

ISIS-II PL/M-86 V2.0 COMPILATION OF MODULE ERASE
 OBJECT MODULE PLACED IN ERA.03J
 COMPILER INVOKED BY: :F0: ERA.PLM XREF OPTIMIZE(3) DEBUG

```
$compact
$title ("ERA: Utility to Erase File for MP/M & CCP/M")
erase:
do:
```

```
/*
  Revised:
    19 Jan 80 by Thomas Rolander (MP/M 1.1)
    19 July 81 by Doug Huskey (MP/M II )
    8 Aug 81 by Danny Horovitz (MP/M-86 )
    31 Jan 83 by Bill Fitler (CCP/M-86 )
*/
/* ERA checks if files are open by other users */
```

```
$include (:f2:copyrt.lit)
```

```
/*
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  Pacific Grove, CA 93950
*/
```

```
$include (:f2:vaxcmd.lit)
```

```
**** VAX commands for generation - read the name of this program
for PROGNAME below.
```

```
$ util := PROGNAME
$ ccpmsetup          ! set up environment
$ assign "f$directory()" fl:          ! use local dir for temp files
$ plm86 "util".plm xref "pl" optimize(3) debug
$ link86 f2:scd.obj, "util".obj to "util".lnk
$ loc86 "util".lnk od(sm(code,dats,data,stack,const)) -
    ad(sm(code(0),dats(10000h))) ss(stack(+32)) to "util".
$ h86 "util"
```

```
**** Then, on a micro:
A>vax progname.h86 $fans
A>gencmd progname data[b1000]
```

```
**** Notes: Stack is increased for interrupts. Const(ants) are last
to force hex generation.
```

```
****/
```

```
$include (:f2:vermpm.lit)
```

```
/* This utility requires MP/M or Concurrent function calls */
```

```
***** commented out for CCP/M-86 :
```

CCP/M-86 2.0 V.4
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```

= declare Ver$OS literally "11h",
=   Ver$Needs$OS literally "'Requires MP/M-86'";
=   *****/
=
2 1 = declare Ver$OS literally "14h",
=   Ver$Needs$OS literally "'Requires Concurrent CP/M-86'";
=
=
3 1 = declare Ver$Mask literally "0fdh"; /* mask out ls_network bit */
=
4 1 = declare Ver$BDOS literally "30h"; /* minimal BDOS version reqd */
=
=
5 1 declare
    true   literally "1",
    false  literally "0",
    forever literally "while true",
    lit    literally "literally",
    proc   literally "procedure",
    dcl    literally "declare",
    addr   literally "address",
    cr     literally "13",
    lf     literally "10",
    ctrlc  literally "3",
    ctrlx  literally "18h",
    bksp   literally "8";

