .EQU    $00CC07A4 ; ???
0000| 00CC 07A6      ioCC07A6      .EQU    $00CC07A6 ; ???
0000| 00CC 07A8      ioCC07A8      .EQU    $00CC07A8 ; ???
0000| 00CC 0868      ioCC0868      .EQU    $00CC0868 ; ???
0000|
0000|      ; I/O space
0000|
0000| 00FC C031      ioFCC031      .EQU    $00FCC031 ; ???
0000| 00FC D01C      ioVideoContLatc .EQU    $00FCD01C ; video contrast latch clock input
0000| 00FC D901      ioVIA2Base     .EQU    $00FCD901 ; base address for VIA 2 (ORB2)
0000| 00FC D921      ioFCD921      .EQU    $00FCD921 ; ???
0000| 00FC D929      ioFCD929      .EQU    $00FCD929 ; ???
0000| 00FC D939      ioFCD939      .EQU    $00FCD939 ; ???
0000| 00FC D969      ioFCD969      .EQU    $00FCD969 ; ???
0000| 00FC D971      ioFCD971      .EQU    $00FCD971 ; ???
0000| 00FC DD81      ioVIA1Base     .EQU    $00FCD81 ; base address for VIA 1 (ORB1)
0000| 00FC DD83      ioFCD83      .EQU    $00FCD83 ; ???
0000| 00FC DD97      ioFCD97      .EQU    $00FCD97 ; ???
0000| 00FC DD9B      ioFCD9B      .EQU    $00FCD9B ; ???
0000| 00FC E010      ioSetSETUP     .EQU    $00FCE010 ; set SETUP register
0000| 00FC E012      ioResetSETUP   .EQU    $00FCE012 ; reset SETUP register

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0000| 00FC E018          ioVideoVerReset .EQU    $00FCE018 ; reset video retrace interrupt
0000| 00FC E800          ioVideoAddress .EQU    $00FCE800 ; video address latch
0000| 00FC F801          ioFCF801 .EQU    $00FCF801 ; ???
0000|
0000| ; |||||
0000| ; | ROUTINE : LLD_Init
0000| ; |||||
0000|
0000| LLD_Init: ; L00008
0000|
0000| 4EBA 0112          JSR      iDriverInit
0004| 4E75              RTS
0006|
0006| 48 61 72 64 77 61 72      .ASCII 'Hardware Interface 9.3, Oct 28, 1983 '
000D| 65 20 49 6E 74 65 72
0014| 66 61 63 65 20 39 2E
001B| 33 2C 20 4F 63 74 20
0022| 20 32 38 2C 20 31 39
0029| 38 33 20
002C| 43 6F 70 79 72 69 67      .ASCII 'Copyright 1983, Apple Computer Inc. '
0033| 68 74 20 31 39 38 33
003A| 2C 20 41 70 70 6C 65
0041| 20 43 6F 6D 70 75 74
0048| 65 72 20 49 6E 63 2E
004F| 20
0050|
0050| 4E56 0000          LINK     A6,#0          ; create an empty stack frame
0054|
0054| ; |||||
0054| ; | ROUTINE : LLD_Entry
0054| ; |||||
0054|
0054| LLD_Entry:
0054|
0054| 3E3B 7008          MOVE.W   SysCallTable(D7.W),D7 ; fetch the routine table offset
0058| 4EBB 7004          JSR      SysCallTable(D7.W) ; call the routine
005C|
005C| 4E73              RTE          ; return to TRAP #5 caller
005E|
005E| ; System call entry address calculated as follows
005E| ;
005E| ; entry_address := table_value + $66
005E|
005E| SysCallTable:
005E|
005E| ; NOTE: THIS TABLE SHOULD REALLY CONSIST OF OFFSETS COMPUTED FROM THE
005E| ; TABLE BASE TO THE ACTUAL ROUTINE AND NOT RAW VALUES.
005E|
005E| 00B6              .WORD $00B6 ; Call # $00/ 0 - DriverInit (Address = 011C)
0060| 0818              .WORD $0818 ; Call # $02/ 2 - MouseLocation (Address = 087E)
0062| 0824              .WORD $0824 ; Call # $04/ 4 - MouseUpdates (Address = 088A)
0064| 085C              .WORD $085C ; Call # $06/ 6 - MouseScaling (Address = 08C2)
0066| 0864              .WORD $0864 ; Call # $08/ 8 - MouseThresh (Address = 08CA)
0068| 09AC              .WORD $09AC ; Call # $0A/ 10 - CursorLocation (Address = 0A12)
006A| 0A1E              .WORD $0A1E ; Call # $0C/ 12 - CursorTracking (Address = 0A84)
006C| 0948              .WORD $0948 ; Call # $0E/ 14 - CursorImage (Address = 09AE)
006E| 0A3C              .WORD $0A3C ; Call # $10/ 16 - CursorHide (Address = 0AA2)
0070| 0A88              .WORD $0A88 ; Call # $12/ 18 - CursorShield (Address = 0AEE)
0072| 0AE2              .WORD $0AE2 ; Call # $14/ 20 - CursorDisplay (Address = 0B48)
0074| 0D34              .WORD $0D34 ; Call # $16/ 22 - FrameCounter (Address = 0D9A)
0076| 0D46              .WORD $0D46 ; Call # $18/ 24 - ScreenAddr (Address = 0DAC)
0078| 0D4C              .WORD $0D4C ; Call # $1A/ 26 - AltScreenAddr (Address = 0DB2)
007A| 0D7E              .WORD $0D7E ; Call # $1C/ 28 - Contrast (Address = 0DE4)
007C| 0D86              .WORD $0D86 ; Call # $1E/ 30 - SetContrast (Address = 0DEC)
007E| 0DB0              .WORD $0DB0 ; Call # $20/ 32 - RampContrast (Address = 0E16)
0080| 0EB2              .WORD $0EB2 ; Call # $22/ 34 - FadeDelay (Address = 0F18)
0082| 0EBA              .WORD $0EBA ; Call # $24/ 36 - SetFadeDelay (Address = 0F20)
0084| 0F4A              .WORD $0F4A ; Call # $26/ 38 - PowerDown (Address = 0F60)
0086| 0F7E              .WORD $0F7E ; Call # $28/ 40 - PowerCycle (Address = 0FE4)
0088| 0FE2              .WORD $0FE2 ; Call # $2A/ 42 - Volume (Address = 1048)
008A| 0FF0              .WORD $0FF0 ; Call # $2C/ 44 - SetVolume (Address = 1056)
008C| 1012              .WORD $1012 ; Call # $2E/ 46 - Noise (Address = 1078)
008E| 1078              .WORD $1078 ; Call # $30/ 48 - Silence (Address = 10DE)
0090| 1088              .WORD $1088 ; Call # $32/ 50 - Beep (Address = 10EE)
0092| 1A0C              .WORD $1A0C ; Call # $34/ 52 - KeyIsDown (Address = 1A72)
0094| 1A36              .WORD $1A36 ; Call # $36/ 54 - KeyMap (Address = 1A9C)
0096| 18A2              .WORD $18A2 ; Call # $38/ 56 - Keyboard (Address = 1908)
0098| 1B1C              .WORD $1B1C ; Call # $3A/ 58 - KeybdEvent (Address = 1B82)
009A| 1A50              .WORD $1A50 ; Call # $3C/ 60 - KeybdPeek (Address = 1AB6)
009C| 1C2A              .WORD $1C2A ; Call # $3E/ 62 - RepeatRate (Address = 1C90)
009E| 1C38              .WORD $1C38 ; Call # $40/ 64 - SetRepeatRate (Address = 1C9E)
00A0| 1CCC              .WORD $1CCC ; Call # $42/ 66 - KeyPushed (Address = 1D32)
00A2| 20BC              .WORD $20BC ; Call # $44/ 68 - Timer (Address = 2122)
00A4| 2120              .WORD $2120 ; Call # $46/ 70 - AlarmAssign (Address = 2186)
00A6| 214C              .WORD $214C ; Call # $48/ 72 - AlarmReturn (Address = 21B2)
00A8| 2166              .WORD $2166 ; Call # $4A/ 74 - AlarmAbsolute (Address = 21CC)

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00AA| 21B4 .WORD $21B4 ; Call # $4C/ 76 - AlarmRelative (Address = 221A)
00AC| 21CE .WORD $21CE ; Call # $4E/ 78 - AlarmOff (Address = 223A)
00AE| 21EA .WORD $21EA ; Call # $50/ 80 - DateTime (Address = 2250)
00B0| 21F4 .WORD $21F4 ; Call # $52/ 82 - SetDateTime (Address = 225A)
00B2| 2206 .WORD $2206 ; Call # $54/ 84 - DateToTime (Address = 226C)
00B4| 224A .WORD $224A ; Call # $56/ 86 - Sys_56_Call (Address = 22B0)
00B6| 22B2 .WORD $22B2 ; Call # $58/ 88 - TimeStamp (Address = 2318)
00B8| 22C0 .WORD $22C0 ; Call # $5A/ 90 - SetTimeStamp (Address = 2326)
00BA| 22D2 .WORD $22D2 ; Call # $5C/ 92 - TimeToDate (Address = 2338)
00BC| 232A .WORD $232A ; Call # $5E/ 94 - Sys_5E_Call (Address = 2390)
00BE| 233C .WORD $233C ; Call # $60/ 96 - Sys_60_Call (Address = 23A2)
00C0| 2390 .WORD $2390 ; Call # $62/ 98 - Sys_62_Call (Address = 23F6)
00C2| 23E4 .WORD $23E4 ; Call # $64/100 - Sys_64_Call (Address = 244A)
00C4| 2472 .WORD $2472 ; Call # $66/102 - Sys_66_Call (Address = 24D8)
00C6| 0338 .WORD $0338 ; Call # $68/104 - DiskDriver (Address = 039E)
00C8| 0330 .WORD $0330 ; Call # $6A/106 - TwiggysDriver (Address = 0396)
00CA| 0340 .WORD $0340 ; Call # $6C/108 - DiskSync (Address = 03A6)
00CC| 0C1E .WORD $0C1E ; Call # $6E/110 - CursorObscure (Address = 0C84)
00CE| 0C3C .WORD $0C3C ; Call # $70/112 - CursorInit (Address = 0CA2)
00D0| 1D08 .WORD $1D08 ; Call # $72/114 - NMIKey (Address = 1DE6)
00D2| 1D12 .WORD $1D12 ; Call # $74/116 - SetNMIKey (Address = 1D78)
00D4| 1D66 .WORD $1D66 ; Call # $76/118 - Sys_76_Call (Address = 1DCC)
00D6| 1D6E .WORD $1D6E ; Call # $78/120 - Sys_78_Call (Address = 1DD4)
00D8| 1D76 .WORD $1D76 ; Call # $7A/122 - Sys_7A_Call (Address = 1DDC)
00DA| 1D7E .WORD $1D7E ; Call # $7C/124 - Sys_7C_Call (Address = 1DE4)
00DC| 1D86 .WORD $1D86 ; Call # $7E/126 - Sys_7E_Call (Address = 1DEC)
00DE| 1D8E .WORD $1D8E ; Call # $80/128 - Sys_80_Call (Address = 1DF4)
00E0| 0E9A .WORD $0E9A ; Call # $82/130 - DimContrast (Address = 0F00)
00E2| 0EA2 .WORD $0EA2 ; Call # $84/132 - SetDimContrast (Address = 0F08)
00E4| 0C6E .WORD $0C6E ; Call # $86/134 - BusyImage (Address = 0CD4)
00E6| 0CCA .WORD $0CCA ; Call # $88/136 - BusyDelay (Address = 0D30)
00E8| 0D3C .WORD $0D3C ; Call # $8A/138 - ScreenSize (Address = 0DA2)
00EA| 0348 .WORD $0348 ; Call # $8C/140 - NMISync (Address = 03AE)
00EC| 0D52 .WORD $0D52 ; Call # $8E/142 - ScreenKeybd (Address = 0DB8)
00EE| 0D5A .WORD $0D5A ; Call # $90/144 - SetScreenKeybd (Address = 0DC0)
00F0| 1A70 .WORD $1A70 ; Call # $92/146 - AltKeyPeek (Address = 1AD6)
00F2| 1B3A .WORD $1B3A ; Call # $94/148 - AltKeyEvent (Address = 1BA0)
00F4| 18AC .WORD $18AC ; Call # $96/150 - Legends (Address = 1912)
00F6| 18B6 .WORD $18B6 ; Call # $98/152 - SetLegends (Address = 191C)
00F8| 2020 .WORD $2020 ; Call # $9A/154 - MicroTimer (Address = 2086)
00FA| 0C54 .WORD $0C54 ; Call # $9C/156 - CursorReInit (Address = 0CBA)
00FC| 0380 .WORD $0380 ; Call # $9E/158 - Poll (Address = 03E6)
00FE| 1D54 .WORD $1D54 ; Call # $A0/160 - ToggleKey (Address = 1DBA)
0100| 1D5E .WORD $1D5E ; Call # $A2/162 - SetToggleKey (Address = 1DC4)
0102| 1F2E .WORD $1F2E ; Call # $A4/164 - Sys_A4_Call (Address = 1F94)
0104| 00B4 .WORD $00B4 ; Call # $A6/166 - Sys_A6_Call (Address = 011A)
0106| 0880 .WORD $0880 ; Call # $A8/168 - MouseOdometer (Address = 08E6)
0108| 0350 .WORD $0350 ; Call # $AA/170 - COPSSync (Address = 03B6)
010A| 0888 .WORD $0888 ; Call # $AC/172 - Sys_AC_Call (Address = 08EE)
010C| 0890 .WORD $0890 ; Call # $AE/174 - Sys_AE_Call (Address = 08F6)
010E| 109C .WORD $109C ; Call # $B0/176 - Sys_B0_Call (Address = 1102)
0110| 1100 .WORD $1100 ; Call # $B2/178 - Sys_B2_Call (Address = 1166)
0112| ; |-----|
0112| ; | ROUTINE : iSys_A6_Call
0112| ; |-----|
0112| iSys_A6_Call: ; L0011A
0112|
0112| 4E75 RTS ; this is a VERY complicated system call !
0114|
0114| ; |-----|
0114| ; | ROUTINE : iDriverInit
0114| ; |-----|
0114|
0114| ; PROCEDURE DriverInit;
0114|
0114| iDriverInit: ; L0011C
0114|
0114| 48E7 C0C0 MOVEM.L D0/D1/A0/A1,-(A7) ; save some scratch registers
0118| 4280 CLR.L D0
011A| 207C 00CC 0000 MOVE.L #ioCC0000,A0
0120| 227C 00CC 0868 MOVE.L #ioCC0868,A1
0126| 20C0 L0012E MOVE.L D0,(A0)+
0128| B1C9 CMPA.L A1,A0
012A| 6DFA BLT.S L0012E
012C| 41FA FFE4 LEA iSys_A6_Call,A0
0130| 23C8 00CC 0010 MOVE.L A0,iocC0010
0136| 23C8 00CC 000C MOVE.L A0,iocC000C
013C| 33FC 0FFF 00CC 00E6 MOVE.W #$0FFF,iocC00E6
0144| 23FC FFFF FFFF 00CC MOVE.L $FFFFFFFF,iocC00E8
014E| 33FC 0008 00CC 00F8 MOVE.W #8,iocC00F8
0156| 13FC 0001 00CC 0212 MOVE.B #1,iocC0212
015E| 33FC 0001 00CC 0216 MOVE.W #$0001,iocC0216
0166| 33FC 0080 00CC 02AA MOVE.W #$0080,iocC02AA
016E| 33FC 00B0 00CC 02AC MOVE.W #$00B0,iocC02AC

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0176| 41FA 0BEE      LEA      L00D6E,A0
017A| 4EBA 2002      JSR      iAlarmAssign
017E| 33C0 00CC 020C MOVE.W   D0,ioCC020C
0184| 41FA 0F50      LEA      iSilence,A0
0188| 4EBA 1FF4      JSR      iAlarmAssign
018C| 33C0 00CC 02BE MOVE.W   D0,ioCC02BE
0192| 41FA 0CA2      LEA      L00E3E,A0
0196| 4EBA 1FE6      JSR      iAlarmAssign
019A| 33C0 00CC 02B2 MOVE.W   D0,ioCC02B2
01A0| 41FA 0754      LEA      L008FE,A0
01A4| 23C8 00CC 00EC MOVE.L   A0,ioCC00EC
01AA| 41FA 1C48      LEA      L01DFC,A0
01AE| 23C8 00CC 02C2 MOVE.L   A0,ioCC02C2
01B4| 41FA 1E7E      LEA      L0203C,A0
01B8| 23C8 00CC 02C6 MOVE.L   A0,ioCC02C6
01BE| 41FA 1EAA      LEA      L02072,A0
01C2| 23C8 00CC 02CA MOVE.L   A0,ioCC02CA
01C8| 13FC 0003 00CC 02B4 MOVE.B   #3,ioCC02B4
01D0| 23FC 0004 93E0 00CC MOVE.L   #$000493E0,ioCC02B6
01DA| 33FC 0080 00CC 02BC MOVE.W   #$0080,ioCC02BC
01E2| 41FA 0D74      LEA      iPowerDown,A0
01E6| 4EBA 1F96      JSR      iAlarmAssign
01EA| 33C0 00CC 02BA MOVE.W   D0,ioCC02BA
01F0| 2239 00CC 02B6 MOVE.L   ioCC02B6,D1
01F6| 4EBA 201A      JSR      iAlarmRelative
01FA| 23FC 0000 0190 00CC MOVE.L   #$00000190,ioCC0610
0204| 23FC 0000 0064 00CC MOVE.L   #$00000064,ioCC0614
020E| 4200          CLR.B   D0
0210| 4EBA 0BA6      JSR      iSetScreenKeybd
0214| 4200          CLR.B   D0
0216| 207C 00FC D901 MOVE.L   #ioVIA2Base,A0
021C| 08A8 0005 0010 BCLR    #5,$0010(A0)
0222| 08E8 0003 0010 BSET    #3,$0010(A0)
0228| 08E8 0002 0010 BSET    #2,$0010(A0)
022E| 0890 0002      BCLR    #2,(A0)
0232| 0890 0003      BCLR    #3,(A0)
0236| 117C 00FF 0018 MOVE.B   #255,$18(A0)
023C| 117C 0001 0078 MOVE.B   #1,$78(A0)
0242| 0810 0005      BTST    #5,(A0)
0246| 6604          BNE.S   L00254
0248| 103C 0001      MOVE.B   #1,D0
024C| 4228 0018      CLR.B   $18(A0)
0250| 08D0 0003      BSET    #3,(A0)
0254| 08E8 0005 0010 BSET    #5,$0010(A0)
025A| 13C0 00CC 0008 MOVE.B   D0,ioCC0008
0260| 4239 00CC 0009 CLR.B   ioCC0009
0266| 13FC 00CA 00CC 000A MOVE.B   #SCA,ioCC000A
026E| 13FC 0027 00CC 000B MOVE.B   #$27,ioCC000B
0276| 0839 0007 00FC C031 BTST    #7,ioFCC031
027E| 6722          BEQ.S   L002AA
0280| 0839 0005 00FC C031 BTST    #5,ioFCC031
0288| 6618          BNE.S   L002AA
028A| 13FC 0001 00CC 0009 MOVE.B   #$01,ioCC0009
0292| 13FC 007B 00CC 000A MOVE.B   #$7B,ioCC000A
029A| 13FC 0063 00CC 000B MOVE.B   #$63,ioCC000B
02A2| 207C 00FC D901 L002AA MOVE.L   #ioVIA2Base,A0
02A8| 117C 0048 0058 MOVE.B   #$48,$58(A0)
02AE| 4A28 0050      TST.B   $50(A0)
02B2| 1179 00CC 000A 0020 MOVE.B   ioCC000A,$20(A0)
02BA| 1179 00CC 000B 0028 MOVE.B   ioCC000B,$28(A0)
02C2| 117C 00C0 0070 MOVE.B   #SC0,$70(A0)
02C8| 41FA 01D4      LEA      L004A6,A0
02CC| 21C8 0064      MOVE.L   A0,$64
02D0| 23C0 00FC E018 MOVE.L   D0,ioVideoVerReset
02D6| 207C 00FC DD81 MOVE.L   #ioVIA1Base,A0
02DC| 4228 0006      CLR.B   $06(A0)
02E0| 1028 0004      MOVE.B   $04(A0),D0
02E4| 0200 00A0      ANDI.B   #$A0,D0      ; $A0 = % 1010 0000
02E8| 0000 000E      ORI.B   #$0E,D0      ; $0E = % 0000 1110
02EC| 1140 0004      MOVE.B   D0,$0004(A0)
02F0| 117C 00C9 0018 MOVE.B   #SC9,$18(A0)
02F6| 117C 0001 0016 MOVE.B   #S01,$16(A0)
02FC| 117C 0082 001C MOVE.B   #S82,$1C(A0)
0302| 103C 007C      MOVE.B   #7C,D0
0306| 4EBA 0114      JSR      L00424
030A| 43FA 033C      LEA      L00650,A1
030E| 21C9 0068      MOVE.L   A1,$0068
0312| 41F8 02B0      LEA      $02B0,A0
0316| 4241          CLR.W   D1
0318| 1030 1000      L00320 MOVE.B   $00(A0,D1.W),D0
031C| 670C          BEQ.S   L00332
031E| 4EBA 034C      JSR      L00674
0322| 5241          ADDQ.W   #1,D1
0324| 0C41 0010      CMPI.W   #16,D1
0328| 6DEE          BLT.S   L00320
032A| 4279 00CC 0620 L00332 CLR.W   ioCC0620

