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0000 1: ;-----
0000 2: ; Copyright 2010 Integrated Logic Systems
0000 3: ; Source Code is Copyright Stephen J. Car
0000 4: ;
0000 5: ;
0000 6: ; Please do not share this source!
0000 7: ;-----
0000 8: ; Cartdump.com
0000 9: ;
0000 10: ; Copy OSS cartridge banks to
0000 11: ; D1:CARTIMAGE.CBx where x is bank
0000 12: ; ~~~~~
0000 13: ;-----
0000 14: ; Notes: o This source code MAY NOT be placed for download
0000 15: ; o "mea" is a macro that loads the address of the
0000 16: ; into the pointer specified by the second field.
0000 17: ;-----
0000 18: ; Assembler: MADMAC (tm) ST Cross Assembler (Atari Corp)
0000 19: ; XASM st and IBM VERSIONS
0000 20: ;-----
0000 21: ;=====
0000 22: com_file_name: .macro
0000 23: ; dc.b 13,"filename.ext",$9b
0000 24: ; dc.b 12,"Cartdump.com",$9b
0000 25: ; .endm
0000 26:
0000 27: ;
0000 28: ;~~~~~
0000 29: ; File revision history. Version Number in hex
0000 30: ;
0000 31: file_ver: equ $11
0000 32: ;~~~~~
0000 33: ; the Month in dec for the first time this revision
0000 34: ;was compiled
0000 35: ;
0000 36: c_month: equ 8
0000 37: ;~~~~~
0000 38: ; the day in dec for the first time this revision
0000 39: ;was compiled
0000 40: c_day: equ 26
0000 41: ;~~~~~
0000 42: ; the year in dec for the first time this revision
0000 43: ;was compiled
0000 44: c_year: equ 2012
0000 45: ;~~~~~
0000 46: ; Type of compiler used in program
0000 47: ;
0000 48: ; 0 = unknown Compiler
0000 49: ; 1 = xasm
0000 50: ; 2 = mac_65
0000 51: ; 3 = basic
0000 52: ; 4 = compiled basic xl
0000 53: ; 5 = C65

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0000 54: ; 6 = Action
0000 55: ;
0000 56: ; We can add more as time goes on!
0000 57: ;
0000 58: ;
0000 59: xasm:          equ 1
0000 60: mac_65:         equ 2
0000 61: basic:          equ 3
0000 62: basicxl:        equ 4
0000 63: c65:           equ 5
0000 64: action:         equ 6
0000 65:
0000 66: file_compiler:   equ xasm
0000 67: ;~~~~~
0000 68: ; is this relocatable code ?
0000 69: ; anyother value other than 1 or 2 would be unknown
0000 70: r..yes:          equ 1
0000 71: r..no:           equ 2
0000 72: ;
0000 73: ;~~~~~
0000 74: ; Gotta define if it can be relocated
0000 75: l_relocatable:   equ r..no
0000 76: ;
0000 77: ;
0000 78: ;~~~~~
0000 79: ; Gotta define if it can be relocated
0000 80: r..crl:          equ $7d
0000 81: r..crlf:         equ $9b
0000 82: r..space:        equ $20
0000 83:
0000 84: l_frstscreenbyte: equ r..space
0000 85: ;~~~~~
0000 86: ; The language the output file is in.
0000 87: ;
0000 88: ;
0000 89: ; 0 = Undefined
0000 90: ; 1 = English
0000 91: ; 2 = German
0000 92: ;
0000 93: r..language:     equ 1
0000 94: ;~~~~~
0000 95: ;ICCOM = $0342
0000 96: ;ICBAL = $0344
0000 97: ;ICBLL = $0348
0000 98: ;ICAX1 = $034A
0000 99: ;CIOV = $E456
0000 100: ;PORTB = $D301
0000 101: ;DMACTL = $D400
0000 102: ;SDMCTL = $022F
0000 103: ;GINTLK = $03FA
0000 104: TRIG3 = $D013
0000 105:
0000 106:
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0000 107:          .include equates
0000 108:          .include globals
0000 109:          .include macros
0000 110:
2500 111:          .org $2500
2500 112:
2500 113: win_start:
2500 114: header_info:
2500 115:          .include header
27a7 4c0030 116:          jmp start
27aa 117: ;
2f00 118:          .org $2F00
2f00 119: ;
2f00 120: ;~~~~~
2f00 121: ; The first 64 bytes are dumped to
2f00 122: ; the CARIMAGE.MAP file
2f00 123: ;
2f00 124: RAMROM:
2f00 125:          ds.b 16          ;0=
2f10 126: BANKNO:
2f10 127:          ds.b 16          ;by
2f20 128: BARRAY:
2f20 129:          ds.b 16          ;0=
2f30 130: TRIG3A:
2f30 131:          ds.b 16          ;tr
2f40 132:
2f40 133: CURBNK:
2f40 134:          ds.b 1          ;Ba
2f41 135: TESTBK:
2f41 136:          ds.b 1          ;Ba
2f42 137: CBSAVE:
2f42 138:          ds.b 1          ;En
2f43 139: PBSAVE:
2f43 140:          ds.b 1          ;En
2f44 141: ;
3000 142:          .org $3000
3000 143: START:
3000 a960 144:          lda #$60          ;l
3002 8d0030 145:          sta START          ;t
3005 a200 146:          ldx #0
3007 8a 147:          txa
3008 148: ZLOOP:
3008 9d002f 149:          sta $2F00,X        ;Cl
300b e8 150:          inx
300c d0fa 151:          bne ZLOOP
300e 152: ;
300e ad01d3 153:          lda PORTB
3011 8d432f 154:          sta PBSAVE
3014 ca 155:          dex
3015 8e01d3 156:          stx PORTB
3018 a008 157:          ldy #$08
301a adfa03 158:          lda GINTLK
301d f003 159:          beq HAVBNK