    $include (:f2:proces.lit)
=
= /*
=   Proces Literals MP/M-8086 II
= */
=
6 1 = declare pnamslz literally "8";
=
7 1 = declare pd$hdr literally "structure
=   (link word,thread word,stat byte,prior byte,flag word,
=   name (8) byte,uda word,dsk byte,user byte,ldsk byte,luser byte,
=   mem word";
=
8 1 = declare pd$structure literally "pd$hdr,
=   dvract word,wait word,org byte,net byte,parent word,
=   cns byte,abort byte,conmode word,1st byte,sf3 byte,sf4 byte,sf5 byte,
=   reservd (4) byte,pret word,scratch word";
=
9 1 = declare p$run      lit "00",
=   p$poll              lit "01",
=   p$delay              lit "02",
=   p$swap               lit "03",
=   p$term               lit "04",
=   p$sleep              lit "05",
=   p$dq                 lit "06",
=   p$mq                 lit "07",
=   p$flagwait           lit "08",
=   p$ciowait            lit "09";
=
10 1 = declare p$sys      lit "00001h",

```

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```

=          pf$keep          lit "00002h",
=          pf$kernal        lit "00004h",
=          pf$pure          lit "00008h",
=          pf$table         lit "00010h",
=          pf$resource      lit "00020h",
=          pf$raw           lit "00040h",
=          pf$ctlc          lit "00080h",
=          pf$active        lit "00100h",
=          pf$tempkeep      lit "00200h",
=          pf$ctld          lit "00400h",
=          pf$childabort    lit "00800h",
=          pf$noctls        lit "01000h";

11 1 = declare pcm$ll        lit "00001h",
=          pcm$ctls         lit "00002h",
=          pcm$rout         lit "00004h",
=          pcm$ctlc         lit "00008h",
=          pcm$ctlo         lit "00080h",
=          pcm$rsx          lit "00300h";

=          $include (:f2:uda.lit)
=
=          /* MP/M-86 II User Data Area format - August 8, 1981 */
=
12 1 = declare uda$structure lit "structure (
=          dparam          word,
=          dma$ofst         word,
=          dma$seg          word,
=          func             byte,
=          searchl          byte,
=          searcha          word,
=          searchabase      word,
=          dcnt             word,
=          dblk             word,
=          error$mode       byte,
=          mult$cnt         byte,
=          df$password      (8) byte,
=          pd$cnt           byte)";
=

13 1 dcl stack$siz lit "16";
14 1 dcl int3 lit "0000Ch";
15 1 dcl plmstack (stack$siz) word public initial(
=          int3,int3,int3,int3, int3,int3,int3,int3,
=          int3,int3,int3,int3, int3,int3,int3,int3);
16 1 dcl stack$size word public data(stack$siz + stack$siz);

=          /*****
=          *
=          *          B D O S   INTERFACE
=          *
=          *          *****/

17 1 monl:
=          procedure (func,info) external;

```

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```

18 2      declare func byte;
19 2      declare info address;
20 2      end mon1;

21 1      mon2:
22 2          procedure (func,info) byte external;
23 2              declare func byte;
24 2              declare info address;
25 2          end mon2;

26 1      mon3:
27 2          procedure (func,info) address external;
28 2              declare func byte;
29 2              declare info address;
30 2          end mon3;

31 1      mon4:
32 2          procedure (func,info) pointer external;
33 2              declare func byte;
34 2              declare info address;
35 2          end mon4;

```

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```

33 1      declare cmdrv      byte      external; /* command drive */
34 1      declare fcb (1)    byte      external; /* 1st default fcb */
35 1      declare fcb16 (1)  byte      external; /* 2nd default fcb */
36 1      declare pass0      address   external; /* 1st password ptr */
37 1      declare len0       byte      external; /* 1st passwd length */
38 1      declare pass1      address   external; /* 2nd password ptr */
39 1      declare len1       byte      external; /* 2nd passwd length */
40 1      declare tbuff (1)  byte      external; /* default dma buffer */

```

```

/*****
*
*      B D O S   Externals
*
*****/

```

```

41 1      read$console:
42 2          procedure byte;
43 2              return mon2 (1,0);
44 2          end read$console;

45 1      printchar:
46 2          procedure(char);
47 2              declare char byte;
48 2              call mon1(2,char);
49 2          end printchar;

50 1      conin:
51 2          procedure byte;
52 2              return mon2(6,0fdh);
53 2          end conin;

```

```

51 1      check$con$stat:
52 2          procedure byte;
53 2              return mon2(11,0);
54 2          end check$con$stat;

54 1      print$buf:
55 2          procedure (buffer$address);
56 2              declare buffer$address address;
57 2              call mon1(9,buffer$address);
58 2          end print$buf;

58 1      version: procedure address;
59 2          /* Returns current cp/m version # */
60 2          return mon3(12,0);
61 2          end version;

61 1      setdma: procedure(dma);
62 2          declare dma address;
63 2          call mon1(26,dma);
64 2          end setdma;

65 1      search:
66 2          procedure (fcb$address) byte;
67 2              declare fcb$address address;
68 2              return mon2(17,fcb$address);
69 2          end search;

69 1      searchn:
70 2          procedure byte;
71 2              return mon2(18,0);
72 2          end searchn;

72 1      delete$file:
73 2          procedure (fcb$address) address;
74 2              declare fcb$address address;
75 2              return mon3(19,fcb$address);
76 2          end delete$file;

76 1      get$user$code:
77 2          procedure byte;
78 2              return mon2(32,0ffh);
79 2          end get$user$code;

79 1      /* Off => return BDOS errors */
80 2      return$errors:
81 2          procedure;
82 2              call mon1(45,0ffh);
83 2          end return$errors;

82 1      terminate:
83 2          procedure;
84 2              call mon1(143,0);
85 2          end terminate;

85 1      declare
86 2          parse$fn structure (
87 2              buff$adr address,