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0330| 4279 00CC 0622          CLR.W      ioCC0622
0336| 4239 00CC 0015          CLR.B      ioCC0015
033C| 02B9 0000 00A0 00CC    ANDI.L      #$000000A0,ioCC05D2      ; $A0 = % 1010 0000
0346| 42B9 00CC 05D6          CLR.L      ioCC05D6
034C| 42B9 00CC 05DA          CLR.L      ioCC05DA
0352| 02B9 2000 0000 00CC    ANDI.L      #$20000000,ioCC05DE      ; $20000000 = % 0010 ... 0000
035C| 0279 0001 00CC 05E8    ANDI.W      #$0001,ioCC05E8      ; $0001 = % 0000 ... 0001
036A| 6614                    TST.B      ioCC02CE
036C| 303C 000F              BNE.S      L00388
0370| 48E7 FFFE              MOVE.W      #15,D0
0374| 2079 00CC 02C6          MOVEM.L     D0-D7/A0-A6,-(A7)
037A| 4E90                    MOVE.L      ioCC02C6,A0
037C| 4CDF 7FFF              JSR      (A0)
0380| 43FA FCD2              MOVEM.L     (A7)+,D0-D7/A0-A6
0384| 21C9 0094              LEA      LLD_Entry,A1      ; setup TRAP # 5 Vector address
0388| 4CDF 0303              MOVE.L      A1,ImTRAP5Vector      ; to point to routine LLD_Entry
038C| 4E75                    MOVEM.L     (A7)+,D0/D1/A0/A1
038E|                          RTS
038E|                          ; |-----|
038E|                          ; | ROUTINE : iTwiggyDriver |
038E|                          ; |-----|
038E|                          ;
038E|                          ; PROCEDURE TwiggyDriver(routine: LogicalAddress);
038E|
038E|                          iTwiggyDriver: ; L00396
038E|
038E| 23C8 00CC 000C          MOVE.L      A0,ioCC000C
0394| 4E75                    RTS
0396|
0396|                          ; |-----|
0396|                          ; | ROUTINE : iDiskDriver |
0396|                          ; |-----|
0396|                          ;
0396|                          ; PROCEDURE DiskDriver(routine: LogicalAddress);
0396|
0396|                          iDiskDriver: ; L0039E
0396|
0396| 23C8 00CC 0010          MOVE.L      A0,ioCC0010
039C| 4E75                    RTS
039E|
039E|                          ; |-----|
039E|                          ; | ROUTINE : iDiskSync |
039E|                          ; |-----|
039E|                          ;
039E|                          ; PROCEDURE DiskSync(busy: Boolean);
039E|
039E|                          iDiskSync: ; L003A6
039E|
039E| 13C0 00CC 0014          MOVE.B      D0,ioCC0014
03A4| 4E75                    RTS
03A6|
03A6|                          ; |-----|
03A6|                          ; | ROUTINE : iNMISync |
03A6|                          ; |-----|
03A6|                          ;
03A6|                          ; PROCEDURE NMISync;
03A6|
03A6|                          iNMISync: ; L003AE
03A6|
03A6| 52B9 00CC 0016          ADDQ.L      #1,ioCC0016
03AC| 4E75                    RTS
03AE|
03AE|                          ; |-----|
03AE|                          ; | ROUTINE : iCOPSSync |
03AE|                          ; |-----|
03AE|                          ;
03AE|                          ; PROCEDURE COPSSync;
03AE|
03AE|                          iCOPSSync: ; L003B6
03AE|
03AE| 4239 00CC 0015          CLR.B      ioCC0015
03B4| 02B9 0000 00A0 00CC    ANDI.L      #$000000A0,ioCC05D2      ; $A0 = % 1010 0000
03BE| 42B9 00CC 05D6          CLR.L      ioCC05D6
03C4| 42B9 00CC 05DA          CLR.L      ioCC05DA
03CA| 02B9 2000 0000 00CC    ANDI.L      #$20000000,ioCC05DE
03D4| 0279 0001 00CC 05E8    ANDI.W      #1,ioCC05E8
03DC| 4E75                    RTS
03DE|
03DE|                          ; |-----|
03DE|                          ; | ROUTINE : iPoll |
03DE|                          ; |-----|
03DE|                          ;
03DE|                          ; PROCEDURE Poll;
03DE|
03DE|                          iPoll: ; L003E6

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03DE|
03DE| 48E7 8080          MOVEM.L D0/A0,-(A7)
03E2| 40E7              MOVE SR,-(A7)
03E4| 007C 0700          ORI.W  #$0700,SR          ; $0700 = % 0000 0111 0000 0000
03E8| 0839 0002 00FC F801 BTST   #2,ioFCF801
03F0| 6604              BNE.S  L003FE
03F2| 4EBA 0112          JSR    L0050E
03F6| 1039 00FC D969      L003FE MOVE.B ioFCD969,D0
03FC| 0800 0006          BTST   #6,D0
0400| 6704              BEQ.S  L0040E
0402| 4EBA 0158          JSR    L00564
0406| 0839 0001 00FC DD9B L0040E BTST   #1,ioFCD969
040E| 6704              BEQ.S  L0041C
0410| 4EBA 0252          JSR    L0066C
0414| 46DF              L0041C MOVE  (A7)+,SR
0416| 4CDF 0101          MOVEM.L (A7)+,D0/A0
041A| 4E75              RTS
041C|
041C| 48E7 70C0          L00424 MOVEM.L D1-D3/A0/A1,-(A7)
0420| 343C 0006          MOVE.W  #$0006,D2
0424| 363C FFFF          MOVE.W  $FFFF,D3
0428| 207C 00FC DD81      MOVE.L  #ioVIA1Base,A0
042E| 43E8 0006          LEA     $0006(A0),A1
0432| 40E7              MOVE  SR,-(A7)
0434| 007C 0700          ORI.W  #$0700,SR
0438| 6006              BRA.S  L00448
043A|
043A| 46D7              L00442 MOVE  (A7),SR
043C| 46FC 2700          MOVE  #$2700,SR          ; $2700 = % 0010 0111 0000 0000
0440| 1140 001E          L00448 MOVE.B D0,$1E(A0)
0444| 0510              BTST   D2,(A0)
0446| 67F2              BEQ.S  L00442
0448| 0510              BTST   D2,(A0)
044A| 6740              BEQ.S  L00494
044C| 0510              BTST   D2,(A0)
044E| 673C              BEQ.S  L00494
0450| 0510              BTST   D2,(A0)
0452| 6738              BEQ.S  L00494
0454| 0510              BTST   D2,(A0)
0456| 6734              BEQ.S  L00494
0458| 0510              BTST   D2,(A0)
045A| 6730              BEQ.S  L00494
045C| 0510              BTST   D2,(A0)
045E| 672C              BEQ.S  L00494
0460| 0510              BTST   D2,(A0)
0462| 6728              BEQ.S  L00494
0464| 0510              BTST   D2,(A0)
0466| 6724              BEQ.S  L00494
0468| 0510              BTST   D2,(A0)
046A| 6720              BEQ.S  L00494
046C| 0510              BTST   D2,(A0)
046E| 671C              BEQ.S  L00494
0470| 0510              BTST   D2,(A0)
0472| 6718              BEQ.S  L00494
0474| 0510              BTST   D2,(A0)
0476| 6714              BEQ.S  L00494
0478| 0510              BTST   D2,(A0)
047A| 6710              BEQ.S  L00494
047C| 0510              BTST   D2,(A0)
047E| 670C              BEQ.S  L00494
0480| 0510              BTST   D2,(A0)
0482| 6708              BEQ.S  L00494
0484| 0510              BTST   D2,(A0)
0486| 6704              BEQ.S  L00494
0488| 0510              BTST   D2,(A0)
048A| 66AE              BNE.S  L00442
048C| 1283              L00494 MOVE.B D3,(A1)
048E| 720A              MOVEQ  #$0A,D1
0490| 5341              L00498 SUBQ.W  #$1,D1
0492| 6EFC              BGT.S  L00498
0494| 4211              CLR.B  (A1)
0496| 46DF              MOVE  (A7)+,SR
0498| 4CDF 030E          MOVEM.L (A7)+,D1-D3/A0/A1
049C| 4E75              RTS
049E|
049E| 48E7 8080          L004A6 MOVEM.L D0/A0,-(A7)
04A2| 0839 0002 00FC F801 BTST   #2,ioFCF801
04AA| 6604              BNE.S  L004B8
04AC| 4EBA 0058          JSR    L0050E
04B0| 1039 00FC D969      L004B8 MOVE.B ioFCD969,D0
04B6| 0800 0006          BTST   #6,D0
04BA| 6706              BEQ.S  L004CA
04BC| 4EBA 00C4          JSR    L0058A
04C0| 60EE              BRA.S  L004B8
04C2|
04C2| C039 00FC D971      L004CA AND.B  ioFCD971,D0

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04C8| 0200 0022          ANDI.B    #$22,D0
04CC| 670A              BEQ.S      L004E0
04CE| 2079 00CC 0010    MOVE.L    ioCC0010,A0
04D4| 4E90              JSR        (A0)
04D6| 60D8              BRA.S      L004B8
04D8|
04D8| 0839 0004 00FC DD81 L004E0 BTST      #4,ioVIA1Base
04E0| 670A              BEQ.S      L004F4
04E2| 2079 00CC 000C    MOVE.L    ioCC000C,A0
04E8| 4E90              JSR        (A0)
04EA| 60C4              BRA.S      L004B8
04EC|
04EC| 0839 0002 00FC D971 L004F4 BTST      #2,ioFCD971
04F4| 670A              BEQ.S      L00508
04F6| 514F              SUBQ.W    #$8,A7
04F8| 4EBA 00C6          JSR        L005C8
04FC| 504F              ADDQ.W    #$8,A7
04FE| 60B0              BRA.S      L004B8
0500|
0500| 4CDF 0101          L00508 MOVEM.L  (A7)+,D0/A0
0504| 4E73              RTE
0506|
0506| 2F00              L0050E MOVE.L    D0,-(A7)
0508| 52B9 00CC 02A4      ADDQ.L    #$1,ioCC02A4
050E| 4A39 00CC 0213      TST.B     ioCC0213
0514| 6632              BNE.S     L00550
0516| 4A39 00CC 0212      TST.B     ioCC0212
051C| 672A              BEQ.S     L00550
051E| 2039 00CC 00F0      MOVE.L    ioCC00F0,D0
0524| B0B9 00CC 020E      CMP.L     ioCC020E,D0
052A| 671C              BEQ.S     L00550
052C| 4A39 00CC 0218      TST.B     ioCC0218
0532| 6604              BNE.S     L00540
0534| 4EBA 0564          JSR        iCursorHide
0538| 23C0 00CC 020E      L00540 MOVE.L    D0,ioCC020E
053E| 4EBA 0600          JSR        iCursorDisplay
0542| 4239 00CC 0218      CLR.B     ioCC0218
0548| 201F              L00550 MOVE.L    (A7)+,D0
054A| 23C0 00FC E018      L00552 MOVE.L    D0,ioVideoVerReset
0550| 0839 0002 00FC F801 BTST      #2,ioFCF801
0558| 67F0              BEQ.S     L00552
055A| 4E75              RTS
055C|
055C| 4A39 00FC D921      L00564 TST.B     ioFCD921
0562| 13F9 00CC 000B 00FC MOVE.B    ioCC000B,ioFCD939
056C| 06B9 0000 4E20 00CC ADDI.L    #$00004E20,ioCC001A
0576| 06B9 0000 0014 00CC ADDI.L    #$00000014,ioCC001E
0580| 4E75              RTS
0582|
0582| 2F00              L0058A MOVE.L    D0,-(A7)
0584| 4A39 00FC D921      TST.B     ioFCD921
058A| 13F9 00CC 000B 00FC MOVE.B    ioCC000B,ioFCD939
0594| 06B9 0000 4E20 00CC ADDI.L    #$00004E20,ioCC001A
059E| 06B9 0000 0014 00CC ADDI.L    #$00000014,ioCC001E
05A8| 2039 00CC 001E      MOVE.L    ioCC001E,D0
05AE| 90B9 00CC 0022      SUB.L     ioCC0022,D0
05B4| 6B00 0006          BMI      L005C4
05B8| 4EBA 0006          JSR        L005C8
05BC| 201F              L005C4 MOVE.L    (A7)+,D0
05BE| 4E75              RTS
05C0|
05C0| 48E7 F840          L005C8 MOVEM.L  D0-D4/A1,-(A7)
05C4| 13FC 0004 00FC D971 MOVE.B    #$04,ioFCD971
05CC| 41F9 00CC 0026      LEA       ioCC0026,A0
05D2| 43F9 00CC 003C      LEA       ioCC003C,A1
05D8| 303C 0014          MOVE.W    #$0014,D0
05DC| 2439 00CC 001E      MOVE.L    ioCC001E,D2
05E2| 2602              MOVE.L    D2,D3
05E4| 0683 7FFF FFFF      ADDI.L    #$7FFFFFFF,D3
05EA| 23C3 00CC 0022      MOVE.L    D3,ioCC0022
05F0| 0830 0001 0000      L005F8 BTST      #1,$00(A0,D0.W)
05F6| 6746              BEQ.S     L00646
05F8| 40E7              MOVE      SR,-(A7)
05FA| 007C 0700          ORI.W     #$0700,SR
05FE| 3200              MOVE.W    D0,D1
0600| E541              ASL.W     #$2,D1
0602| 2631 1000          MOVE.L    $00(A1,D1.W),D3
0606| 9682              SUB.L     D2,D3
0608| 621E              BHI.S     L00630
060A| 08B0 0001 0000      BCLR      #1,$00(A0,D0.W)
0610| 672A              BEQ.S     L00644
0612| 48E7 FFFE          MOVEM.L   D0-D7/A0-A6,-(A7)
0616| 41F9 00CC 0090      LEA       ioCC0090,A0
061C| 2070 1000          MOVE.L    $00(A0,D1.W),A0
0620| 4E90              JSR        (A0)
0622| 4CDF 7FFF          MOVEM.L   (A7)+,D0-D7/A0-A6

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0626| 6014                      BRA.S    L00644
0628|
0628| 2839 00CC 0022          L00630 MOVE.L    ioCC0022,D4
062E| 9882                      SUB.L    D2,D4
0630| B684                      CMP.L    D4,D3
0632| 6C08                      BGE.S    L00644
0634| 23F1 1000 00CC 0022      L00644 MOVE.L    $00(A1,D1.W),ioCC0022
063C| 46DF                      L00644 MOVE     (A7)+,SR
063E| 51C8 FF80              L00646 DBF      D0,L005F8
0642| 4CDF 021F              MOVEM.L (A7)+,D0-D4/A1
0646| 4E75                      RTS
0648|
0648| 2F00                      L00650 MOVE.L    D0,-(A7)
064A| 40E7                      MOVE     SR,-(A7)
064C| 46FC 2500              MOVE     #$2500,SR
0650| 0839 0001 00FC DD9B      BTST     #1,ioFCDD9B
0658| 6704                      BEQ.S    L00666
065A| 4EBA 0008              JSR      L0066C
065E| 46DF                      L00666 MOVE     (A7)+,SR
0660| 201F                      MOVE.L   (A7)+,D0
0662| 4E73                      RTE
0664|
0664| 4240                      L0066C CLR.W     D0
0666| 1039 00FC DD83          MOVE.B   ioFCDD83,D0
066C| 4A39 00CC 0015          L00674 TST.B     ioCC0015
0672| 6728                      BEQ.S    L006A4
0674| 0C39 0001 00CC 0015      CMPI.B   #$01,ioCC0015
067C| 6700 009C              BEQ      L00722
0680| 0C39 0002 00CC 0015      CMPI.B   #$02,ioCC0015
0688| 6700 00A0              BEQ      L00732
068C| 0C39 0003 00CC 0015      CMPI.B   #$03,ioCC0015
0694| 6700 00D0              BEQ      L0076E
0698| 6000 0114              BRA      L007B6
069C|
069C| 4A00                      L006A4 TST.B     D0
069E| 6766                      BEQ.S    L0070E
06A0| 0C00 0080              CMPI.B   #$80,D0
06A4| 676A                      BEQ.S    L00718
06A6| 08F9 0000 00CC 02B4      BSET     #0,ioCC02B4
06AE| 6604                      BNE.S    L006BC
06B0| 4EBA 0880              JSR      L00F3A
06B4| 48E7 FF80              L006BC MOVEM.L   D0-D7/A0-A6,-(A7)
06B8| 3200                      MOVE.W   D0,D1
06BA| 0240 007F              ANDI.W   #$007F,D0
06BE| 0241 0080              ANDI.W   #$0080,D1
06C2| 1439 00CC 02CE          MOVE.B   ioCC02CE,D2
06C8| 0202 003F              ANDI.B   #$3F,D2
06CC| 0C02 000F              CMPI.B   #$0F,D2
06D0| 6614                      BNE.S    L006EE
06D2| 0C40 0068              CMPI.W   #$0068,D0
06D6| 6604                      BNE.S    L006E4
06D8| 303C 004E              MOVE.W   #$004E,D0
06DC| 0C40 007C              L006E4 CMPI.W   #$007C,D0
06E0| 6604                      BNE.S    L006EE
06E2| 303C 0068              MOVE.W   #$0068,D0
06E6| 4A39 00CC 02A8          L006EE TST.B     ioScreenKeybd
06EC| 670A                      BEQ.S    L00700
06EE| 4EBA 1704              JSR      L01DFC
06F2| 4CDF 7FFF              MOVEM.L   (A7)+,D0-D7/A0-A6
06F6| 4E75                      RTS
06F8|
06F8| 2079 00CC 02C2          L00700 MOVE.L    ioCC02C2,A0
06FE| 4E90                      JSR      (A0)
0700| 4CDF 7FFF              MOVEM.L   (A7)+,D0-D7/A0-A6
0704| 4E75                      RTS
0706|
0706| 13FC 0001 00CC 0015      L0070E MOVE.B   #$01,ioCC0015
070E| 4E75                      RTS
0710|
0710| 13FC 0004 00CC 0015      L00718 MOVE.B   #$04,ioCC0015
0718| 4E75                      RTS
071A|
071A| 13C0 00CC 00F4          L00722 MOVE.B   D0,ioCC00F4
0720| 13FC 0002 00CC 0015      MOVE.B   #$02,ioCC0015
0728| 4E75                      RTS
072A|
072A| 08F9 0000 00CC 02B4      L00732 BSET     #0,ioCC02B4
0732| 6604                      BNE.S    L00740
0734| 4EBA 07FC              JSR      L00F3A
0738| 13C0 00CC 00F5          L00740 MOVE.B   D0,ioCC00F5
073E| 4239 00CC 0015          CLR.B    ioCC0015
0744| 48E7 FF80              MOVEM.L   D0-D7/A0-A6,-(A7)
0748| 4240                      CLR.W    D0
074A| 1039 00CC 00F4          MOVE.B   ioCC00F4,D0
0750| 4241                      CLR.W    D1
0752| 1239 00CC 00F5          MOVE.B   ioCC00F5,D1

```

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```

; |-----|
; | ROUTINE : iMouseLocation |
; |-----|

; PROCEDURE MouseLocation(VAR x: Pixels; VAR y: Pixels);

iMouseLocation:  L0087E