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301f acffaf 160:      ldy  $AFFF
3022      161: HAVBNK:
3022 8c422f 162:      sty  CBSAVE
3025      163: ;
3025 78 164:      sei           ;Ki
3026 a20f 165:      ldx  #15           ;pl
3028      166: LOOP0:
3028 9d00d5 167:      sta  $D500,X      ;Fi
302b ad13d0 168:      lda  TRIG3        ;if
302e 9d302f 169:      sta  TRIG3A,X
3031 adffaf 170:      lda  $AFFF        ;Ge
3034 9d102f 171:      sta  BANKNO,X
3037 eeffaf 172:      inc  $AFFF        ;Ch
303a cdffaf 173:      cmp  $AFFF
303d f009 174:      beq  ISROM        ;No
303f 8dffaf 175:      sta  $AFFF
3042 de002f 176:      dec  RAMROM,X     ;Se
3045 de202f 177:      dec  BARRAY,X    ;Sh
3048      178: ISROM:
3048 ca 179:      dex
3049 10dd 180:      bpl  LOOP0
304b      181: ;
304b 9900d5 182:      sta  $D500,Y      ;Ca
304e 58 183:      cli           ;vb
304f      184: ;
304f 8e402f 185:      stx  CURBNK      ;St
3052 a0ff 186:      ldy  #$FF
3054      187: LOOP1:
3054 c8 188:      iny
3055 c010 189:      cpy  #16         ;Al
3057 b01d 190:      bcs  NEXTBASE    ;Ye
3059      191:
3059 b9202f 192:      lda  BARRAY,Y    ;Un
305c 30f6 193:      bmi  LOOP1      ;No
305e      194:
305e 98 195:      tya
305f aa 196:      tax
3060      197:
3060      198: LOOP2:
3060 e8 199:      inx           ;Te
3061 e010 200:      cpx  #16         ;ba
3063 b0ef 201:      bcs  LOOP1      ;Al
3065      202:
3065 bd102f 203:      lda  BANKNO,X    ;Wa
3068 c910 204:      cmp  #16         ;ba
306a b005 205:      bcs  FAIL        ;No
306c      206:
306c 59102f 207:      eor  BANKNO,Y    ;Sa
306f d0ef 208:      bne  LOOP2      ;No
3071      209:
3071      210: FAIL:
3071 de202f 211:      dec  BARRAY,X    ;Ye
3074 30ea 212:      bmi  LOOP2      ;Go