```

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```

      fcb$adr  address);
86  1      declare (saveax,savecx) word external; /* reg return vals, set in mon1 */
87  1      parse: procedure;
88  2          declare (retcode,errcode) word;
89  2          call mon1(152,.parse$fn);
90  2          retcode = saveax;
91  2          errcode = savecx;
92  2          if retcode = 0ffffh then          /* parse returned an error*/
93  2              do;
94  3                  call print$buf(.'Invalid Filespec$');
95  3                  if errcode = 23 then call print$buf(.' (drive)$');
97  3                  else if errcode = 24 then call print$buf(.' (filename)$');
99  3                  else if errcode = 25 then call print$buf(.' (filetype)$');
101  3                  else if errcode = 38 then call print$buf(.' (password)$');
                      call print$buf(.' ',13,10,'$'); call terminate;
105  3              end;
106  2          end parse;

107  1      declare
          pd$pointer pointer,
          pd          based pd$pointer pd$structure;
108  1      declare
          uda$pointer pointer,
          uda$ptr structure (
                      offset word,
                      segment word) at (2uda$pointer),
          uda based uda$pointer uda$structure;

109  1      get$uda: procedure;

110  2          pd$pointer = mon4(156,0);
111  2          uda$ptr.segment = pd.uda;
112  2          uda$ptr.offset = 0;
113  2          end get$uda;

      /*****
      *
      *      GLOBAL VARIABLES
      *
      *****/

114  1      declare xfcb      byte initial(0);
115  1      declare successful lit "OFFh";

      /*****
      *
      *      SUBROUTINES
      *
      *****/

      /* upper case character from console */
116  1      crlf:  proc;
117  2          call printchar(cr);
118  2          call printchar(lf);

```

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```

119 2      end crlf;
      /* ----- */

      /* fill string @ s for c bytes with f */
120 1  fill:  proc(s,f,c);
121 2      decl s addr,
      (f,c) byte,
      a based s byte;

122 2      do while (c:=c-1)<>255;
123 3          a = f;
124 3          s = s+1;
125 3      end;
126 2      end fill;
      /* ----- */

      /* error message routine */
127 1  error:  proc(code);
128 2      declare
      code byte;

129 2      call printchar(' ');
130 2      if code=1 then
131 2          call print$buf(.(cr,lf,"Disk I/O Error.$"));
132 2      if code=2 then
133 2          call print$buf(.(cr,lf,"Drive $"));
134 2      if code = 3 or code = 2 then
135 2          call print$buf(.( "Read Only$"));
136 2      if code = 4 then
137 2          call print$buf(.(cr,lf,"Invalid Filespec (drive).$"));
138 2      if code = 5 then
139 2          call print$buf(.( "Currently Opened$"));
140 2      if code = 7 then
141 2          call print$buf(.( "Password Error$"));
142 2      if code < 3 or code = 4 then
143 2          call terminate;
144 2      end error;
      /* ----- */

      /* print file name */
145 1  print$file: procedure(fcbp);
146 2      declare k byte;
147 2      declare typ lit '9';      /* file type */
148 2      declare fnam lit '11';    /* file type */
149 2      declare
      fcbp  addr,
      fcbv  based fcbp (32) byte;

150 2      do k = 1 to fnam;
151 3          if k = typ then
152 3              call printchar('.');
153 3              call printchar(fcbv(k) and 7fh);
154 3          end;
155 2      end print$file;