```

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```

0876| 2039 00CC 00F0          MOVE.L    ioCC00F0,D0
087C| 3200                    MOVE.W    D0,D1 ; D1 := mouse Y
087E| 4840                    SWAP      D0   ; D0 := mouse X
0880| 4E75                    RTS
0882|
0882| ; |=====|
0882| ; | ROUTINE : iMouseUpdates
0882| ; |=====|
0882|
0882| ; PROCEDURE MouseUpdates(delay: MilliSeconds);
0882|
0882| iMouseUpdates: ; L0088A
0882|
0882| 48E7 C000                MOVEM.L   D0/D1,-(A7)
0886| 2239 00CC 0016          MOVE.L    ioCC0016,D1
088C| 5440                    ADDQ.W    # $2,D0
088E| E440                    ASR.W     # $2,D0
0890| 6A02                    BPL.S     L0089C
0892| 4240                    CLR.W     D0
0894| 0C40 0007              L0089C    CMPI.W   #$0007,D0
0898| 6F04                    BLE.S     L008A6
089A| 303C 0007              MOVE.W    #$0007,D0
089E| 0040 0078              L008A6    ORI.W    # $0078,D0
08A2| 4EBA FB78              JSR       L00424
08A6| B2B9 00CC 0016          CMP.L     ioCC0016,D1
08AC| 4CDF 0003              MOVEM.L   (A7)+,D0/D1
08B0| 66D0                    BNE.S     iMouseUpdates
08B2| 52B9 00CC 0016          ADDQ.L    # $1,ioCC0016
08B8| 4E75                    RTS
08BA|
08BA| ; |=====|
08BA| ; | ROUTINE : iMouseScaling
08BA| ; |=====|
08BA|
08BA| ; PROCEDURE MouseScaling(scale: Boolean);
08BA|
08BA| iMouseScaling: ; L008C2
08BA|
08BA| 13C0 00CC 00F6          MOVE.B     D0,ioCC00F6
08C0| 4E75                    RTS
08C2|
08C2| ; |=====|
08C2| ; | ROUTINE : iMouseThresh
08C2| ; |=====|
08C2|
08C2| ; PROCEDURE MouseThresh(threshold: Pixels);
08C2|
08C2| iMouseThresh: ; L008CA
08C2|
08C2| 2F00                    MOVE.L     D0,-(A7)
08C4| 4A40                    TST.W     D0
08C6| 6C02                    BGE.S     L008D2
08C8| 4240                    CLR.W     D0
08CA| 0C40 0100              L008D2    CMPI.W   #$0100,D0
08CE| 6F04                    BLE.S     L008DC
08D0| 303C 0100              MOVE.W    #$0100,D0
08D4| 33C0 00CC 00F8          L008DC    MOVE.W    D0,ioCC00F8
08DA| 201F                  MOVE.L     (A7)+,D0
08DC| 4E75                    RTS
08DE|
08DE| ; |=====|
08DE| ; | ROUTINE : iMouseOdometer
08DE| ; |=====|
08DE|
08DE| ; FUNCTION MouseOdometer: ManyPixels;
08DE|
08DE| iMouseOdometer: ; L008E6
08DE|
08DE| 2039 00CC 00FA          MOVE.L     ioMouseOdometer,D0
08E4| 4E75                    RTS
08E6|
08E6| ; |=====|
08E6| ; | ROUTINE : iSys_AC_Call
08E6| ; |=====|
08E6|
08E6| iSys_AC_Call: ; L008EE
08E6|
08E6| 2079 00CC 00EC          MOVE.L     ioCC00EC,A0
08EC| 4E75                    RTS
08EE|
08EE| ; |=====|
08EE| ; | ROUTINE : iSys_AE_Call
08EE| ; |=====|
08EE|
08EE| iSys_AE_Call: ; L008F6
08EE|

```

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```

;
; ROUTINE : iCursorImage
;
;
; PROCEDURE CursorImage(hotX: Pixels; hotY: Pixels; height: CursorHeight;
; data: CursorPtr; mask: CursorPtr);
;
iCursorImage: ; L009AE

```

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```

09C0| 4241          CLR.W      D1
09C2| B243          L009CA    CMP.W      D3,D1
09C4| 6F02          BLE.S      L009D0
09C6| 3203          MOVE.W     D3,D1
09C8| 4A42          L009D0    TST.W      D2
09CA| 6C02          BGE.S      L009D6
09CC| 4241          CLR.W      D1
09CE| 0C42 0020    L009D6    CMPI.W     #$0020,D2
09D2| 6F04          BLE.S      L009E0
09D4| 343C 0020    MOVE.W     #$0020,D2
09D8| 33C0 00CC 0180 L009E0    MOVE.W     D0,iocC0180
09DE| 33C1 00CC 0182 MOVE.W     D1,iocC0182
09E4| 33C2 00CC 0184 MOVE.W     D2,iocC0184
09EA| 45F9 00CC 0100 LEA       iocC0100,A2
09F0| 47F9 00CC 0140 LEA       iocC0140,A3
09F6| 6004          BRA.S      L00A04
09F8|
09F8| 34D8          L00A00    MOVE.W     (A0)+,(A2)+
09FA| 36D9          MOVE.W     (A1)+,(A3)+
09FC| 51CA FFFA    L00A04    DBF       D2,L00A00
0A00| 4CDF 0F0F    MOVEM.L   (A7)+,D0-D3/A0-A3
0A04| 4EBA 013A    JSR       iCursorDisplay
0A08| 4E75          RTS
0A0A|
0A0A|
0A0A| ; | ROUTINE : iCursorLocation
0A0A| ; |
0A0A|
0A0A| ; PROCEDURE CursorLocation(x: Pixels; y: Pixels);
0A0A|
0A0A| iCursorLocation: ; L00A12
0A0A|
0A0A| 08F9 0000 00CC 02B4 BSET      #0,iocC02B4
0A12| 6604          BNE.S      L00A20
0A14| 4EBA 051C    JSR       L00F3A
0A18| 4A39 00CC 0212 L00A20    TST.B      iocC0212
0A1E| 665A          BNE.S      L00A82
0A20| 48E7 C000    MOVEM.L   D0/D1,-(A7)
0A24| 4A40          TST.W      D0
0A26| 6C02          BGE.S      L00A32
0A28| 4240          CLR.W      D0
0A2A| 0C40 02CF    L00A32    CMPI.W     #$02CF,D0
0A2E| 6F04          BLE.S      L00A3C
0A30| 303C 02CF    L00A3C    MOVE.W     #$02CF,D0
0A34| 4A41          TST.W      D1
0A36| 6C02          BGE.S      L00A42
0A38| 4241          CLR.W      D1
0A3A| 0C41 016B    L00A42    CMPI.W     #$016B,D1
0A3E| 6F04          BLE.S      L00A4C
0A40| 323C 016B    MOVE.W     #$016B,D1
0A44| B079 00CC 020E L00A4C    CMP.W      iocC020E,D0
0A4A| 6608          BNE.S      L00A5C
0A4C| B279 00CC 0210 CMP.W      iocC0210,D1
0A52| 6722          BEQ.S      L00A7E
0A54| 4A39 00CC 0218 L00A5C    TST.B      iocC0218
0A5A| 6604          BNE.S      L00A68
0A5C| 4EBA 003C    JSR       iCursorHide
0A60| 33C0 00CC 020E L00A68    MOVE.W     D0,iocC020E
0A66| 33C1 00CC 0210 MOVE.W     D1,iocC0210
0A6C| 4EBA 00D2    JSR       iCursorDisplay
0A70| 4239 00CC 0218 CLR.B      iocC0218
0A76| 4CDF 0003    L00A7E    MOVEM.L   (A7)+,D0/D1
0A7A| 4E75          L00A82    RTS
0A7C|
0A7C| ; | ROUTINE : iCursorTracking
0A7C| ; |
0A7C|
0A7C| ; PROCEDURE CursorTracking(track: Boolean);
0A7C|
0A7C| iCursorTracking: ; L00A84
0A7C|
0A7C| 4A00          TST.B      D0
0A7E| 6712          BEQ.S      L00A9A
0A80| 4A39 00CC 0212 TST.B      iocC0212
0A86| 660A          BNE.S      L00A9A
0A88| 23F9 00CC 020E 00CC L00A9A    MOVE.L     iocC020E,iocC00F0
0A92| 13C0 00CC 0212 L00A9A    MOVE.B     D0,iocC0212
0A98| 4E75          RTS
0A9A|
0A9A| ; | ROUTINE : iCursorHide
0A9A| ; |
0A9A|
0A9A| ; PROCEDURE CursorHide;
0A9A|

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0A9A|          iCursorHide: ; L00AA2
0A9A|
0A9A| 13FC 0001 00CC 0213      MOVE.B   #$01,i0CC0213
0AA2| 4A39 00CC 0214          TST.B     i0CC0214
0AA8| 672E                    BEQ.S     L00AE0
0AAA| 48E7 C0C0              MOVEM.L  D0/D1/A0/A1,-(A7)
0AAE| 41F9 00CC 021A          LEA       i0CC021A,A0
0AB4| 2279 00CC 02A0          MOVE.L   i0CC02A0,A1
0ABA| 3039 00CC 029E          MOVE.W   i0CC029E,D0
0AC0| 323C 005A              MOVE.W   #005A,D1
0AC4| 6004                    BRA.S     L00AD2
0AC6|
0AC6| 2298                    L00ACE    MOVE.L   (A0)+,(A1)
0AC8| D2C1                    ADDA.W   D1,A1
0ACA| 51C8 FFFA              L00AD2    DBF     D0,L00ACE
0ACE| 4239 00CC 0214          CLR.B     i0CC0214
0AD4| 4CDF 0303              MOVEM.L  (A7)+,D0/D1/A0/A1
0AD8| 5379 00CC 0216          L00AE0    SUBQ.W   #0001,i0CC0216
0ADE| 4239 00CC 0213          CLR.B     i0CC0213
0AE4| 4E75                    RTS
0AE6|
0AE6| ; |||
0AE6| ; | ROUTINE : iCursorShield
0AE6| ; |||
0AE6|
0AE6| ; PROCEDURE CursorShield(left: Pixels; top: Pixels; right: Pixels;
0AE6| ;                          bottom: Pixels);
0AE6|
0AE6| iCursorShield: ; L00AEE
0AE6|
0AE6| 13FC 0001 00CC 0213      MOVE.B   #$01,i0CC0213
0AEE| 5379 00CC 0216          SUBQ.W   #1,i0CC0216
0AF4| 4A39 00CC 0214          TST.B     i0CC0214
0AF8| 673C                    BEQ.S     L00B40
0AFC| 48E7 C000              MOVEM.L  D0/D1,-(A7)
0B00| B679 00CC 029C          CMP.W     i0CC029C,D3
0B06| 6D2C                    BLT.S     L00B3C
0B08| 9279 00CC 029E          SUB.W     i0CC029E,D1
0B0E| B279 00CC 029C          CMP.W     i0CC029C,D1
0B14| 6C1E                    BGE.S     L00B3C
0B16| B479 00CC 029A          CMP.W     i0CC029A,D2
0B1C| 6D16                    BLT.S     L00B3C
0B1E| 0440 0020              SUBI.W   #0020,D0
0B22| B079 00CC 029A          CMP.W     i0CC029A,D0
0B28| 6C0A                    BGE.S     L00B3C
0B2A| 5279 00CC 0216          ADDQ.W   #1,i0CC0216
0B30| 4EBA FF68              JSR      iCursorHide
0B34| 4CDF 0003              L00B3C    MOVEM.L  (A7)+,D0/D1
0B38| 4239 00CC 0213          L00B40    CLR.B     i0CC0213
0B3E| 4E75                    RTS
0B40|
0B40| ; |||
0B40| ; | ROUTINE : iCursorDisplay
0B40| ; |||
0B40|
0B40| ; PROCEDURE CursorDisplay;
0B40|
0B40| iCursorDisplay: ; L00B48
0B40|
0B40| 13FC 0001 00CC 0213      MOVE.B   #$01,i0CC0213
0B48| 5279 00CC 0216          ADDQ.W   #1,i0CC0216
0B4E| 6F00 0124              BLE      L00C7C
0B52| 33FC 0001 00CC 0216      MOVE.W   #0001,i0CC0216
0B5A| 4A39 00CC 0214          TST.B     i0CC0214
0B60| 6600 0112              BNE      L00C7C
0B64| 48E7 FCF0              MOVEM.L  D0-D5/A0-A3,-(A7)
0B68| 41F9 00CC 021A          LEA       i0CC021A,A0
0B6E| 2278 0160              MOVE.L   lmScreenAddr,A1
0B72| 4A39 00CC 00FE          TST.B     i0CC00FE
0B78| 6620                    BNE.S     L00BA2
0B7A| 45F9 00CC 0100          LEA       i0CC0100,A2
0B80| 47F9 00CC 0140          LEA       i0CC0140,A3
0B86| 3039 00CC 0180          MOVE.W   i0CC0180,D0
0B8C| 3239 00CC 0182          MOVE.W   i0CC0182,D1
0B92| 3839 00CC 0184          MOVE.W   i0CC0184,D4
0B98| 601E                    BRA.S     L00BC0
0B9A|
0B9A| 45F9 00CC 0186          L00BA2    LEA       i0CC0186,A2
0BA0| 47F9 00CC 01C6          LEA       i0CC01C6,A3
0BA6| 3039 00CC 0206          MOVE.W   i0CC0206,D0
0BAC| 3239 00CC 0208          MOVE.W   i0CC0208,D1
0BB2| 3839 00CC 020A          MOVE.W   i0CC020A,D4
0BB8| 9079 00CC 020E          L00BC0    SUB.W     i0CC020E,D0
0BBE| 4440                    NEG.W     D0
0BC0| 3400                    MOVE.W   D0,D2
0BC2| 0242 000F              ANDI.W   #000F,D2

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LOBEC

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```

0C9A|                                     iCursorInit: ; L00CA2
0C9A|
0C9A| 2F00                                     MOVE.L   D0,-(A7)
0C9C| 3039 00CC 020C                       MOVE.W   ioCC020C,D0
0CA2| 4EBA 1588                             JSR      iAlarmOff
0CA6| 4239 00CC 00FE                       CLR.B    ioCC00FE
0CAC| 4EBA FDEC                             JSR      iCursorHide
0CB0| 201F                                     MOVE.L   (A7)+,D0
0CB2|
0CB2|                                     ; |=====|
0CB2|                                     ; | ROUTINE : iCursorReInit
0CB2|                                     ; |=====|
0CB2|
0CB2|                                     ; PROCEDURE CursorReInit;
0CB2|
0CB2|                                     iCursorReInit: ; L00CBA
0CB2|
0CB2| 13FC 0001 00CC 0213                   MOVE.B   #$01,ioCC0213
0CBA| 4239 00CC 0218                       CLR.B    ioCC0218
0CC0| 4279 00CC 0216                       CLR.W    ioCC0216
0CC6| 4EBA FE78                             JSR      iCursorDisplay
0CCA| 4E75                             RTS
0CCC|
0CCC|                                     ; |=====|
0CCC|                                     ; | ROUTINE : iBusyImage
0CCC|                                     ; |=====|
0CCC|
0CCC|                                     ; PROCEDURE BusyImage(hotX: Pixels; hotY: Pixels; height: CursorHeight;
0CCC|                                     ;                                     data: CursorPtr; mask: CursorPtr);
0CCC|
0CCC|                                     iBusyImage: ; L00CD4
0CCC|
0CCC| 48E7 F0F0                             MOVEM.L  D0-D3/A0-A3,-(A7)
0CD0| 7610                             MOVEQ    #$10,D3
0CD2| 4A40                             TST.W   D0
0CD4| 6C02                             BGE.S   L00CE0
0CD6| 4240                             CLR.W   D0
0CD8| B043                             L00CE0  CMP.W   D3,D0
0CDA| 6F02                             BLE.S   L00CE6
0CDC| 3003                             MOVE.W   D3,D0
0CDE| 4A41                             L00CE6  TST.W   D1
0CE0| 6C02                             BGE.S   L00CEC
0CE2| 4241                             CLR.W   D1
0CE4| B243                             L00CEC  CMP.W   D3,D1
0CE6| 6F02                             BLE.S   L00CF2
0CE8| 3203                             MOVE.W   D3,D1
0CEA| 4A42                             L00CF2  TST.W   D2
0CEC| 6C02                             BGE.S   L00CF8
0CEE| 4241                             CLR.W   D1
0CF0| 0C42 0020                         L00CF8  CMPI.W  #$0020,D2
0CF4| 6F04                             BLE.S   L00D02
0CF6| 343C 0020                         MOVE.W   #$0020,D2
0CFA| 33C0 00CC 0206                   L00D02  MOVE.W   D0,ioCC0206
0D00| 33C1 00CC 0208                   MOVE.W   D1,ioCC0208
0D06| 33C2 00CC 020A                   MOVE.W   D2,ioCC020A
0D0C| 45F9 00CC 0186                   LEA      ioCC0186,A2
0D12| 47F9 00CC 01C6                   LEA      ioCC01C6,A3
0D18| 6004                             BRA.S   L00D26
0D1A|
0D1A| 34D8                             L00D22  MOVE.W   (A0)+,(A2)+
0D1C| 36D9                             MOVE.W   (A1)+,(A3)+
0D1E| 51CA FFFA                         L00D26  DBF     D2,L00D22
0D22| 4CDF 0F0F                         MOVEM.L  (A7)+,D0-D3/A0-A3
0D26| 4E75                             RTS
0D28|
0D28|                                     ; |=====|
0D28|                                     ; | ROUTINE : iBusyDelay
0D28|                                     ; |=====|
0D28|
0D28|                                     ; PROCEDURE BusyDelay(delay: MilliSeconds);
0D28|
0D28|                                     iBusyDelay: ; L00D30
0D28|
0D28| 48E7 C000                             MOVEM.L  D0/D1,-(A7)
0D2C| 4A80                             TST.L   D0
0D2E| 6E0E                             BGT.S   L00D46
0D30| 4A39 00CC 00FE                       TST.B   ioCC00FE
0D36| 6628                             BNE.S   L00D68
0D38| 4EBA 0030                             JSR      L00D72
0D3C| 6022                             BRA.S   L00D68
0D3E|
0D3E| 4A39 00CC 00FE                   L00D46  TST.B   ioCC00FE
0D44| 670E                             BEQ.S   L00D5C
0D46| 4EBA FD52                             JSR      iCursorHide
0D4A| 4239 00CC 00FE                       CLR.B   ioCC00FE