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3076      213:
3076      214: NEXTBASE:
3076 ee402f 215:      inc  CURBNK      ;If
3079 ae402f 216:      ldx  CURBNK      ;no
307c e00f   217:      cpx  #15          ;wi
307e b02b   218:      bcs  MAPWRT      ;So
3080      219: ;
3080 bd202f 220:      lda  BARRAY,X    ;Ch
3083 30f1   221:      bmi  NEXTBASE    ;No
3085      222:
3085 9d00d5 223:      sta  $D500,X     ;En
3088 a000   224:      ldy  #0          ;Co
308a a9a0   225:      lda  #$A0
308c 8d9630 226:      sta  CLOOP+2
308f a960   227:      lda  #$60
3091 8d9930 228:      sta  CLOOP+5
3094      229: CLOOP:
3094 b900a0 230:      lda  $A000,Y
3097 990060 231:      sta  $6000,Y
309a c8     232:      iny
309b d0f7   233:      bne  CLOOP
309d ee9630 234:      inc  CLOOP+2
30a0 ee9930 235:      inc  CLOOP+5
30a3 10ef   236:      bpl  CLOOP
30a5 20dd30 237:      jsr  WRITE      ;Wr
30a8 4c7630 238:      jmp  NEXTBASE
30ab      239:
30ab      240: MAPWRT:
30ab ae422f 241:      ldx  CBSAVE
30ae 9d00d5 242:      sta  $D500,X
30b1 ad432f 243:      lda  PBSAVE
30b4 8d01d3 244:      sta  PORTB
30b7 a210   245:      ldx  #$10
30b9 a965   246:      lda  # low MSPEC
30bb 9d4403 247:      sta  ICBAL,X
30be a931   248:      lda  # High MSPEC
30c0 9d4503 249:      sta  ICBAL+1,X
30c3 a903   250:      lda  #3
30c5 202331 251:      jsr  GOCIO
30c8 3057   252:      bmi  CLOSE
30ca      253:
30ca a900   254:      lda  # low RAMROM
30cc 9d4403 255:      sta  ICBAL,X
30cf a92f   256:      lda  # High RAMROM
30d1 9d4503 257:      sta  ICBAL+1,X
30d4 a930   258:      lda  #48
30d6 9d4803 259:      sta  ICBL,X
30d9 a900   260:      lda  #0
30db f03c   261:      beq  BPUT
30dd      262:
30dd      263: WRITE:
30dd 8a     264:      txa
30de 18     265:      clc

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30df 6930 266:      adc  #'0'
30e1 c93a 267:      cmp  #'9'+1
30e3 9002 268:      bcc  ISHEX
30e5 6906 269:      adc  #6
30e7      270: ISHEX:
30e7 8d6331 271:      sta  BANKID
30ea a210 272:      ldx  #$10
30ec 202131 273:      jsr  CLOSE
30ef a954 274:      lda  # low FSPEC
30f1 9d4403 275:      sta  ICBAL,X
30f4 a931 276:      lda  # High FSPEC
30f6 9d4503 277:      sta  ICBAL+1,X
30f9 a908 278:      lda  #8
30fb 9d4a03 279:      sta  ICAX1,X
30fe a900 280:      lda  #0
3100 9d4b03 281:      sta  ICAX1+1,X
3103 a903 282:      lda  #3
3105 202331 283:      jsr  GOCIO
3108 3017 284:      bmi  CLOSE
310a a900 285:      lda  # low $6000
310c 9d4403 286:      sta  ICBAL,X      ;ad
310f 9d4803 287:      sta  ICBLL,X      ;le
3112 a960 288:      lda  # High $6000
3114 9d4503 289:      sta  ICBAL+1,X      ;ad
3117 a920 290:      lda  # High $2000
3119      291:
3119      292: BPUT:
3119 9d4903 293:      sta  ICBLL+1,X      ;le
311c a90b 294:      lda  #11      ;bp
311e 202331 295:      jsr  GOCIO
3121      296: CLOSE:
3121 a90c 297:      lda  #12
3123      298: GOCIO:
3123 9d4203 299:      sta  ICCOM,X
3126 4c56e4 300:      jmp  CIOV
3129      301: ;
3129      302: ; Copy cartridge bank to $4000
3129      303: ;
3129      304: BCOPY:
3129 78 305:      sei
312a 9d00d5 306:      sta  $D500,X
312d a9a0 307:      lda  # High $A000
312f 8d3d31 308:      sta  LOOP4+2
3132 a940 309:      lda  # High $4000
3134 8d4031 310:      sta  LOOP4+5
3137 a220 311:      ldx  #32
3139 a000 312:      ldy  #0
313b      313: LOOP4:
313b b900a0 314:      lda  $A000,Y
313e 990040 315:      sta  $4000,Y
3141 c8 316:      iny
3142 d0f7 317:      bne  LOOP4
3144 ee3d31 318:      inc  LOOP4+2

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3147 ee4031 319:          inc  LOOP4+5
314a ca    320:          dex
314b d0ee  321:          bne  LOOP4
314d ae422f 322:          ldx  CBSAVE
3150 9d00d5 323:          sta  $D500,X
3153 60    324:          rts
3154      325: ;
3154 44313a 326: FSPEC:      dc.b  "D1:>CARIMAGE.CB"
3163 309b  327: BANKID:    dc.b  "0",$9b
3165 44313a 328: MSPEC:      dc.b  "D1:>CARIMAGE.MAP",$9b
3176      329:
3176      330: win_end:  ds.b  0

```

End assembly: no errors