```

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```

/* ----- */

/* try to delete fcb at fcb$address
   return error code if unsuccessful */
156 1 delete:
157 2   procedure(fcb$address) byte;
      declare
        fcb$address address,
        fcbv based fcb$address (32) byte,
        error$code address,
        code byte;

158 2   if xfcb then
159 2     fcbv(5) = fcbv(5) or 80h;
160 2   call setdma(.fcb16);
161 2   fcbv(0) = fcb(0);
162 2   error$code = delete$file(fcb$address);
163 2   fcbv(5) = fcbv(5) and 7fh;
164 2   if low(error$code) = 0FFh then do;
166 3     code = high(error$code);
167 3     if (code=1) or (code=2) or (code=4) then
168 3       call error(code);
169 3     return code;
170 3   end;
171 2   return successful;
172 2   end delete;

/* ----- */

/* upper case character from console */
173 1 ucase: proc byte;
174 2   dcl c byte;

175 2   if (c:=conin) >= 'a' then
176 2     if c < '(' then
177 2       return(c-20h);
178 2   return c;
179 2   end ucase;

/* ----- */

/* get password and place at fcb + 16 */
180 1 getpasswd: proc;
181 2   dcl (i,c) byte;

182 2   call crlf;
183 2   call print$buf(."Password ? ", "%");
184 2   retry:
      call fill(.fcb16, ' ', 8);
185 2   do i = 0 to 7;
186 3   nxtchr:
      if (c:=ucase) >= ' ' then
187 3     fcb16(i)=c;
188 3   if c = cr then do;
189 4     call crlf;
190 4     goto exit;
191 4   end;

```

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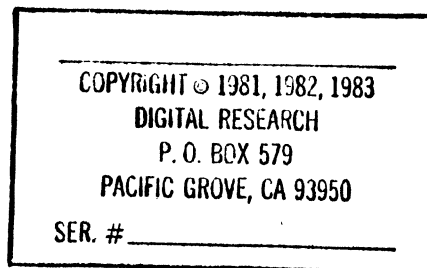
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```

192 4      end;
193 3      if c = ctrlx then
194 3          goto retry;
195 3      if c = bksp then do;
197 4          if i<1 then
198 4              goto retry;
199 4          else do;
200 5              fcb16(i:=i-1)=' ';
201 5              goto nxtchr;
202 5          end;
203 4      end;
204 3      if c = 3 then
205 3          call terminate;
206 3      end;
207 2  exit;
      c = check$con$stat;
208 2  end getpasswd;
/* ----- */

```



```

209 1      /* try deleting files one at a time */
      single$file:
      procedure;
210 2      declare (code,dcnt,sav$search1) byte;
211 2      declare (fcba,sav$dcnt) addr;

212 2      file$err: procedure;
213 3          call crlf;
214 3          call print$buf(,("Not erased: $"));
215 3          call print$file(fcba);
216 3          call error(code);
217 3          end file$err;

218 2      call setdma(.tbuf);
219 2      dcnt = search(.fcb);
220 2      do while dcnt <> 0fff;
221 3          fcba = shl(dcnt,5) + .tbuf;
222 3          sav$dcnt = uda.dcnt;
223 3          sav$search1 = uda.search1;
224 3          if (code:=delete(fcba)) = 7 then do;
226 4              call file$err;
227 4              call getpasswd;
228 4              code = delete(fcba);
229 4          end;
230 3          if code <> successful then
231 3              call file$err;
232 3          call setdma(.tbuf);
      /* restore dcnt and search length of 11 */
      uda.dcnt = sav$dcnt;
233 3          uda.search1 = sav$search1;
234 3          dcnt = searchn;
235 3          end;
236 3      end single$file;
237 2