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0D50| 4EBA FDEE          JSR      iCursorDisplay
0D54| 2200          L00D5C  MOVE.L   D0,D1
0D56| 3039 00CC 020C      MOVE.W   ioCC020C,D0
0D5C| 4EBA 14B4          JSR      iAlarmRelative
0D60| 4CDF 0003          L00D68  MOVEM.L  (A7)+,D0/D1
0D64| 4E75          RTS
0D66|
0D66| 027C F9FF          L00D6E  ANDI.W   #$F9FF,SR
0D6A| 4A39 00CC 0213      L00D72  TST.B    ioCC0213
0D70| 670E          BEQ.S    L00D88
0D72| 3039 00CC 020C      MOVE.W   ioCC020C,D0
0D78| 7232          MOVEQ    #$32,D1
0D7A| 4EBA 1496          JSR      iAlarmRelative
0D7E| 4E75          RTS
0D80|
0D80| 4EBA FD18          L00D88  JSR      iCursorHide
0D84| 13FC 0001 00CC 00FE  MOVE.B   #$01,ioCC00FE
0D8C| 4EBA FDB2          JSR      iCursorDisplay
0D90| 4E75          RTS
0D92|
0D92| ; |||||
0D92| ; | ROUTINE : iFrameCounter
0D92| ; |||||
0D92|
0D92| ; FUNCTION FrameCounter: Frames;
0D92|
0D92| iFrameCounter: ; L00D9A
0D92|
0D92| 2039 00CC 02A4      MOVE.L   ioCC02A4,D0
0D98| 4E75          RTS
0D9A|
0D9A| ; |||||
0D9A| ; | ROUTINE : iScreenSize
0D9A| ; |||||
0D9A|
0D9A| ; PROCEDURE ScreenSize(VAR x: Pixels; VAR y: Pixels);
0D9A|
0D9A| iScreenSize: ; L00DA2
0D9A|
0D9A| ; Note: The screen's pixel dimensions are hard-coded into SYSTEM.LLD when
0D9A| ; I think they should have been stored in either the video ROM or in
0D9A| ; the low-memory globals. -- DTC
0D9A|
0D9A| 303C 02D0          MOVE.W   #kScrnHSize,D0 ; 720 h
0D9E| 323C 016C          MOVE.W   #kScrnVSize,D1 ; 364 v
0DA2| 4E75          RTS
0DA4|
0DA4| ; |||||
0DA4| ; | ROUTINE : iScreenAddr
0DA4| ; |||||
0DA4|
0DA4| ; FUNCTION ScreenAddr: LogicalAddress;
0DA4|
0DA4| iScreenAddr: ; L00DAC
0DA4|
0DA4| 2078 0160          MOVE.L   lmScreenAddr,A0
0DA8| 4E75          RTS
0DAA|
0DAA| ; |||||
0DAA| ; | ROUTINE : iAltScreenAddr
0DAA| ; |||||
0DAA|
0DAA| ; FUNCTION AltScreenAddr: LogicalAddress;
0DAA|
0DAA| iAltScreenAddr: ; L00DB2
0DAA|
0DAA| 2078 0110          MOVE.L   lmAltScreenAddr,A0
0DAE| 4E75          RTS
0DB0|
0DB0| ; |||||
0DB0| ; | ROUTINE : iScreenKeybd
0DB0| ; |||||
0DB0|
0DB0| ; FUNCTION ScreenKeybd: VisibleScreen;
0DB0|
0DB0| iScreenKeybd: ; L00DB8
0DB0|
0DB0| 1039 00CC 02A8      MOVE.B   ioScreenKeybd,D0
0DB6| 4E75          RTS
0DB8|
0DB8| ; |||||
0DB8| ; | ROUTINE : iSetScreenKeybd
0DB8| ; |||||
0DB8|
0DB8| ; PROCEDURE SetScreenKeybd(screen: VisibleScreen);
0DB8|

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0DB8| iSetScreenKeybd: ; L00DC0
0DB8|
0DB8| 2F01 MOVE.L D1,-(A7)
0DBA| 2238 0174 MOVE.L 1m0174,D1
0DBE| 13C0 00CC 02A8 MOVE.B D0,ioScreenKeybd
0DC4| 6704 BEQ.S L00DD2
0DC6| 2238 0170 MOVE.L 1m0170,D1
0DCA| D2B8 02A4 L00DD2 ADD.L 1m02A4,D1
0DCE| E089 LSR.L #8,D1
0DD0| EE89 LSR.L #7,D1
0DD2| 13C1 00FC E800 MOVE.B D1,ioVideoAddress
0DD8| 221F MOVE.L (A7)+,D1
0DDA| 4E75 RTS
0DDC|
0DDC| ; | ROUTINE : iContrast
0DDC| ; | ROUTINE : iContrast
0DDC| ; | ROUTINE : iContrast
0DDC| ; FUNCTION Contrast: ScreenContrast;
0DDC|
0DDC| iContrast: ; L00DE4
0DDC|
0DDC| 3039 00CC 02BC MOVE.W ioCC02BC,D0
0DE2| 4E75 RTS
0DE4|
0DE4| ; | ROUTINE : iSetContrast
0DE4| ; | ROUTINE : iSetContrast
0DE4| ; | ROUTINE : iSetContrast
0DE4| ; PROCEDURE SetContrast(contrast: ScreenContrast);
0DE4|
0DE4| iSetContrast: ; L00DEC
0DE4|
0DE4| 48E7 C000 MOVEM.L D0/D1,-(A7)
0DE8| 0240 00FC ANDI.W #$00FC,D0
0DEC| 33C0 00CC 02BC MOVE.W D0,ioCC02BC
0DF2| 3239 00CC 02AA MOVE.W ioCC02AA,D1
0DF8| 9240 SUB.W D0,D1
0DFA| 6C24 BGE.S L00E28
0DFC| 4441 NEG.W D1
0DFE| 6020 BRA.S L00E28
0E00|
0E00| 48E7 C000 L00E08 MOVEM.L D0/D1,-(A7)
0E04| 0240 00FC ANDI.W #$00FC,D0
0E08| 323C 0004 MOVE.W #$0004,D1
0E0C| 6012 BRA.S L00E28
0E0E|
0E0E| ; | ROUTINE : iRampContrast
0E0E| ; | ROUTINE : iRampContrast
0E0E| ; | ROUTINE : iRampContrast
0E0E| ; PROCEDURE RampContrast(contrast: ScreenContrast);
0E0E|
0E0E| iRampContrast: ; L00E16
0E0E|
0E0E| 48E7 C000 MOVEM.L D0/D1,-(A7)
0E12| 0240 00FC ANDI.W #$00FC,D0
0E16| 33C0 00CC 02BC MOVE.W D0,ioCC02BC
0E1C| 323C 0004 MOVE.W #$0004,D1
0E20| 33C0 00CC 02AE L00E28 MOVE.W D0,ioCC02AE
0E26| 33C1 00CC 02B0 MOVE.W D1,ioCC02B0
0E2C| 4EBA 000C JSR L00E42
0E30| 4CDF 0003 MOVEM.L (A7)+,D0/D1
0E34| 4E75 RTS
0E36|
0E36| 027C F9FF L00E3E ANDI.W #$F9FF,SR
0E3A| 48E7 C080 L00E42 MOVEM.L D0/D1/A0,-(A7)
0E3E| 4A39 00CC 0014 TST.B ioCC0014
0E44| 6600 00A0 BNE L00EEE
0E48| 3039 00CC 02AA MOVE.W ioCC02AA,D0
0E4E| 3239 00CC 02AE MOVE.W ioCC02AE,D1
0E54| B240 CMP.W D0,D1
0E56| 6700 009A BEQ L00EFA
0E5A| 6D0E BLT.S L00E72
0E5C| D079 00CC 02B0 ADD.W ioCC02B0,D0
0E62| B041 CMP.W D1,D0
0E64| 6F10 BLE.S L00E7E
0E66| 3001 MOVE.W D1,D0
0E68| 600C BRA.S L00E7E
0E6A|
0E6A| 9079 00CC 02B0 L00E72 SUB.W ioCC02B0,D0
0E70| B041 CMP.W D1,D0
0E72| 6C02 BGE.S L00E7E
0E74| 3001 MOVE.W D1,D0
0E76| 33C0 00CC 02AA L00E7E MOVE.W D0,ioCC02AA
0E7C| 4A39 00CC 0008 TST.B ioCC0008

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0E82| 662C          BNE.S      L00EB8
0E84| 4600          NOT.B      D0
0E86| 207C 00FC D901  MOVE.L      #ioVIA2Base,A0
0E8C| 08E8 0002 0010  BSET       #2,$0010(A0)
0E92| 08D0 0002      BSET       #2,(A0)
0E96| 117C 00FF 0018  MOVE.B      #$FF,$0018(A0)
0E9C| 1140 0008      MOVE.B      D0,$0008(A0)
0EA0| 23C0 00FC D01C  MOVE.L      D0,ioVideoContLatc
0EA6| 4228 0018      CLR.B       $0018(A0)
0EAA| 0890 0002      BCLR       #2,(A0)
0EAE| 6036          BRA.S      L00EEE
0EB0|
0EB0| 207C 00FC D901  L00EB8 MOVE.L      #ioVIA2Base,A0
0EB6| 08E8 0002 0010  BSET       #2,$0010(A0)
0EB8| 08D0 0002      BSET       #2,(A0)
0EC0| 117C 00FF 0018  MOVE.B      #$FF,$0018(A0)
0EC6| 1140 0008      MOVE.B      D0,$0008(A0)
0ECA| 08E8 0007 0010  BSET       #7,$0010(A0)
0ED0| 0890 0007      BCLR       #7,(A0)
0ED4| 08D0 0007      BSET       #7,(A0)
0ED8| 08A8 0007 0010  BCLR       #7,$0010(A0)
0EDE| 4228 0018      CLR.B      $18(A0)
0EE2| 0890 0002      BCLR       #2,(A0)
0EE6| 3039 00CC 02B2  L00EEE MOVE.W      ioCC02B2,D0
0EE8| 7232          MOVEQ     #$32,D1
0EEE| 4EBA 1322      JSR       iAlarmRelative
0EF2| 4CDF 0103      L00EFA MOVEM.L     (A7)+,D0/D1/A0
0EF6| 4E75          RTS
0EF8|
0EF8| ; |=====|
0EF8| ; | ROUTINE : iDimContrast |
0EF8| ; |=====|
0EF8|
0EF8| ; FUNCTION DimContrast: ScreenContrast;
0EF8|
0EF8| iDimContrast: ; L00F00
0EF8|
0EF8| 3039 00CC 02AC          MOVE.W      ioCC02AC,D0
0EFE| 4E75          RTS
0F00|
0F00| ; |=====|
0F00| ; | ROUTINE : iSetDimContrast |
0F00| ; |=====|
0F00|
0F00| ; PROCEDURE SetDimContrast(contrast: ScreenContrast);
0F00|
0F00| iSetDimContrast: ; L00F08
0F00|
0F00| 2F00          MOVE.L      D0,-(A7)
0F02| 0240 00FC      ANDI.W      #$00FC,D0
0F06| 33C0 00CC 02AC      MOVE.W      D0,ioCC02AC
0F0C| 201F          MOVE.L      (A7)+,D0
0F0E| 4E75          RTS
0F10|
0F10| ; |=====|
0F10| ; | ROUTINE : iFadeDelay |
0F10| ; |=====|
0F10|
0F10| ; FUNCTION FadeDelay: MilliSeconds;
0F10|
0F10| iFadeDelay: ; L00F18
0F10|
0F10| 2039 00CC 02B6      MOVE.L      ioCC02B6,D0
0F16| 4E75          RTS
0F18|
0F18| ; |=====|
0F18| ; | ROUTINE : iSetFadeDelay |
0F18| ; |=====|
0F18|
0F18| ; PROCEDURE SetFadeDelay(delay: MilliSeconds);
0F18|
0F18| iSetFadeDelay: ; L00F20
0F18|
0F18| 08F9 0000 00CC 02B4  BSET       #0,ioCC02B4
0F20| 6604          BNE.S      L00F2E
0F22| 4EBA 000E      JSR       L00F3A
0F26| 23C0 00CC 02B6  L00F2E MOVE.L      D0,ioCC02B6
0F2C| 4EBA 002E      JSR       L00F64
0F30| 4E75          RTS
0F32|
0F32| 0839 0001 00CC 02B4  L00F3A BTST       #1,ioCC02B4
0F3A| 661A          BNE.S      L00F5E
0F3C| 48E7 8000      MOVEM.L     D0,-(A7)
0F40| 08F9 0001 00CC 02B4  BSET       #1,ioCC02B4
0F48| 3039 00CC 02BC      MOVE.W      ioCC02BC,D0
0F4E| 4EBA FEB0      JSR       L00E08

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1040| ; |
1040| ; |
1040| ; FUNCTION Volume: SpeakerVolume;
1040|
1040| iVolume: ; L01048
1040|
1040| 1039 00FC DD81          MOVE.B    ioVIA1Base,D0
1046| E248                  LSR.W     #$1,D0
1048| 0240 0007              ANDI.W    #$0007,D0
104C| 4E75                  RTS
104E|
104E| ; |
104E| ; | ROUTINE : iSetVolume
104E| ; |
104E| ; |
104E| ; PROCEDURE SetVolume(volume: SpeakerVolume);
104E|
104E| iSetVolume: ; L01056
104E|
104E| 48E7 C000              MOVEM.L   D0/D1,-(A7)
1052| 0240 0007              ANDI.W    #$0007,D0
1056| E348                  LSL.W     #$1,D0
1058| 1239 00FC DD81          MOVE.B    ioVIA1Base,D1
105E| 0201 00F1              ANDI.B    #$F1,D1
1062| 8200                  OR.B      D0,D1
1064| 13C1 00FC DD81          MOVE.B    D1,ioVIA1Base
106A| 4CDF 0003              MOVEM.L   (A7)+,D0/D1
106E| 4E75                  RTS
1070|
1070| ; |
1070| ; | ROUTINE : iNoise
1070| ; |
1070| ; |
1070| ; PROCEDURE Noise(waveLength: MicroSeconds);
1070|
1070| iNoise: ; L01078
1070|
1070| 48E7 C080              MOVEM.L   D0/D1/A0,-(A7)
1074| 4A39 00CC 0009          TST.B     ioCC0009
107A| 6706                  BEQ.S      L0108A
107C| 3200                  MOVE.W    D0,D1
107E| E449                  LSR.W     #$2,D1
1080| D041                  ADD.W     D1,D0
1082| 0240 1FFF              L0108A ANDI.W    #$1FFF,D0
1086| 123C 0055              MOVE.B    #$55,D1
108A| E648                  LSR.W     #$3,D0
108C| 0C40 00FF              CMPI.W    #$00FF,D0
1090| 6F12                  BLE.S      L010AC
1092| 123C 0033              MOVE.B    #$33,D1
1096| E248                  LSR.W     #$1,D0
1098| 0C40 00FF              CMPI.W    #$00FF,D0
109C| 6F06                  BLE.S      L010AC
109E| 123C 000F              MOVE.B    #$0F,D1
10A2| E248                  LSR.W     #$1,D0
10A4| 207C 00FC DD81          L010AC MOVE.L    ioVIA1Base,A0
10AA| 1140 0010              MOVE.B    D0,$0010(A0)
10AE| B239 00CC 02C0          CMP.B     ioCC02C0,D1
10B4| 671A                  BEQ.S      L010D8
10B6| 13C1 00CC 02C0          MOVE.B    D1,ioCC02C0
10BC| 1028 0016              MOVE.B    $0016(A0),D0
10C0| 0200 00E3              ANDI.B    #$E3,D0
10C4| 0000 0010              ORI.B     #$10,D0
10C8| 1140 0016              MOVE.B    D0,$0016(A0)
10CC| 1141 0014              MOVE.B    D1,$0014(A0)
10D0| 4CDF 0103              L010D8 MOVEM.L   (A7)+,D0/D1/A0
10D4| 4E75                  RTS
10D6|
10D6| ; |
10D6| ; | ROUTINE : iSilence
10D6| ; |
10D6| ; |
10D6| ; PROCEDURE Silence;
10D6|
10D6| iSilence: ; L010DE
10D6|
10D6| 4239 00CC 02C0          CLR.B     ioCC02C0
10DC| 0239 00E3 00FC DD97    ANDI.B    #$E3,ioFCDD97
10E4| 4E75                  RTS
10E6|
10E6| ; |
10E6| ; | ROUTINE : iBeep
10E6| ; |
10E6| ; |
10E6| ; PROCEDURE Beep(waveLength: MicroSeconds; duration: MilliSeconds);
10E6|
10E6| iBeep: ; L010EE

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10E6|
10E6| 2F00                MOVE.L    D0,-(A7)
10E8| 4EBA FF86          JSR        iNoise
10EC| 3039 00CC 02BE    MOVE.W    ioCC02BE,D0
10F2| 4EBA 111E          JSR        iAlarmRelative
10F6| 201F              MOVE.L    (A7)+,D0
10F8| 4E75              RTS
10FA|
10FA| ; |||
10FA| ; | ROUTINE : iSys_B0_Call
10FA| ; |||
10FA|
10FA| iSys_B0_Call: ; L01102
10FA|
10FA| 48E7 9FE0          MOVEM.L   D0/D3-D7/A0-A2,-(A7)
10FE| 40E7              MOVE       SR,-(A7)
1100| 007C 0700          ORI.W     #$0700,SR      ; $0700 = % 0000 0111 0000 0000
1104| 4840              SWAP      D0
1106| D080              ADD.L     D0,D0
1108| 0280 00FE 0000    ANDI.L     #$00FE0000,D0 ; $FE0000 = % 1111 1110 0000 0000 0000
110E| 0680 0000 8000    ADDI.L     #$00008000,D0 ; $008000 = % 0000 0000 1000 0000 0000
1114| 2040              MOVE.L    D0,A0
1116| 43FA 0032          LEA        L01152,A1
111A| 247C 000F 4000    MOVE.L     #$000F4000,A2
1120| 4CD2 00F8          MOVEM.L   (A2),D3-D7
1124| 48E7 1F00          MOVEM.L   D3-D7,-(A7)
1128| 4CD1 00F8          MOVEM.L   (A1),D3-D7
112C| 48D2 00F8          MOVEM.L   D3-D7,(A2)
1130| 4E92              JSR        (A2)
1132| 4CDF 00F8          MOVEM.L   (A7)+,D3-D7
1136| 48D2 00F8          MOVEM.L   D3-D7,(A2)
113A| 46DF              MOVE       (A7)+,SR
113C| 0241 0FFF          ANDI.W     #$0FFF,D1      ; $0FFF = % 0000 1111 1111 1111
1140| 0242 0FFF          ANDI.W     #$0FFF,D2      ; $0FFF = % 0000 1111 1111 1111
1144| 4CDF 07F9          MOVEM.L   (A7)+,D0/D3-D7/A0-A2
1148| 4E75              RTS
114A|
114A| 4A39 00FC E010    L01152 TST.B     ioSetSETUP
1150| 3228 0008          MOVE.W     $0008(A0),D1
1154| 3410              MOVE.W     (A0),D2
1156| 4A39 00FC E012    TST.B     ioResetSETUP
115C| 4E75              RTS
115E|
115E| ; |||
115E| ; | ROUTINE : iSys_B2_Call
115E| ; |||
115E|
115E| iSys_B2_Call: ; L01166
115E|
115E| 48E7 9FE0          MOVEM.L   D0/D3-D7/A0-A2,-(A7)
1162| 0241 0FFF          ANDI.W     #$0FFF,D1
1166| 0242 0FFF          ANDI.W     #$0FFF,D2
116A| 40E7              MOVE       SR,-(A7)
116C| 007C 0700          ORI.W     #$0700,SR
1170| 4840              SWAP      D0
1172| D080              ADD.L     D0,D0
1174| 0280 00FE 0000    ANDI.L     #$00FE0000,D0
117A| 0680 0000 8000    ADDI.L     #$00008000,D0
1180| 2040              MOVE.L    D0,A0
1182| 43FA 002A          LEA        L011B6,A1
1186| 247C 000F 4000    MOVE.L     #$000F4000,A2
118C| 4CD2 00F8          MOVEM.L   (A2),D3-D7
1190| 48E7 1F00          MOVEM.L   D3-D7,-(A7)
1194| 4CD1 00F8          MOVEM.L   (A1),D3-D7
1198| 48D2 00F8          MOVEM.L   D3-D7,(A2)
119C| 4E92              JSR        (A2)
119E| 4CDF 00F8          MOVEM.L   (A7)+,D3-D7
11A2| 48D2 00F8          MOVEM.L   D3-D7,(A2)
11A6| 46DF              MOVE       (A7)+,SR
11A8| 4CDF 07F9          MOVEM.L   (A7)+,D0/D3-D7/A0-A2
11AC| 4E75              RTS
11AE|
11AE| 4A39 00FC E010    L011B6 TST.B     ioSetSETUP
11B4| 3141 0008          MOVE.W     D1,$0008(A0)
11B8| 3082              MOVE.W     D2,(A0)
11BA| 4A39 00FC E012    TST.B     ioResetSETUP
11C0| 4E75              RTS
11C2|
11C2| 001C 01D5 0284 0332 L011CA .WORD   $001C,$01D5,$0284,$0332,$03FF,$04F3
11CA| 03FF 04F3
11CE| 057B 0716 0612 01DF .WORD   $057B,$0716,$0612,$01DF,$0689,$02DA
11D6| 0689 02DA
11DA| 069D 05FC 1B20 101B .WORD   $069D,$05FC,$1B20,$101B,$2D1C,$1D37
11E2| 2D1C 1D37
11E6| 3839 1E34 3536 1F2E .WORD   $3839,$1E34,$3536,$1F2E,$3233,$0324
11EE| 3233 0324

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11F2| 2010 1B2D 2B2A 3738      .WORD $2010,$1B2D,$2B2A,$3738,$392F,$3435
11FA| 392F 3435
11FE| 362C 2E32 3303 0140      .WORD $362C,$2E32,$3303,$0140,$402D,$3D5C
1206| 402D 3D5C
120A| 0070 0803 000D 3000      .WORD $0070,$0803,$000D,$3000,$002F,$3100
1212| 002F 3100
1216| 0039 3075 696A 6B5B      .WORD $0039,$3075,$696A,$6B5B,$5D6D,$6C3B
121E| 5D6D 6C3B
1222| 2720 2C2E 6F65 3637      .WORD $2720,$2C2E,$6F65,$3637,$3835,$7274
122A| 3835 7274
122E| 7960 6667 6876 6362      .WORD $7960,$6667,$6876,$6362,$6E61,$3233
1236| 6E61 3233
123A| 3431 7173 7709 7A78      .WORD $3431,$7173,$7709,$7A78,$6400,$0000
1242| 6400 0000
1246| 0002 4040 2D3D 5C00      .WORD $0002,$4040,$2D3D,$5C00,$5008,$0300
124E| 5008 0300
1252| 0D30 0000 2F31 0000      .WORD $0D30,$0000,$2F31,$0000,$3930,$5549
125A| 3930 5549
125E| 4A4B 5B5D 4D4C 3B27      .WORD $4A4B,$5B5D,$4D4C,$3B27,$202C,$2E4F
1266| 202C 2E4F
126A| 4536 3738 3552 5459      .WORD $4536,$3738,$3552,$5459,$6046,$4748
1272| 6046 4748
1276| 5643 424E 4132 3334      .WORD $5643,$424E,$4132,$3334,$3151,$5357
127E| 3151 5357
1282| 095A 5844 0000 0000      .WORD $095A,$5844,$0000,$0000,$0440,$405F
128A| 0440 405F
128E| 2B7C 0050 0803 000D      .WORD $2B7C,$0050,$0803,$000D,$3000,$003F
1296| 3000 003F
129A| 3100 0028 2955 494A      .WORD $3100,$0028,$2955,$494A,$4B7B,$7D4D
12A2| 4B7B 7D4D
12A6| 4C3A 2220 3C3E 4F45      .WORD $4C3A,$2220,$3C3E,$4F45,$5E26,$2A25
12AE| 5E26 2A25
12B2| 5254 597E 4647 4856      .WORD $5254,$597E,$4647,$4856,$4342,$4E41
12BA| 4342 4E41
12BE| 4023 2421 5153 5709      .WORD $4023,$2421,$5153,$5709,$5A58,$4400
12C6| 5A58 4400
12CA| 0000 0008 4040 D0AD      .WORD $0000,$0008,$4040,$D0AD,$C700,$B908
12D2| C700 B908
12D6| 0300 0D30 0000 D631      .WORD $0300,$0D30,$0000,$D631,$0000,$BBBC
12DE| 0000 BBBC
12E2| 1410 C600 D2D4 B5C2      .WORD $1410,$C600,$D2D4,$B5C2,$C9BE,$CAB2
12EA| C9BE CAB2
12EE| B3BF 13A4 A6A5 B0A8      .WORD $B3BF,$13A4,$A6A5,$B0A8,$A0B4,$11C4
12F6| A0B4 11C4
12FA| A900 C38D BA12 8CAA      .WORD $A900,$C38D,$BA12,$8CAA,$A3A2,$C1CF
1302| A3A2 C1CF
1306| A7B7 09BD C5B6 0000      .WORD $A7B7,$09BD,$C5B6,$0000,$0000,$1040
130E| 0000 1040
1312| 40D0 ADC7 00B9 0803      .WORD $40D0,$ADC7,$00B9,$0803,$000D,$3000
131A| 000D 3000
131E| 00D6 3100 00BB BC14      .WORD $00D6,$3100,$00BB,$BC14,$10C6,$00D2
1326| 10C6 00D2
132A| D4B5 C2C9 AECA B2B3      .WORD $D4B5,$C2C9,$AECA,$B2B3,$AF13,$A4A6
1332| AF13 A4A6
1336| A5B0 A8A0 B411 C4A9      .WORD $A5B0,$A8A0,$B411,$C4A9,$00C3,$82BA
133E| 00C3 82BA
1342| 1281 AAA3 A2C1 CEA7      .WORD $1281,$AAA3,$A2C1,$CEA7,$B709,$BDC5
134A| B709 BDC5
134E| B600 0000 0020 4040      .WORD $B600,$0000,$0020,$4040,$D1B1,$C800
1356| D1B1 C800
135A| B808 0300 0D30 0000      .WORD $B808,$0300,$0D30,$0000,$C031,$0000
1362| C031 0000
1366| BBBC 1410 C600 D3D5      .WORD $BBBC,$1410,$C600,$D3D5,$B5C2,$C9AE
136E| B5C2 C9AE
1372| CAB2 B3AF 13A4 A6A1      .WORD $CAB2,$B3AF,$13A4,$A6A1,$B0A8,$A0B4
137A| B0A8 A0B4
137E| 11C4 A900 D782 BA12      .WORD $11C4,$A900,$D782,$BA12,$81AA,$A3A2
1386| 81AA A3A2
138A| C1CE A7B7 09BD C5B6      .WORD $C1CE,$A7B7,$09BD,$C5B6,$0000,$0000
1392| 0000 0000
1396| 8040 3853 017C 3855      .WORD $8040,$3853,$017C,$3855,$015C,$8040
139E| 015C 8040
13A2| 0341 033D 5D3C 0441      .WORD $0341,$033D,$5D3C,$0441,$032B,$7D3E
13AA| 032B 7D3E
13AE| 034C 0127 044C 0122      .WORD $034C,$0127,$044C,$0122,$0356,$0213
13B6| 0356 0213
13BA| 5B04 5602 BC7B 015A      .WORD $5B04,$5602,$BC7B,$015A,$0196,$065A
13C2| 0196 065A
13C6| 0184 035B 013B 045B      .WORD $0184,$035B,$013B,$045B,$013A,$045D
13CE| 013A 045D
13D2| 023F 2104 6101 2F01      .WORD $023F,$2104,$6101,$2F01,$6801,$8D06
13DA| 6801 8D06
13DE| 6801 8204 7101 C004      .WORD $6801,$8204,$7101,$C004,$7401,$C138
13E6| 7401 C138
13EA| 4103 B1A6 B220 4301      .WORD $4103,$B1A6,$B220,$4301,$B338,$4C01
13F2| B338 4C01

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13F6| 0038 5002 00AD 3856      .WORD $0038,$5002,$00AD,$3856,$02BB,$0038
13FE| 02BB 0038
1402| 5A02 1211 385D 02A5      .WORD $5A02,$1211,$385D,$02A5,$C920,$5E01
140A| C920 5E01
140E| D608 6001 BE30 6001      .WORD $D608,$6001,$BE30,$6001,$AE38,$6202
1416| AE38 6202
141A| 7CA1 2062 015C 1868      .WORD $7CA1,$2062,$015C,$1868,$01C7,$2068
1422| 01C7 2068
1426| 01C8 386A 0240 AA38      .WORD $01C8,$386A,$0240,$AA38,$6D01,$A938
142E| 6D01 A938
1432| 6F01 0018 7101 D220      .WORD $6F01,$0018,$7101,$D220,$7101,$D318
143A| 7101 D318
143E| 7401 D420 7401 D580      .WORD $7401,$D420,$7401,$D580,$4003,$4202
1446| 4003 4202
144A| 115C 0442 0212 7C04      .WORD $115C,$0442,$0212,$7C04,$6101,$1004
1452| 6101 1004
1456| 6801 2303 6801 A404      .WORD $6801,$2303,$6801,$A404,$7201,$A318
145E| 7201 A318
1462| 4202 D4C7 2042 02D5      .WORD $4202,$D4C7,$2042,$02D5,$C838,$5301
146A| C838 5301
146E| 0008 5601 CF30 5601      .WORD $0008,$5601,$CF30,$5601,$CE18,$5701
1476| CE18 5701
147A| D220 5701 D338 6101      .WORD $D220,$5701,$D338,$6101,$0020,$6301
1482| 0020 6301
1486| A538 6801 A138 6B01      .WORD $A538,$6801,$A138,$6B01,$0038,$6F01
148E| 0038 6F01
1492| 0038 7201 0038 7501      .WORD $0038,$7201,$0038,$7501,$0080,$4203
149A| 0080 4203
149E| 4201 1004 4201 1403      .WORD $4201,$1004,$4201,$1403,$5B01,$1304
14A6| 5B01 1304
14AA| 5B01 1104 6101 C403      .WORD $5B01,$1104,$6101,$C403,$6801,$2704
14B2| 6801 2704
14B6| 6801 2204 7201 2338      .WORD $6801,$2204,$7201,$2338,$4201,$0038
14BE| 4201 0038
14C2| 5201 0018 5602 D2D4      .WORD $5201,$0018,$5602,$D2D4,$2056,$02D3
14CA| 2056 02D3
14CE| D538 5B01 0008 6001      .WORD $D538,$5B01,$0008,$6001,$BE30,$6001
14D6| BE30 6001
14DA| AE38 6101 A438 6901      .WORD $AE38,$6101,$A438,$6901,$0038,$6F01
14E2| 0038 6F01
14E6| 1238 7201 A308 7501      .WORD $1238,$7201,$A308,$7501,$CF30,$7501
14EE| CF30 7501
14F2| CE80 4047 0340 04A7      .WORD $CE80,$4047,$0340,$04A7,$1323,$3C04
14FA| 1323 3C04
14FE| 4004 3F11 103E 034C      .WORD $4004,$3F11,$103E,$034C,$012D,$044C
1506| 012D 044C
150A| 015F 0450 0229 3D01      .WORD $015F,$0450,$0229,$3D01,$5601,$9F06
1512| 5601 9F06
1516| 5601 8603 5701 2B04      .WORD $5601,$8603,$5701,$2B04,$5701,$2A01
151E| 5701 2A01
1522| 5A02 9A8A 065A 0285      .WORD $5A02,$9A8A,$065A,$0285,$8004,$5D02
152A| 8004 5D02
152E| 3B3A 0461 0326 2F28      .WORD $3B3A,$0461,$0326,$2F28,$0167,$017A
1536| 0167 017A
153A| 0667 015A 0368 0140      .WORD $0667,$015A,$0368,$0140,$0468,$01A3
1542| 0468 01A3
1546| 0471 0222 A401 7901      .WORD $0471,$0222,$A401,$7901,$7906,$7901
154E| 7906 7901
1552| 5938 4003 C027 A520      .WORD $5938,$4003,$C027,$A520,$4201,$A118
155A| 4201 A118
155E| 4301 B220 4301 B318      .WORD $4301,$B220,$4301,$B318,$4C01,$D020
1566| 4C01 D020
156A| 4C01 D138 5002 7DAD      .WORD $4C01,$D138,$5002,$7DAD,$3853,$0500
1572| 3853 0500
1576| BCC6 00B1 085A 01CF      .WORD $BCC6,$00B1,$085A,$01CF,$305A,$01CE
157E| 305A 01CE
1582| 385D 01B0 185E 01C9      .WORD $385D,$01B0,$185E,$01C9,$205E,$01D6
158A| 205E 01D6
158E| 3860 05AA 5D7C 7B5B      .WORD $3860,$05AA,$5D7C,$7B5B,$2062,$015C
1596| 2062 015C
159A| 3867 02BD D420 6801      .WORD $3867,$02BD,$D420,$6801,$D538,$6B01
15A2| D538 6B01
15A6| BB18 7101 D220 7101      .WORD $BB18,$7101,$D220,$7101,$D338,$7201
15AE| D338 7201
15B2| A638 7502 C700 2075      .WORD $A638,$7502,$C700,$2075,$01C8,$3879
15BA| 01C8 3879
15BE| 01B4 8040 4703 4004      .WORD $01B4,$8040,$4703,$4004,$292D,$113C
15C6| 292D 113C
15CA| 0440 04A1 5FA3 3E03      .WORD $0440,$04A1,$5FA3,$3E03,$4C01,$3D04
15D2| 4C01 3D04
15D6| 4C01 2B03 5002 8D88      .WORD $4C01,$2B03,$5002,$8D88,$0450,$0239
15DE| 0450 0239
15E2| 3003 5603 1024 2C04      .WORD $3003,$5603,$1024,$2C04,$5603,$142A
15EA| 5603 142A
15EE| 3F01 5A01 6D06 5A01      .WORD $3F01,$5A01,$6D06,$5A01,$4D03,$5B04
15F6| 4D03 5B04

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15FA 9D20 3B3A 045B 0425 .WORD $9D20,$3B3A,$045B,$0425,$202E,$2F03
1602 202E 2F03
1606 6104 A48F 2128 0461 .WORD $6104,$A48F,$2128,$0461,$0436,$3738
160E 0436 3738
1612 3503 6801 4004 6801 .WORD $3503,$6801,$4004,$6801,$2301,$7001
161A 2301 7001
161E 7106 7001 5103 7104 .WORD $7106,$7001,$5103,$7104,$8E22,$2726
1626 8E22 2726
162A 0471 0432 3334 3101 .WORD $0471,$0432,$3334,$3101,$7505,$6173
1632 7505 6173
1636 7A09 7706 7505 4153 .WORD $7A09,$7706,$7505,$4153,$5A09,$5738
163E 5A09 5738
1642 4001 7D18 4101 D020 .WORD $4001,$7D18,$4101,$D020,$4101,$D138
164A 4101 D138
164E 4202 13B2 2043 01B3 .WORD $4202,$13B2,$2043,$01B3,$184C,$01AD
1656 184C 01AD
165A 204C 01B1 3850 0482 .WORD $204C,$01B1,$3850,$0482,$B0BB,$BC38
1662 B0BB BC38
1666 5504 00CF A2C0 3056 .WORD $5504,$00CF,$A2C0,$3056,$01CE,$385A
166E 01CE 385A
1672 01B5 185D 02C9 7C20 .WORD $01B5,$185D,$02C9,$7C20,$5D02,$D65C
167A 5D02 D65C
167E 3860 05AA A6C7 C17B .WORD $3860,$05AA,$A6C7,$C17B,$2062,$01C8
1686 2062 01C8
168A 3868 01A5 386A 0200 .WORD $3868,$01A5,$386A,$0200,$0038,$6D01
1692 0038 6D01
1696 A938 7005 005D D2D4 .WORD $A938,$7005,$005D,$D2D4,$5B20,$7202
169E 5B20 7202
16A2 D3D5 0875 018C 3075 .WORD $D3D5,$0875,$018C,$3075,$0181,$3877
16AA 0181 3877
16AE 01BD 3879 01B7 8044 .WORD $01BD,$3879,$01B7,$8044,$0340,$032D
16B6 0340 032D
16BA 3DA4 0440 035F 2BA1 .WORD $3DA4,$0440,$035F,$2BA1,$034C,$0198
16C2 034C 0198
16C6 044C 0121 0350 0288 .WORD $044C,$0121,$0350,$0288,$8E03,$5601
16CE 8E03 5601
16D2 9304 5601 1003 6104 .WORD $9304,$5601,$1003,$6104,$8F29,$A38D
16DA 8F29 A38D
16DE 0170 0161 0670 0141 .WORD $0170,$0161,$0670,$0141,$0371,$0322
16E6 0371 0322
16EA 2728 0175 0171 0675 .WORD $2728,$0175,$0171,$0675,$0151,$3840
16F2 0151 3840
16F6 03D0 AD00 2040 02D1 .WORD $03D0,$AD00,$2040,$02D1,$B138,$4C01
16FE B138 4C01
1702 C138 5006 1113 1400 .WORD $C138,$5006,$1113,$1400,$BBBC,$385A
170A BBBC 385A
170E 01B5 3862 037D B082 .WORD $01B5,$3862,$037D,$B082,$2062,$015D
1716 2062 015D
171A 386B 01C6 0870 018C .WORD $386B,$01C6,$0870,$018C,$3070,$0181
1722 3070 0181
1726 1871 04D2 D47B C720 .WORD $1871,$04D2,$D47B,$C720,$7104,$D3D5
172E 7104 D3D5
1732 5BC8 3875 0100 3877 .WORD $5BC8,$3875,$0100,$3877,$01BD,$8043
173A 01BD 8043
173E 0140 032B 8E27 0240 .WORD $0140,$032B,$8E27,$0240,$032B,$8327
1746 032B 8327
174A 0441 0283 2A01 5602 .WORD $0441,$0283,$2A01,$5602,$8C9F,$0656
1752 8C9F 0656
1756 0281 8601 6702 7913 .WORD $0281,$8601,$6702,$7913,$0267,$0259
175E 0267 0259
1762 1304 6702 5911 0472 .WORD $1304,$6702,$5911,$0472,$0123,$0179
176A 0123 0179
176E 017A 0679 015A 1840 .WORD $017A,$0679,$015A,$1840,$01B1,$1841
1776 01B1 1841
177A 02BB D420 4102 BCD5 .WORD $02BB,$D420,$4102,$BCD5,$3852,$0600
1782 3852 0600
1786 A6C6 00CF 1430 5601 .WORD $A6C6,$00CF,$1430,$5601,$CE08,$5A01
178E CE08 5A01
1792 BF30 5A01 AF38 5F01 .WORD $BF30,$5A01,$AF38,$5F01,$BD38,$6702
179A BD38 6702
179E B4C7 2068 01C8 386B .WORD $B4C7,$2068,$01C8,$386B,$0110,$3870
17A6 0110 3870
17AA 0140 3872 01A3 3875 .WORD $0140,$3872,$01A3,$3875,$02A5,$A720
17B2 02A5 A720
17B6 7501 A138 7901 A480 .WORD $7501,$A138,$7901,$A480,$4601,$5A02
17BE 4601 5A02
17C2 BEBF 065A 02AE AF08 .WORD $BEBF,$065A,$02AE,$AF08,$5A02,$8A9A
17CA 5A02 8A9A
17CE 305A 0280 8580 4303 .WORD $305A,$0280,$8580,$4303,$4003,$2710
17D6 4003 2710
17DA 2404 4201 A303 5602 .WORD $2404,$4201,$A303,$5602,$9F14,$0456
17E2 9F14 0456
17E6 028F 2103 5A02 9A8A .WORD $028F,$2103,$5A02,$9A8A,$045A,$028E
17EE 045A 028E
17F2 8803 6801 A404 6801 .WORD $8803,$6801,$A404,$6801,$A104,$7203
17FA A104 7203