```

```

/*****
*
*      M A I N   P R O G R A M
*
*****/

```

```

*
*****/

```

```

238 1  declare (i,response,user,code) byte;
239 1  declare ver address;
240 1  declare lastidseg$byte byte
      initial (0);

241 1  plm$start: procedure public;

242 2      ver = version;
243 2      if low(ver) < Ver$BDOS or (high(ver) and Ver$Mask) = 0 then do;
245 3          call print$buf (.(cr,lf,Ver$Needs$OS,""));
246 3          call mon1(0,0);
247 3      end;

248 2      parse$fn.buff$adr = .tbuff(1);
249 2      parse$fn.fcb$adr = .fcb;
250 2      user = get$user$code;
251 2      call getuda;          /* get uda address */
252 2      call return$errors;
253 2      if fcb(17) <> " " then
254 2          if fcb(17) = "X" then
255 2              xfcf = true;
256 2          else do;
257 3              call print$buf (.(
                  "Invalid Command Option.$");
258 3              call terminate;
259 3          end;

260 2      i = 0;
261 2      do while fcb(i:=i+1) = "?";
262 3          ;
263 3      end;
264 2      if i > 11 then
265 2          if not xfcf then
266 2              do;
267 3                  call print$buf (.(
                      "Confirm delete all user files (Y/N)?","");
268 3                  response = read$console;
269 3                  if not ((response = "y") or
                      (response = "Y"))
                      then call terminate;
271 3                  end;
272 2      call parse;
273 2      if (code:=delete(.fcb)) <> successful then do;
275 3          if code = 0 then
276 3              call print$buf (.(cr,lf,
                  "File Not Found.",");
277 3          else if code < 3 or code = 4 then
278 3              call error(code);          /* total errors */
279 3          else
280 3              call single$file;          /* single file error */
281 2          end;
282 2      call terminate;
      end plm$start;

```

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283 1 end erase;

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CROSS-REFERENCE LISTING

DEFN	ADDR	SIZE	NAME, ATTRIBUTES, AND REFERENCES
121	0000H	1	A. BYTE BASED(S) 123
107	0021H	1	ABORT. BYTE MEMBER(PD)
5			ADDR LITERALLY 121 149 211
5			BKSP LITERALLY 195
85	0000H	2	BUFFADR. WORD MEMBER(PARSEFN) 248
54	0004H	2	BUFFERADDRESS. WORD PARAMETER AUTOMATIC 55 56
181	003DH	1	C. BYTE 186 187 188 193 195 204 207
120	0004H	1	C. BYTE PARAMETER AUTOMATIC 121 122
174	0038H	1	C. BYTE 175 176 177 178
44	0004H	1	CHAR BYTE PARAMETER AUTOMATIC 45 46
51	0033H	15	CHECKCONSTAT PROCEDURE BYTE STACK=0008H 207
33	0000H	1	CMDRV. BYTE EXTERNAL(4)
107	0020H	1	CNS. BYTE MEMBER(PD)
157	003AH	1	CODE BYTE 166 167 168 169
238	0044H	1	CODE BYTE 273 275 277 278
127	0004H	1	CODE BYTE PARAMETER AUTOMATIC 128 130 132 134 136 138 140 142
210	003EH	1	CODE BYTE 216 224 228 230
48	0024H	15	CONIN. PROCEDURE BYTE STACK=0008H 175
107	0022H	2	CONMODE. WORD MEMBER(PD)
5			CR LITERALLY 117 131 133 137 188 245 276
116	015AH	17	CRLF PROCEDURE STACK=000EH 182 190 213
5			CTRLC. LITERALLY
5			CTRLX. LITERALLY 193
108	000EH	2	DBLK WORD MEMBER(UDA)
5			DCL. LITERALLY
210	003FH	1	DCNT BYTE 219 220 221 235
108	000CH	2	DCNT WORD MEMBER(UDA) 222 233
156	0233H	91	DELETE PROCEDURE BYTE STACK=0016H 224 228 273
72	0090H	16	DELETEFILE PROCEDURE WORD STACK=000AH 162
108	0012H	8	DFPASSWORD BYTE ARRAY(8) MEMBER(UDA)
61	0004H	2	DMA. WORD PARAMETER AUTOMATIC 62 63
108	0002H	2	DMAOFST. WORD MEMBER(UDA)
108	0004H	2	DMASEG WORD MEMBER(UDA)
108	0000H	2	DPARAM WORD MEMBER(UDA)
107	0012H	1	DSK. BYTE MEMBER(PD)
107	0018H	2	DVRACT WORD MEMBER(PD)
1	0002H		ERASE. PROCEDURE STACK=0000H
88	0026H	2	ERRCODE. WORD 91 95 97 99 101
127	0188H	112	ERROR. PROCEDURE STACK=0010H 168 216 278
157	0030H	2	ERRORCODE. WORD 162 164 166
108	0010H	1	ERRORMODE. BYTE MEMBER(UDA)
207	032FH		EXIT LABEL 191
120	0006H	1	F. BYTE PARAMETER AUTOMATIC 121 123
5			FALSE. LITERALLY
34	0000H	1	FCB. BYTE ARRAY(1) EXTERNAL(5) 161 219 249 253 254 261 273
35	0000H	1	FCB16. BYTE ARRAY(1) EXTERNAL(6) 160 184 187 200
211	0032H	2	FCBA WORD 215 221 224 228
156	0004H	2	FCBADDRESS WORD PARAMETER AUTOMATIC 157 159 161 162 163