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17FE| 2A8D 2B38 4102 13A2      .WORD $2A8D,$2B38,$4102,$13A2,$2041,$015E
1806| 2041 015E
180A| 3852 0200 C118 5701      .WORD $3852,$0200,$C118,$5701,$D420,$5701
1812| D420 5701
1816| D538 5A01 0018 5D01      .WORD $D538,$5A01,$0018,$5D01,$C720,$5D01
181E| C720 5D01
1822| C838 6702 BDA6 2068      .WORD $C838,$6702,$BDA6,$2068,$01A5,$386A
182A| 01A5 386A
182E| 0140 386D 01A9 3872      .WORD $0140,$386D,$01A9,$3872,$0323,$82B1
1836| 0323 82B1
183A| 2074 01B0 0875 01CF      .WORD $2074,$01B0,$0875,$01CF,$3075,$01CE
1842| 3075 01CE
1846| 3876 01A7 8048 0356      .WORD $3876,$01A7,$8048,$0356,$018F,$0456
184E| 018F 0456
1852| 019F 035A 028E 8804      .WORD $019F,$035A,$028E,$8804,$5A02,$9A8A
185A| 5A02 9A8A
185E| 8040 0342 0288 C704      .WORD $8040,$0342,$0288,$C704,$4202,$8FC8
1866| 4202 8FC8
186A| 034C 018E 0356 0210      .WORD $034C,$018E,$0356,$0210,$9D04,$5602
1872| 9D04 5602
1876| 1411 035B 018D 045D      .WORD $1411,$035B,$018D,$045D,$022C,$2F04
187E| 022C 2F04
1882| 6101 A403 6801 3C04      .WORD $6101,$A403,$6801,$3C04,$6801,$3E08
188A| 6801 3E08
188E| 4202 BE00 3042 02AE      .WORD $4202,$BE00,$3042,$02AE,$0018,$4C01
1896| 0018 4C01
189A| 1338 5202 0000 3855      .WORD $1338,$5202,$0000,$3855,$017C,$385B
18A2| 017C 385B
18A6| 0182 185D 0200 5C20      .WORD $0182,$185D,$0200,$5C20,$5D02,$00D6
18AE| 5D02 00D6
18B2| 3860 02AA A218 6801      .WORD $3860,$02AA,$A218,$6801,$B220,$6801
18BA| B220 6801
18BE| B338 6D01 0018 7103      .WORD $B338,$6D01,$0018,$7103,$5D7B,$7D20
18C6| 5D7B 7D20
18CA| 7103 5DA3 7D18 7401      .WORD $7103,$5DA3,$7D18,$7401,$5B20,$7401
18D2| 5B20 7401
18D6| C180 242B 022E 2C1B      .WORD $C180,$242B,$022E,$2C1B,$2C01,$2C80
18DE| 2C01 2C80
18E2| 0000 0F01 240C 250B      L018EA .WORD $0000,$0F01,$240C,$250B,$2608,$270A
18EA| 2608 270A
18EE| 2909 2A0D 2B06 2C05      .WORD $2909,$2A0D,$2B06,$2C05,$2D04,$2E03
18F6| 2D04 2E03
18FA| 2F02 3F00 FF00          .WORD $2F02,$3F00,$FF00
1900|
1900| ; |||
1900| ; | ROUTINE : iKeyboard
1900| ; |||
1900|
1900| ; FUNCTION Keyboard: KeybdId;
1900|
1900| iKeyboard: ; L01908
1900|
1900| 4240          CLR.W    D0
1902| 1039 00CC 02CE      MOVE.B    ioCC02CE,D0
1908| 4E75          RTS
190A|
190A| ; |||
190A| ; | ROUTINE : iLegends
190A| ; |||
190A|
190A| ; FUNCTION Legends: KeybdId;
190A|
190A| iLegends: ; L01912
190A|
190A| 4240          CLR.W    D0
190C| 1039 00CC 02CF      MOVE.B    ioKeyBdID,D0
1912| 4E75          RTS
1914|
1914| ; |||
1914| ; | ROUTINE : iSetLegends
1914| ; |||
1914|
1914| ; PROCEDURE SetLegends(id: KeybdId);
1914|
1914| iSetLegends: ; L0191C
1914|
1914| 48E7 C080      MOVEM.L   D0/D1/A0,-(A7)
1918| 0240 003F      ANDI.W    #$003F,D0 ; $003F = % 0000 0000 0011 1111
191C| 13C0 00CC 02CF      MOVE.B    D0,ioKeyBdID
1922| 207C 00CC 02D2      MOVE.L    #ioCC02D2,A0
1928| 43E8 0300      LEA        $0300(A0),A1
192C| 4281          CLR.L    D1
192E| 20C1          MOVE.L   D1,(A0)+
1930| B1C9          CMPA.L   A1,A0
1932| 6DFA          BLT.S    L01936
1934| 41FA FFAC      LEA        L018EA,A0

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L01940      ADDQ.W      #$2,A0
             CMP.B       (A0),D0
             BEQ.S       L0194C
             CMPI.B      #$FF,(A0)
L0194C      BNE.S       L01940
             CLR.W        D0
             MOVE.B       $0001(A0),D0
             JSR          L0195C
             MOVEM.L     (A7)+,D0/D1/A0
             RTS

L0195C      MOVEM.L     D0-D3/A0/A1,-(A7)
             LEA          L011CA,A0
             ADD.W        D0,D0
L0196A      ADDA.W       $00(A0,D0.W),A0
             MOVE.B       (A0),D0
             CMPI.B      #$80,D0
             BEQ.S       L019BC
             CMPI.B      #$40,D0
             BLT.S       L01984
             SUBI.B      #$40,D0
             JSR          L0195C
             ADDQ.W       #$1,A0
             BRA.S        L0196A

L01984      CLR.W        D1
             MOVE.B       $0001(A0),D1
             CLR.W        D2
             MOVE.B       $0002(A0),D2
             MOVE.L       #iOCC02D2,A1
L01998      D1,A1
             BTST         #0,D0
             BEQ.S       L019AE
L019A0      CLR.W        D3
             CMP.W        D2,D3
             BGE.S       L019AE
             MOVE.B       $03(A0,D3.W),$00(A1,D3.W)
             ADDQ.W       #$1,D3
             BRA.S        L019AC

L019AE      ADDA.W       #$0080,A1
             LSR.W        #$1,D0
             BNE.S       L01998
             ADDQ.W       #$3,A0
             ADDA.W       D2,A0
             BRA.S        L0196A

L019BC      MOVEM.L     (A7)+,D0-D3/A0/A1
             RTS

L019C2      .WORD       $7B9E,$0000,$FFFF,$0000,$FECC,$FFFF
L019D2      .WORD       $FFFF,$FFF0
L019E2      .WORD       $0000,$0000,$FFFF,$0000,$FECC,$FFFF
             .WORD       $FFFF,$FFF0
L019E2      .WORD       $007D,$017E,$024E,$0A7C,$037F
L019ED      .BYTE       $04
             .BYTE       $06
             .WORD       $0000
L019F0      .WORD       $1061,$8910,$6590,$1069,$9410,$6F99
             .WORD       $1075,$9E10,$205E,$1161,$8811,$41CB
             .WORD       $1165,$8F11,$6993,$116F,$9811,$759D
             .WORD       $1120,$6012,$618B,$1241,$CC12,$6E96
             .WORD       $124E,$8412,$6F9B,$124F,$CD12,$207E
             .WORD       $1361,$8713,$658E,$1345,$8313,$6992
             .WORD       $136F,$9713,$759C,$1320,$AB14,$618A
             .WORD       $1441,$8014,$6591,$1469,$9514,$6F9A
             .WORD       $144F,$8514,$759F,$1455,$8614,$79D8
             .WORD       $1420,$AC00,$0000
L01A62      .WORD       $0000,$0080,$0100,$0100,$0180,$0200
             .WORD       $0280,$0280

; |-----|
: | ROUTINE : iKeyIsDown
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1A6A|                                     ; |=====|
1A6A|                                     ; |=====|
1A6A|                                     ; |=====|
1A6A|                                     ; |=====|
1A6A|                                     ; |=====|
1A6A| 48E7 2080                         MOVEM.L  D2/A0,-(A7)
1A6E| 3200                             MOVE.W  D0,D1
1A70| E641                             ASR.W   #S3,D1
1A72| 0241 000C                       ANDI.W  #$000C,D1
1A76| 3400                             MOVE.W  D0,D2
1A78| 0242 001F                       ANDI.W  #$001F,D2
1A7C| 41F9 00CC 05D2                 LEA     ioCC05D2,A0
1A82| 2230 1000                       MOVE.L  $00(A0,D1.W),D1
1A86| 0501                             BTST    D2,D1
1A88| 56C1                             SNE     D1
1A8A| 0241 0001                       ANDI.W  #$0001,D1
1A8E| 4CDF 0104                       MOVEM.L  (A7)+,D2/A0
1A92| 4E75                             RTS
1A94|
1A94|                                     ; |=====|
1A94|                                     ; |ROUTINE : iKeyMap|
1A94|                                     ; |=====|
1A94|
1A94|                                     ; |PROCEDURE KeyMap(VAR keys: KeyCapSet);|
1A94|
1A94| iKeyMap: ; L01A9C
1A94|
1A94| 2039 00CC 05D2                     MOVE.L  ioCC05D2,D0 ; keycodes 0.. 31
1A9A| 2239 00CC 05D6                     MOVE.L  ioCC05D6,D1 ; keycodes 32.. 63
1AA0| 2439 00CC 05DA                     MOVE.L  ioCC05DA,D2 ; keycodes 64.. 95
1AA6| 2639 00CC 05DE                     MOVE.L  ioCC05DE,D3 ; keycodes 96..127
1AAC| 4E75                             RTS
1AAE|
1AAE|                                     ; |=====|
1AAE|                                     ; |ROUTINE : iKeybdPeek|
1AAE|                                     ; |=====|
1AAE|
1AAE|                                     ; |FUNCTION KeybdPeek(repeats: Boolean; index: KeybdQIndex;|
1AAE|                                     ; |VAR event: KeyEvent): Boolean;|
1AAE|
1AAE| iKeybdPeek: ; L01AB6
1AAE|
1AAE| 2F08                             MOVE.L  A0,-(A7)
1AB0| 4245                             CLR.W   D5
1AB2| 3600                             MOVE.W  D0,D3
1AB4| 3801                             MOVE.W  D1,D4
1AB6| 41F9 00CC 0624                     LEA     ioCC0624,A0
1ABC| 3039 00CC 0620                     MOVE.W  ioCC0620,D0
1AC2| 3239 00CC 0622                     MOVE.W  ioCC0622,D1
1AC8| 343C 001F                       MOVE.W  #$001F,D2
1ACC| 6020                             BRA.S   L01AF6
1ACE|
1ACE|                                     ; |=====|
1ACE|                                     ; |ROUTINE : iAltKeyPeek|
1ACE|                                     ; |=====|
1ACE|
1ACE|                                     ; |FUNCTION AltKeyPeek(repeats: Boolean; index: KeybdQIndex;|
1ACE|                                     ; |VAR event: KeyEvent): Boolean;|
1ACE|
1ACE| iAltKeyPeek: ; L01AD6
1ACE|
1ACE| 2F08                             MOVE.L  A0,-(A7)
1AD0| 3A3C 0001                       MOVE.W  #$0001,D5
1AD4| 3600                             MOVE.W  D0,D3
1AD6| 3801                             MOVE.W  D1,D4
1AD8| 41F9 00CC 07A8                     LEA     ioCC07A8,A0
1ADE| 3039 00CC 07A4                     MOVE.W  ioCC07A4,D0
1AE4| 3239 00CC 07A6                     MOVE.W  ioCC07A6,D1
1AEA| 343C 000F                       MOVE.W  #$000F,D2
1AEE| 4A44                             L01AF6 TST.W  D4
1AF0| 6F00 0076                         BLE     L01B70
1AF4| 9041                             SUB.W  D1,D0
1AF6| C042                             AND.W  D2,D0
1AF8| B840                             CMP.W  D0,D4
1AFA| 6E2A                             BGT.S  L01B2E
1AFC| 5344                             SUBQ.W #S1,D4
1AFE| D841                             ADD.W  D1,D4
1B00| C842                             AND.W  D2,D4
1B02| C9FC 000C                       MULS   #$000C,D4
1B06| D0C4                             ADDA.W D4,A0
1B08| 1210                             MOVE.B (A0),D1
1B0A| 1428 0001                       MOVE.B $0001(A0),D2
1B0E| 3628 0002                       MOVE.W $0002(A0),D3
1B12| 3828 0004                       MOVE.W $0004(A0),D4
1B16| 3A28 0006                       MOVE.W $0006(A0),D5

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L01B2E

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L01C26

L01C76

RepeatRate: 101690

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iSetRepeatRate: : L01C9E
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L01CAC    MOVEM.L    D0/D1/A0,-(A7)
          TST.B      i0CC060F
          BNE.S       L01D2C
          CMP.B       ioScreenKeybd,D5
          BNE.S       L01D2C
          MOVE.B      i0CC0602,D0
          EXT.W        D0
          JSR         iKeyIsDown
          TST.W        D1
          BEQ.S       L01D2C
          CMP.B       i0CC05E2,D0
          BNE.S       L01D2C
          MOVE.L      i0CC0618,D1
          CMP.L       i0CC05E4,D1
          BNE.S       L01D2C

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1CDE| 4A39 00CC 060E          TST.B      ioCC060E
1CE4| 663E                    BNE.S      L01D2C
1CE6| 41FA FCE2                LEA        L01D2C,A0
1CEA| 3200                    MOVE.W    D0,D1
1CEC| E640                    ASR.W     #3,D0
1CEE| 4641                    NOT.W     D1
1CF0| 0241 0007                ANDI.W    #0007,D1
1CF4| 0330 0000                BTST     D1,$00(A0,D0.W)
1CF8| 672A                    BEQ.S     L01D2C
1CFA| 4EBA 041E                JSR       iTimer
1CFE| B0B9 00CC 061C          CMP.L     ioCC061C,D0
1D04| 6B1E                    BMI.S     L01D2C
1D06| 23C0 00CC 060A          MOVE.L    D0,ioCC060A
1D0C| 4EBA EB68                JSR       iMouseLocation
1D10| 33C0 00CC 0606          MOVE.W    D0,ioCC0606
1D16| 33C1 00CC 0608          MOVE.W    D1,ioCC0608
1D1C| 13FC 0001 00CC 060F    MOVE.B     #01,ioCC060F
1D24| 4CDF 0103          L01D2C  MOVEM.L (A7)+,D0/D1/A0
1D28| 4E75                    RTS
1D2A|
1D2A| ; |
1D2A| ; | ROUTINE : iKeyPushed
1D2A| ; |
1D2A| ; |
1D2A| ; PROCEDURE KeyPushed(key: KeyCap);
1D2A|
1D2A| iKeyPushed: ; L01D32
1D2A|
1D2A| 08F9 0000 00CC 02B4          BSET      #0,ioCC02B4
1D32| 6604                    BNE.S     L01D40
1D34| 4EBA F1FC                JSR       L00F3A
1D38| 48E7 FFFE          L01D40  MOVEM.L D0-D7/A0-A6,-(A7)
1D3C| 2079 00CC 02C2          MOVE.L    ioCC02C2,A0
1D42| 4A39 00CC 02A8          TST.B     ioScreenKeybd
1D48| 6704                    BEQ.S     L01D56
1D4A| 41FA 00A8                LEA        L01DFC,A0
1D4E| 48E7 8080          L01D56  MOVEM.L D0/A0,-(A7)
1D52| 323C 0080          MOVE.W    #0080,D1
1D56| 4E90                    JSR       (A0)
1D58| 4CDF 0101          MOVEM.L   (A7)+,D0/A0
1D5C| 4241                    CLR.W     D1
1D5E| 4E90                    JSR       (A0)
1D60| 4CDF 7FFF          MOVEM.L   (A7)+,D0-D7/A0-A6
1D64| 4E75                    RTS
1D66|
1D66| ; |
1D66| ; | ROUTINE : iNMIKey
1D66| ; |
1D66| ; |
1D66| ; FUNCTION NMIKey: KeyCap;
1D66|
1D66| iNMIKey: ; L01D6E
1D66|
1D66| 4240                    CLR.W     D0
1D68| 1039 00CC 02D0          MOVE.B     ioNMIKeyCode,D0
1D6E| 4E75                    RTS
1D70|
1D70| ; |
1D70| ; | ROUTINE : iSetNMIKey
1D70| ; |
1D70| ; |
1D70| ; PROCEDURE SetNMIKey(key: KeyCap);
1D70|
1D70| iSetNMIKey: ; L01D78
1D70|
1D70| 48E7 E000                MOVEM.L    D0-D2,-(A7)
1D74| 2439 00CC 0016          MOVE.L     ioCC0016,D2
1D7A| 1200                    MOVE.B     D0,D1
1D7C| E808                    LSR.B      #4,D0
1D7E| 0200 0007                ANDI.B     #7,D0
1D82| 0000 0058                ORI.B      #$58,D0
1D86| 4EBA E694                JSR       L00424
1D8A| 1001                    MOVE.B     D1,D0
1D8C| 0200 000F                ANDI.B     #$0F,D0
1D90| 0000 0060                ORI.B      #$60,D0
1D94| 4EBA E686                JSR       L00424
1D98| B4B9 00CC 0016          CMP.L     ioCC0016,D2
1D9E| 4CDF 0007                MOVEM.L    (A7)+,D0-D2
1DA2| 66CC                    BNE.S     iSetNMIKey
1DA4| 52B9 00CC 0016          ADDQ.L     #1,ioCC0016
1DAA| 13C0 00CC 02D0          MOVE.B     D0,ioNMIKeyCode
1DB0| 4E75                    RTS
1DB2|
1DB2| ; |
1DB2| ; | ROUTINE : iToggleKey
1DB2| ; |

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1DB2|
1DB2| ; FUNCTION ToggleKey: KeyCap;
1DB2|
1DB2| iToggleKey: ; L01DBA
1DB2|
1DB2| 4240 CLR.W D0
1DB4| 1039 00CC 02D1 MOVE.B ioCC02D1,D0
1DBA| 4E75 RTS
1DBC|
1DBC| ; |||
1DBC| ; | ROUTINE : iSetToggleKey
1DBC| ; |||
1DBC|
1DBC| ; PROCEDURE SetToggleKey(key: KeyCap);
1DBC|
1DBC| iSetToggleKey: ; L01DC4
1DBC|
1DBC| 13C0 00CC 02D1 MOVE.B D0,ioCC02D1
1DC2| 4E75 RTS
1DC4|
1DC4| ; |||
1DC4| ; | ROUTINE : iSys_76_Call
1DC4| ; |||
1DC4|
1DC4| iSys_76_Call: ; L01DCC
1DC4|
1DC4| 2079 00CC 02C2 MOVE.L ioCC02C2,A0
1DCA| 4E75 RTS
1DCC|
1DCC| ; |||
1DCC| ; | ROUTINE : iSys_78_Call
1DCC| ; |||
1DCC|
1DCC| iSys_78_Call: ; L01DD4
1DCC|
1DCC| 23C8 00CC 02C2 MOVE.L A0,ioCC02C2
1DD2| 4E75 RTS
1DD4|
1DD4| ; |||
1DD4| ; | ROUTINE : iSys_7A_Call
1DD4| ; |||
1DD4|
1DD4| iSys_7A_Call: ; L01DDC
1DD4|
1DD4| 2079 00CC 02C6 MOVE.L ioCC02C6,A0
1DDA| 4E75 RTS
1DDC|
1DDC| ; |||
1DDC| ; | ROUTINE : iSys_7C_Call
1DDC| ; |||
1DDC|
1DDC| iSys_7C_Call: ; L01DE4
1DDC|
1DDC| 23C8 00CC 02C6 MOVE.L A0,ioCC02C6
1DE2| 4E75 RTS
1DE4|
1DE4| ; |||
1DE4| ; | ROUTINE : iSys_7E_Call
1DE4| ; |||
1DE4|
1DE4| iSys_7E_Call: ; L01DEC
1DE4|
1DE4| 2079 00CC 02CA MOVE.L ioCC02CA,A0
1DEA| 4E75 RTS
1DEC|
1DEC| ; |||
1DEC| ; | ROUTINE : iSys_80_Call
1DEC| ; |||
1DEC|
1DEC| iSys_80_Call: ; L01DF4
1DEC|
1DEC| 23C8 00CC 02CA MOVE.L A0,ioCC02CA
1DF2| 4E75 RTS
1DF4|
1DF4| L01DFC MOVE.W D0,D2
1DF6| E642 ASR.W #3,D2
1DF8| 0242 000C ANDI.W #000C,D2
1DFC| 3600 MOVE.W D0,D3
1DFE| 0243 001F ANDI.W #001F,D3
1E02| 41F9 00CC 05D2 LEA ioCC05D2,A0
1E08| 2830 2000 MOVE.L $00(A0,D2.W),D4
1E0C| 4A41 TST.W D1
1E0E| 660C BNE.S L01E24
1E10| 0784 BCLR D3,D4
1E12| 6626 BNE.S L01E42
1E14| 5279 00CC 0002 ADDQ.W #1,ioCC0002

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1E1A| 601E          BRA.S    L01E42
1E1C|
1E1C| 13C0 00CC 05E2    L01E24 MOVE.B    D0,ioCC05E2
1E22| 3F00          MOVE.W    D0,-(A7)
1E24| 4EBA 02F4      JSR      iTimer
1E28| 23C0 00CC 05E4    MOVE.L    D0,ioCC05E4
1E2E| 301F          MOVE.W    (A7)+,D0
1E30| 07C4          BSET     D3,D4
1E32| 6706          BEQ.S    L01E42
1E34| 5279 00CC 0000    ADDQ.W    #$1,ioCC0000
1E3A| 2184 2000      L01E42 MOVE.L    D4,$00(A0,D2.W)
1E3E| 3639 00CC 05E8    MOVE.W    ioCC05E8,D3
1E44| 41FA FB94      LEA      L019E2,A0
1E48| 4A50          L01E50 TST.W    (A0)
1E4A| 6710          BEQ.S    L01E64
1E4C| 1418          MOVE.B    (A0)+,D2
1E4E| B018          CMP.B    (A0)+,D0
1E50| 66F6          BNE.S    L01E50
1E52| 05C3          BSET     D2,D3
1E54| 4A41          TST.W    D1
1E56| 66F0          BNE.S    L01E50
1E58| 0583          BCLR     D2,D3
1E5A| 60EC          BRA.S    L01E50
1E5C|
1E5C| 33C3 00CC 05E8    L01E64 MOVE.W    D3,ioCC05E8
1E62| 8639 00CC 05E8    OR.B      ioCC05E8,D3
1E68| 13C3 00CC 05ED    MOVE.B    D3,ioCC05ED
1E6E| B039 00CC 02D1    CMP.B     ioCC02D1,D0
1E74| 662A          BNE.S    L01EA8
1E76| 3439 00CC 05EC    MOVE.W    ioCC05EC,D2
1E7C| 0242 0004      ANDI.W    #$0004,D2
1E80| 0C42 0004      CMPI.W    #$0004,D2
1E84| 661A          BNE.S    L01EA8
1E86| 4A41          TST.W    D1
1E88| 6700 0100      BEQ      L01F92
1E8C| 2F00          MOVE.L    D0,-(A7)
1E8E| 4EBA EF20      JSR      iScreenKeybd
1E92| 0840 0000      BCHG     #$0000,D0
1E96| 4EBA EF20      JSR      iSetScreenKeybd
1E9A| 201F          MOVE.L    (A7)+,D0
1E9C| 6000 00EC      BRA      L01F92
1EA0|
1EA0| 13C0 00CC 05EA    L01EA8 MOVE.B    D0,ioCC05EA
1EA6| 41FA FB12      LEA      L019C2,A0
1EAA| 3400          MOVE.W    D0,D2
1EAC| E642          ASR.W    #$3,D2
1EAE| 3600          MOVE.W    D0,D3
1EB0| 4643          NOT.W    D3
1EB2| 0243 0007      ANDI.W    #$0007,D3
1EB6| 0730 2000      BTST     D3,$00(A0,D2.W)
1EBA| 6700 00CE      BEQ      L01F92
1EBE| 4A41          TST.W    D1
1EC0| 671C          BEQ.S    L01EE6
1EC2| 3239 00CC 05EC    MOVE.W    ioCC05EC,D1
1EC8| 4EBA 00C2      JSR      iSys_A4_Call
1ECC| 13C0 00CC 05EB    MOVE.B    D0,ioCC05EB
1ED2| 23F9 00CC 05E4 00CC MOVE.L    ioCC05E4,ioCC05F2
1EDC| 6020          BRA.S    L01F06
1EDE|
1EDE| 0C40 0006      L01EE6 CMPI.W    #$0006,D0
1EE2| 6708          BEQ.S    L01EF4
1EE4| 0C40 0007      CMPI.W    #$0007,D0
1EE8| 6600 00A0      BNE      L01F92
1EEC| 13FC 0001 00CC 05EB L01EF4 MOVE.B    #$01,ioCC05EB
1EF4| 4EBA 0224      JSR      iTimer
1EF8| 23C0 00CC 05F2    MOVE.L    D0,ioCC05F2
1EFE| 4EBA E976      L01F06 JSR      iMouseLocation
1F02| 33C0 00CC 05EE    MOVE.W    D0,ioCC05EE
1F08| 33C1 00CC 05F0    MOVE.W    D1,ioCC05F0
1F0E| 1039 00CC 05EB    MOVE.B    ioCC05EB,D0
1F14| 4A39 00CC 060E    TST.B     ioCC060E
1F1A| 673C          BEQ.S    L01F60
1F1C| 4239 00CC 060E    CLR.B     ioCC060E
1F22| 1239 00CC 05F7    MOVE.B    ioCC05F7,D1
1F28| 41FA FABB      LEA      L019ED,A0
1F2C| 5648          L01F34 ADDQ.W    #$3,A0
1F2E| 4A10          TST.B     (A0)
1F30| 6716          BEQ.S    L01F50
1F32| B210          CMP.B    (A0),D1
1F34| 66F6          BNE.S    L01F34
1F36| 1428 0002      MOVE.B    $0002(A0),D2
1F3A| B028 0001      CMP.B    $0001(A0),D0
1F3E| 66EC          BNE.S    L01F34
1F40| 13C2 00CC 05EB    MOVE.B    D2,ioCC05EB
1F46| 6038          BRA.S    L01F88
1F48|

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1F48| 13C2 00CC 05F7      L01F50  MOVE.B   D2,ioCC05F7
1F4E| 41F9 00CC 05F6      LEA      ioCC05F6,A0
1F54| 4EBA 005A          JSR      L01FB8
1F58| 0C00 0014          L01F60  CMPI.B   #$14,D0
1F5C| 6E22          BGT.S   L01F88
1F5E| 0C00 0010          CMPI.B   #$10,D0
1F62| 6D1C          BLT.S   L01F88
1F64| 41F9 00CC 05EA      LEA      ioCC05EA,A0
1F6A| 43F9 00CC 05F6      LEA      ioCC05F6,A1
1F70| 22D8          MOVE.L   (A0)+,(A1)+
1F72| 22D8          MOVE.L   (A0)+,(A1)+
1F74| 22D8          MOVE.L   (A0)+,(A1)+
1F76| 13FC 0001 00CC 060E  MOVE.B   #$01,ioCC060E
1F7E| 600A          BRA.S   L01F92
1F80|
1F80| 41F9 00CC 05EA      L01F88  LEA      ioCC05EA,A0
1F86| 4EBA 0028          JSR      L01FB8
1F8A| 4E75          L01F92  RTS
1F8C|
1F8C| ; |-----|
1F8C| ; | ROUTINE : iSys_A4_Call |
1F8C| ; |-----|
1F8C|
1F8C| iSys_A4_Call: ; L01F94
1F8C|
1F8C| 48E7 4080          MOVEM.L  D1/A0,-(A7)
1F90| 41FA FAC8          LEA      L01A62,A0
1F94| 0241 0007          ANDI.W   #$0007,D1
1F98| D241          ADD.W   D1,D1
1F9A| 3230 1000          MOVE.W   $00(A0,D1.W),D1
1F9E| 207C 00CC 02D2      MOVE.L   #ioCC02D2,A0
1FA4| D240          ADD.W   D0,D1
1FA6| 1030 1000          MOVE.B   $00(A0,D1.W),D0
1FAA| 4CDF 0102          MOVEM.L  (A7)+,D1/A0
1FAE| 4E75          RTS
1FB0|
1FB0| 48E7 F040          L01FB8  MOVEM.L  D0-D3/A1,-(A7)
1FB4| 43F9 00CC 0624      LEA      ioCC0624,A1
1FBA| 3039 00CC 0620      MOVE.W   ioCC0620,D0
1FC0| 3239 00CC 0622      MOVE.W   ioCC0622,D1
1FC6| 343C 001F          MOVE.W   #$001F,D2
1FCA| 4A39 00CC 02A8      TST.B   ioScreenKeybd
1FD0| 6716          BEQ.S   L01FF0
1FD2| 43F9 00CC 07A8      LEA      ioCC07A8,A1
1FD8| 3039 00CC 07A4      MOVE.W   ioCC07A4,D0
1FDE| 3239 00CC 07A6      MOVE.W   ioCC07A6,D1
1FE4| 343C 000F          MOVE.W   #$000F,D2
1FE8| 3600          L01FF0  MOVE.W   D0,D3
1FEA| C7FC 000C          MULS    #$000C,D3
1FEE| 2390 3000          MOVE.L   (A0),$00(A1,D3.W)
1FF2| 23A8 0004 3004      MOVE.L   $0004(A0),$04(A1,D3.W)
1FF8| 23A8 0008 3008      MOVE.L   $0008(A0),$08(A1,D3.W)
1FFE| 5240          ADDQ.W   #$1,D0
2000| C042          AND.W   D2,D0
2002| B041          CMP.W   D1,D0
2004| 6718          BEQ.S   L02026
2006| 4A39 00CC 02A8      TST.B   ioScreenKeybd
200C| 6608          BNE.S   L0201E
200E| 33C0 00CC 0620      MOVE.W   D0,ioCC0620
2014| 6018          BRA.S   L02036
2016|
2016| 33C0 00CC 07A4      L0201E  MOVE.W   D0,ioCC07A4
201C| 6010          BRA.S   L02036
201E|
201E| 203C 0000 11C1      L02026  MOVE.L   #$000011C1,D0
2024| 223C 0000 00C8      MOVE.L   #$000000C8,D1
202A| 4EBA F0BA          JSR      iBeep
202E| 4CDF 020F          L02036  MOVEM.L  (A7)+,D0-D3/A1
2032| 4E75          RTS
2034|
2034| 2F00          L0203C  MOVE.L   D0,-(A7)
2036| 13C0 00CC 02CE      MOVE.B   D0,ioCC02CE
203C| 02B9 0000 00E0 00CC ANDI.L   #$000000E0,ioCC05D2
2046| 42B9 00CC 05D6      CLR.L   ioCC05D6
204C| 42B9 00CC 05DA      CLR.L   ioCC05DA
2052| 42B9 00CC 05DE      CLR.L   ioCC05DE
2058| 4279 00CC 05E8      CLR.W   ioCC05E8
205E| 0240 003F          ANDI.W   #$003F,D0
2062| 4EBA F8B0          JSR      iSetLegends
2066| 201F          MOVE.L   (A7)+,D0
2068| 4E75          RTS
206A|
206A| 4A40          L02072  TST.W   D0
206C| 6608          BNE.S   L0207E
206E| 5279 00CC 0004      ADDQ.W   #$1,ioCC0004
2074| 4E75          RTS

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2076|      5279 00CC 0006          L0207E ADDQ.W    #$1,iocC0006
2077|      4E75                      RTS
2078|
2079|      ; |=====|
2080|      ; | ROUTINE : iMicroTimer
2081|      ; |=====|
2082|
2083|      ; FUNCTION MicroTimer: MicroSeconds;
2084|
2085|      iMicroTimer: ; L02086
2086|
2087|      48E7 7800                MOVEM.L D1-D4,-(A7)
2088|      4283                     CLR.L     D3
2089|      4284                     CLR.L     D4
2090|      40E7                     MOVE     SR,-(A7)
2091|      007C 0700                ORI.W     #$0700,SR
2092|      2039 00CC 001A            MOVE.L   ioCC001A,D0
2093|      1639 00FC D929           MOVE.B   ioFCD929,D3
2094|      1239 00FC D969           MOVE.B   ioFCD969,D1
2095|      1439 00FC D921           MOVE.B   ioFCD921,D2
2096|      1839 00FC D929           MOVE.B   ioFCD929,D4
2097|      0CAA 0C03 00FF           CMPI.B   #$FF,D3
2098|      6602                     BNE.S     L020BA
2099|      4283                     CLR.L     D3
2100|      B843             L020BA CMP.W     D3,D4
2101|      6D0A                     BLT.S     L020C8
2102|      6E0C                     BGT.S     L020CC
2103|      0801 0006               BTST      #6,D1
2104|      6612                     BNE.S     L020D8
2105|      601A                     BRA.S     L020E2
2106|
2107|      4202             L020C8 CLR.B     D2
2108|      6016                     BRA.S     L020E2
2109|
2110|      1439 00CC 000A            MOVE.B   ioCC000A,D2
2111|      1639 00CC 000B            MOVE.B   ioCC000B,D3
2112|      0680 0000 4E20           ADDI.L   #$00004E20,D0
2113|      4EBA E484                 JSR      L00564
2114|      46DF             L020E2 MOVE     (A7)+,SR
2115|      E143                 ASL.W     #$8,D3
2116|      1602                 MOVE.B   D2,D3
2117|      4A39 00CC 0009           TST.B   ioCC0009
2118|      6718                 BEQ.S     L02108
2119|      0443 637B              SUBI.W   #$637B,D3
2120|      4443                 NEG.W     D3
2121|      E243                 ASR.W     #$1,D3
2122|      D083                 ADD.L     D3,D0
2123|      E243                 ASR.W     #$1,D3
2124|      D083                 ADD.L     D3,D0
2125|      E643                 ASR.W     #$3,D3
2126|      D083                 ADD.L     D3,D0
2127|      E643                 ASR.W     #$3,D3
2128|      D083                 ADD.L     D3,D0
2129|      6014                 BRA.S     L0211C
2130|
2131|      0443 27CA             L02108 SUBI.W   #$27CA,D3
2132|      4443                 NEG.W     D3
2133|      3403                 MOVE.W   D3,D2
2134|      EC42                 ASR.W     #$6,D2
2135|      9642                 SUB.W     D2,D3
2136|      E442                 ASR.W     #$2,D2
2137|      9642                 SUB.W     D2,D3
2138|      D083                 ADD.L     D3,D0
2139|      D083                 ADD.L     D3,D0
2140|      4CDF 001E             L0211C MOVEM.L (A7)+,D1-D4
2141|      4E75                      RTS
2142|
2143|      ; |=====|
2144|      ; | ROUTINE : iTimer
2145|      ; |=====|
2146|
2147|      ; FUNCTION Timer: MilliSeconds;
2148|
2149|      iTimer: ; L02122
2150|
2151|      2F01                   MOVE.L   D1,-(A7)
2152|      4281                     CLR.L     D1
2153|      40E7                     MOVE     SR,-(A7)
2154|      007C 0700                ORI.W     #$0700,SR
2155|      2039 00CC 001E            MOVE.L   ioCC001E,D0
2156|      1239 00FC D929           MOVE.B   ioFCD929,D1
2157|      0839 0006 00FC D969       BTST      #6,ioFCD969
2158|      670C                     BEQ.S     L0214E
2159|      0680 0000 0014           ADDI.L   #$00000014,D0
2160|      1239 00FC D929           MOVE.B   ioFCD929,D1

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2146| 46DF          L0214E  MOVE     (A7)+,SR
2148| 0C81 0000 0063  CMPI.L   #$00000063,D1
214E| 6302          BLS.S    L0215A
2150| 4281          CLR.L    D1
2152| 4A39 00CC 0009  L0215A  TST.B     ioCC0009
2158| 6714          BEQ.S    L02176
215A| 0481 0000 0064  SUBI.L   #$00000064,D1
2160| 4481          NEG.L    D1
2162| E641          ASR.W    #3,D1
2164| D081          ADD.L    D1,D0
2166| E241          ASR.W    #1,D1
2168| D081          ADD.L    D1,D0
216A| E441          ASR.W    #2,D1
216C| 600A          BRA.S    L02180
216E|
2170| 0481 0000 0028  L02176  SUBI.L   #$00000028,D1
2174| 4481          NEG.L    D1
2176| E281          ASR.L    #1,D1
2178| D081          L02180  ADD.L    D1,D0
217A| 221F          MOVE.L   (A7)+,D1
217C| 4E75          RTS
217E|
217E| ; |-----|
217E| ; | ROUTINE : iAlarmAssign
217E| ; |-----|
217E|
217E| ; PROCEDURE AlarmAssign(VAR alarm: AlarmNumber; routine: LogicalAddress);
217E|
217E| iAlarmAssign: ; L02186
217E|
217E| 2F09          MOVE.L   A1,-(A7)
2180| 43F9 00CC 0026  LEA      ioCC0026,A1
2186| 303C 0014          MOVE.W   #20,D0
218A| 08F1 0000 0000  L02192  BSET     #0,$00(A1,D0.W)
2190| 6706          BEQ.S    L021A0
2192| 51C8 FFF6          DBF     D0,L02192
2196| 4240          CLR.W    D0
2198| 43F9 00CC 0090  L021A0  LEA      ioCC0090,A1
219E| E540          ASL.W    #2,D0
21A0| 2388 0000          MOVE.L   A0,$00(A1,D0.W)
21A4| E440          ASR.W    #2,D0
21A6| 225F          MOVE.L   (A7)+,A1
21A8| 4E75          RTS
21AA|
21AA| ; |-----|
21AA| ; | ROUTINE : iAlarmRtn
21AA| ; |-----|
21AA|
21AA| ; PROCEDURE AlarmReturn(alarm: AlarmNumber);
21AA|
21AA| iAlarmRtn: ; L021B2
21AA|
21AA| 4A40          TST.W     D0
21AC| 6D14          BLT.S    L021CA
21AE| 0C40 0014          CMPI.W   #$0014,D0
21B2| 6E0E          BGT.S    L021CA
21B4| 2F08          MOVE.L   A0,-(A7)
21B6| 41F9 00CC 0026  LEA      ioCC0026,A0
21BC| 4230 0000          CLR.B    $00(A0,D0.W)
21C0| 205F          MOVE.L   (A7)+,A0
21C2| 4E75          L021CA  RTS
21C4|
21C4| ; |-----|
21C4| ; | ROUTINE : iAlarmAbsolute
21C4| ; |-----|
21C4|
21C4| ; PROCEDURE AlarmAbsolute(alarm: AlarmNumber; time: MilliSeconds);
21C4|
21C4| iAlarmAbsolute: ; L021CC
21C4|
21C4| 4A40          TST.W     D0
21C6| 6D48          BLT.S    L02218
21C8| 0C40 0014          CMPI.W   #$0014,D0
21CC| 6E42          BGT.S    L02218
21CE| 48E7 C080          MOVEM.L  D0/D1/A0,-(A7)
21D2| 41F9 00CC 003C  LEA      ioCC003C,A0
21D8| E540          ASL.W    #2,D0
21DA| 2181 0000          MOVE.L   D1,$00(A0,D0.W)
21DE| 41F9 00CC 0026  LEA      ioCC0026,A0
21E4| E440          ASR.W    #2,D0
21E6| 08F0 0001 0000  BSET     #1,$00(A0,D0.W)
21EC| 2039 00CC 0022  MOVE.L   ioCC0022,D0
21F2| 90B9 00CC 001E  SUB.L    ioCC001E,D0
21F8| 92B9 00CC 001E  SUB.L    ioCC001E,D1
21FE| B280          CMP.L    D0,D1
2200| 6C0A          BGE.S    L02214

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2202| 23F9 00CC 001E 00CC          MOVE.L   D0/D1,-(A7)
220C| 4CDF 0103          L02214  MOVEM.L (A7)+,D0/D1/A0
2210| 4E75              L02218  RTS
2212|
2212| ; |||
2212| ; | ROUTINE : iAlarmRelative
2212| ; |||
2212|
2212| ; PROCEDURE AlarmRelative(alarm: AlarmNumber; delay: MilliSeconds);
2212|
2212| iAlarmRelative: ; L0221A
2212|
2212| 2F01              MOVE.L   D1,-(A7)
2214| D2B9 00CC 001E      ADD.L   ioCC001E,D1
221A| 4EBA FFA8          JSR     iAlarmAbsolute
221E| 221F              MOVE.L   (A7)+,D1
2220| 6E08              BGT.S    L02232
2222| 13FC 0084 00FC D971  MOVE.B   #$84,ioFCD971
222A| 4E75              L02232  RTS
222C|
222C| ; |||
222C| ; | ROUTINE : iAlarmOff
222C| ; |||
222C|
222C| ; PROCEDURE AlarmOff(alarm: AlarmNumber);
222C|
222C| iAlarmOff: ; L02234
222C|
222C| 4A40              TST.W     D0
222E| 6D16              BLT.S     L0224E
2230| 0C40 0014          CMPI.W   #$0014,D0
2234| 6E10              BGT.S     L0224E
2236| 2F08              MOVE.L   A0,-(A7)
2238| 41F9 00CC 0026      LEA      ioCC0026,A0
223E| 08B0 0001 0000      BCLR     #1,$00(A0,D0.W)
2244| 205F              MOVE.L   (A7)+,A0
2246| 4E75              L0224E  RTS
2248|
2248| ; |||
2248| ; | ROUTINE : iDateTime
2248| ; |||
2248|
2248| ; PROCEDURE DateTime(VAR date: DateArray);
2248|
2248| iDateTime: ; L02250
2248|
2248| 4EBA 0150          JSR      iSys_60_Call
224C| 4EBA 01F4          JSR      iSys_64_Call
2250| 4E75              RTS
2252|
2252| ; |||
2252| ; | ROUTINE : iSetDateTime
2252| ; |||
2252|
2252| ; PROCEDURE SetDateTime(date: DateArray);
2252|
2252| iSetDateTime: ; L0225A
2252|
2252| 48E7 C000          MOVEM.L   D0/D1,-(A7)
2256| 4EBA 0050          JSR      iSys_56_Call
225A| 4EBA 0192          JSR      iSys_62_Call
225E| 4CDF 0003          MOVEM.L   (A7)+,D0/D1
2262| 4E75              RTS
2264|
2264| ; |||
2264| ; | ROUTINE : iDateToTime
2264| ; |||
2264|
2264| ; PROCEDURE DateToTime(date: DateArray; VAR time: Seconds);
2264|
2264| iDateToTime: ; L0226C
2264|
2264| 48E7 7C00          MOVEM.L   D1-D5,-(A7)
2268| 0440 076D          SUBI.W   #$076D,D0
226C| 3A00              MOVE.W   D0,D5
226E| C0FC 016D          MULU     #$016D,D0
2272| E445              ASR.W     #2,D5
2274| D045              ADD.W     D5,D0
2276| D041              ADD.W     D1,D0
2278| 5340              SUBQ.W   #$1,D0
227A| C0FC 0018          MULU     #$0018,D0
227E| 48C2              EXT.L     D2
2280| D082              ADD.L     D2,D0
2282| 4EBA 0014          JSR      L022A0
2286| 48C3              EXT.L     D3
2288| D083              ADD.L     D3,D0

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228A| 4EBA 000C          JSR      L022A0
228E| 48C4              EXT.L    D4
2290| D084              ADD.L    D4,D0
2292| 4CDF 003E          MOVEM.L (A7)+,D1-D5
2296| 4E75              RTS
2298|
2298| E580              L022A0 ASL.L    #$2,D0
229A| 2200              MOVE.L   D0,D1
229C| E380              ASL.L    #$1,D0
229E| D081              ADD.L    D1,D0
22A0| 2200              MOVE.L   D0,D1
22A2| E580              ASL.L    #$2,D0
22A4| D081              ADD.L    D1,D0
22A6| 4E75              RTS
22A8|
22A8| ; |||
22A8| ; | ROUTINE : iSys_56_Call
22A8| ; |||
22A8|
22A8| iSys_56_Call: ; L022B0
22A8|
22A8| 48E7 3F00          MOVEM.L D2-D7,-(A7)
22AC| 3C3C 000A          MOVE.W   #10,D6
22B0| 2E3C 000F 000F     MOVE.L   #000F000F,D7
22B6| 0440 07BC          SUBI.W   #07BC,D0 ; $07BC = 1980
22BA| 0280 0000 000F     ANDI.L   #0000000F,D0
22C0| 48C1              EXT.L    D1
22C2| 82C6              DIVU     D6,D1
22C4| 3A01              MOVE.W   D1,D5
22C6| 48C5              EXT.L    D5
22C8| 8AC6              DIVU     D6,D5
22CA| CA87              AND.L    D7,D5
22CC| E988              LSL.L    #$4,D0
22CE| 8045              OR.W     D5,D0
22D0| 4845              SWAP     D5
22D2| E988              LSL.L    #$4,D0
22D4| 8045              OR.W     D5,D0
22D6| 4841              SWAP     D1
22D8| 48C2              EXT.L    D2
22DA| 84C6              DIVU     D6,D2
22DC| C487              AND.L    D7,D2
22DE| E989              LSL.L    #$4,D1
22E0| 8242              OR.W     D2,D1
22E2| 4842              SWAP     D2
22E4| E989              LSL.L    #$4,D1
22E6| 8242              OR.W     D2,D1
22E8| 48C3              EXT.L    D3
22EA| 86C6              DIVU     D6,D3
22EC| C687              AND.L    D7,D3
22EE| E989              LSL.L    #$4,D1
22F0| 8243              OR.W     D3,D1
22F2| 4843              SWAP     D3
22F4| E989              LSL.L    #$4,D1
22F6| 8243              OR.W     D3,D1
22F8| 48C4              EXT.L    D4
22FA| 88C6              DIVU     D6,D4
22FC| C887              AND.L    D7,D4
22FE| E989              LSL.L    #$4,D1
2300| 8244              OR.W     D4,D1
2302| 4844              SWAP     D4
2304| E989              LSL.L    #$4,D1
2306| 8244              OR.W     D4,D1
2308| E989              LSL.L    #$4,D1
230A| 4CDF 00FC          MOVEM.L (A7)+,D2-D7
230E| 4E75              RTS
2310|
2310| ; |||
2310| ; | ROUTINE : iTimeStamp
2310| ; |||
2310|
2310| ; FUNCTION TimeStamp: Seconds;
2310|
2310| iTimeStamp: ; L02318
2310|
2310| 2F01              MOVE.L   D1,-(A7)
2312| 4EBA 0086          JSR      iSys_60_Call
2316| 4EBA 01B8          JSR      iSys_66_Call
231A| 221F              MOVE.L   (A7)+,D1
231C| 4E75              RTS
231E|
231E| ; |||
231E| ; | ROUTINE : iSetTimeStamp
231E| ; |||
231E|
231E| ; PROCEDURE SetTimeStamp(time: Seconds);
231E|

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JSR      L022A0
EXT.L    D4
ADD.L    D4,D0
MOVEM.L  (A7)+,D1-D5
RTS

L022A0   ASL.L    #\$2,D0
         MOVE.L   D0,D1
         ASL.L    #\$1,D0
         ADD.L    D1,D0
         MOVE.L   D0,D1
         ASL.L    #\$2,D0
         ADD.L    D1,D0
         RTS

; |-----|
; | ROUTINE : iSys_56_Call |
; |-----|

iSys_56_Call: ; L022B0

         MOVEM.L  D2-D7,-(A7)
         MOVE.W   #10,D6
         MOVE.L   #\$000F000F,D7
         SUBI.W   #\$07BC,D0 ; \$07BC = 1980
         ANDI.L   #\$0000000F,D0
         EXT.L    D1
         DIVU     D6,D1
         MOVE.W   D1,D5
         EXT.L    D5
         DIVU     D6,D5
         AND.L    D7,D5
         LSL.L    #\$4,D0
         OR.W     D5,D0
         SWAP     D5
         LSL.L    #\$4,D0
         OR.W     D5,D0
         SWAP     D1
         EXT.L    D2
         DIVU     D6,D2
         AND.L    D7,D2
         LSL.L    #\$4,D1
         OR.W     D2,D1
         SWAP     D2
         LSL.L    #\$4,D1
         OR.W     D2,D1
         EXT.L    D3
         DIVU     D6,D3
         AND.L    D7,D3
         LSL.L    #\$4,D1
         OR.W     D3,D1
         SWAP     D3
         LSL.L    #\$4,D1
         OR.W     D3,D1
         EXT.L    D4
         DIVU     D6,D4
         AND.L    D7,D4
         LSL.L    #\$4,D1
         OR.W     D4,D1
         SWAP     D4
         LSL.L    #\$4,D1
         OR.W     D4,D1
         LSL.L    #\$4,D1
         MOVEM.L  (A7)+,D2-D7
         RTS

; |-----|
; | ROUTINE : iTimeStamp |
; |-----|

; FUNCTION TimeStamp: Seconds;

iTimeStamp: ; L02318

         MOVE.L   D1,-(A7)
         JSR      iSys_60_Call
         JSR      iSys_66_Call
         MOVE.L   (A7)+,D1
         RTS

; |-----|
; | ROUTINE : iSetTimeStamp |
; |-----|

; PROCEDURE SetTimeStamp(time: Seconds);

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231E|                                     iSetTimeStamp: ; L02326
231E|
231E| 48E7 C000                                MOVEM.L  D0/D1,-(A7)
2322| 4EBA 0064                                JSR      iSys_5E_Call
2326| 4EBA 00C6                                JSR      iSys_62_Call
232A| 4CDF 0003                                MOVEM.L  (A7)+,D0/D1
232E| 4E75                                     RTS
2330|
2330| ; |||
2330| ; | ROUTINE : iTimeToDate
2330| ; |||
2330|
2330| ; PROCEDURE TimeToDate(time: Seconds; VAR date: DateArray);
2330|
2330| iTimeToDate: ; L02338
2330|
2330| 2600                                MOVE.L   D0,D3
2332| EE88                                LSR.L   #$7,D0
2334| 80FC 02A3                            DIVU    #$02A3,D0
2338| 4840                                SWAP    D0
233A| 2400                                MOVE.L   D0,D2
233C| 4240                                CLR.W   D0
233E| 4840                                SWAP    D0
2340| 80FC 05B5                            DIVU    #$05B5,D0
2344| 2200                                MOVE.L   D0,D1
2346| E548                                LSL.W   #$2,D0
2348| 4841                                SWAP    D1
234A| 48C1                                EXT.L   D1
234C| 82FC 016D                            DIVU    #$016D,D1
2350| 0C41 0004                            CMPI.W  #$0004,D1
2354| 6608                                BNE.S   L02366
2356| 7200                                MOVEQ   #$00,D1
2358| 0681 0003 016D                        L02366 ADDI.L  #$0003016D,D1
235E| D041                                ADD.W   D1,D0
2360| 0640 076D                            ADDI.W  #$076D,D0
2364| 4841                                SWAP    D1
2366| 5241                                ADDQ.W  #$1,D1
2368| 48C2                                EXT.L   D2
236A| EF8A                                LSL.L   #$7,D2
236C| 0283 0000 007F                        ANDI.L  #$0000007F,D3
2372| D483                                ADD.L   D3,D2
2374| 84FC 0E10                            DIVU    #$0E10,D2
2378| 2602                                MOVE.L  D2,D3
237A| 4843                                SWAP    D3
237C| 48C3                                EXT.L   D3
237E| 86FC 003C                            DIVU    #$003C,D3
2382| 2803                                MOVE.L  D3,D4
2384| 4844                                SWAP    D4
2386| 4E75                                     RTS
2388|
2388| ; |||
2388| ; | ROUTINE : iSys_5E_Call
2388| ; |||
2388|
2388| iSys_5E_Call: ; L02390
2388|
2388| 48E7 3800                                MOVEM.L  D2-D4,-(A7)
238C| 4EBA FFA2                                JSR      iTimeToDate
2390| 4EBA FF16                                JSR      iSys_56_Call
2394| 4CDF 001C                                MOVEM.L  (A7)+,D2-D4
2398| 4E75                                     RTS
239A|
239A| ; |||
239A| ; | ROUTINE : iSys_60_Call
239A| ; |||
239A|
239A| iSys_60_Call: ; L023A2
239A|
239A| 4239 00CC 00E4                        CLR.B   ioCC00E4
23A0| 303C 0002                            MOVE.W  #2,D0
23A4| 4EBA E076                                JSR      L00424
23A8| 323C 4E20                            MOVE.W  #$4E20,D1
23AC| 40E7                                L023B4 MOVE    SR,-(A7)
23AE| 007C 0700                            ORI.W   #$0700,SR ; $0700 = % 0000 0111 0000 0000
23B2| 0839 0001 00FC DD9B                  BTST    #1,ioFCDD9B
23BA| 6704                                BEQ.S   L023C8
23BC| 4EBA E2A6                                JSR      L0066C
23C0| 46DF                                L023C8 MOVE    (A7)+,SR
23C2| 4A39 00CC 00E4                        TST.B   ioCC00E4
23C8| 6614                                BNE.S   L023E6
23CA| 51C9 FFE0                            DBF     D1,L023B4
23CE| 203C 0000 11C1                        MOVE.L  #$000011C1,D0
23D4| 223C 0000 00C8                        MOVE.L  #$000000C8,D1
23DA| 4EBA ED0A                                JSR      iBeep
23DE| 4280                                L023E6 CLR.L   D0
23E0| 3039 00CC 00E6                        MOVE.W  ioCC00E6,D0

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```
; | ROUTINE : iSys_62_Call
; |
```

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```

L024D2  MOVEM.L  (A7)+, D5-D7
        RTS

```

AB - Absolute	LB - Label	UD - Undefined	MC - Macro
RF - Ref	DF - Def	PR - Proc	FC - Func
A5 - A5 Global	32 - 32-bit Global		

```

EVTLEN  AB 0000000C| IALARMAB LB 000021C4| IALARMAS LB 0000217E
IALARMOF LB 0000222C| IALARMRE LB 00002212| IALARMRT LB 000021AA
IALTKEYE LB 00001B98| IALTKEYP LB 00001ACE| IALTSCORE LB 00000DAA
IBECP    LB 000010E6| IBUSYDEL LB 00000D28| IBUSYIMA LB 00000CCC
ICONTRAS LB 00000DDC| ICOPSSYN LB 000003AE| ICURSERI LB 00000C9A

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ICURSORD LB 00000B40 | ICURSORDH LB 00000A9A | ICURSORDI LB 000009A6
ICURSORDL LB 00000A0A | ICURSORDO LB 00000C7C | ICURSORDR LB 00000CB2
ICURSORDS LB 00000AE6 | ICURSORDT LB 00000A7C | IDATETIM LB 00002248
IDATETOT LB 00002264 | IDIMCONT LB 00000EF8 | IDISKDRI LB 00000396
IDISKSYN LB 0000039E | IDRIVERI LB 00000114 | IFADEDEL LB 00000F10
IFRAMECO LB 00000D92 | IKEYBDEV LB 00001B7A | IKEYBDPE LB 00001AAE
IKEYBOAR LB 00001900 | IKEYISDO LB 00001A6A | IKEYMAP LB 00001A94
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ASSEMBLY COMPLETE.