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SER. #

11		PCMCTLG.	LITERALLY	
11		PCMCTLO.	LITERALLY	
11		PCMCTLS.	LITERALLY	
11		PCMR0UT.	LITERALLY	
11		PCMRSX.	LITERALLY	
107	0000H	48 PD	STRUCTURE BASED(PDPOINTER)	111
108	001AH	1 PDCNT.	BYTE MEMBER(UDA)	
7		PDHOR.	LITERALLY	107
107	0028H	4 PDPOINTER.	POINTER	107 110 111
8		PDSTRUCTURE.	LITERALLY	107
10		PFACTIVE.	LITERALLY	
10		PFCHILDABORT.	LITERALLY	
10		PFCTLC.	LITERALLY	
10		PFCTLD.	LITERALLY	
10		PFKEEP.	LITERALLY	
10		PFKERNAL.	LITERALLY	
10		PFNOCTLS.	LITERALLY	
10		PFPURE.	LITERALLY	
10		PFRAM.	LITERALLY	
10		PFRESOURCE.	LITERALLY	
10		PFSYS.	LITERALLY	
10		PFTABLE.	LITERALLY	
10		PFTEMPKEEP.	LITERALLY	
15	0000H	32 PLMSTACK.	WORD ARRAY(16) PUBLIC INITIAL	
241	03D7H	246 PLMSTART.	PROCEDURE PUBLIC STACK=001EH	
6		PNAMSIZ.	LITERALLY	
107	002CH	2 PRET.	WORD MEMBER(PD)	
54	0042H	16 PRINTBUF.	PROCEDURE STACK=000AH	94 96 98 100 102 103 131 133
			135 137 139 141 183 214	245 257 267 276
44	0011H	19 PRINTCHAR.	PROCEDURE STACK=000AH	117 118 129 152 153
145	01FBH	56 PRINTFILE.	PROCEDURE STACK=0010H	215
107	0005H	1 PRIOR.	BYTE MEMBER(PD)	
5		PROC.	LITERALLY	116 120 127 173 180
9		PSCIDWAIT.	LITERALLY	
9		PSDELAY.	LITERALLY	
9		PSDQ.	LITERALLY	
9		PSFLAGWAIT.	LITERALLY	
9		PSNQ.	LITERALLY	
9		PSPOLL.	LITERALLY	
9		PSRUN.	LITERALLY	
9		PSSLEEP.	LITERALLY	
9		PSSWAP.	LITERALLY	
9		PSTERN.	LITERALLY	
41	0002H	15 READCONSOLE.	PROCEDURE BYTE STACK=0008H	268
107	0028H	4 RESERVD.	BYTE ARRAY(4) MEMBER(PD)	
238	0042H	1 RESPONSE.	BYTE	268 269
88	0024H	2 RETCODE.	WORD	90 92
184	028BH	RETRY.	LABEL	194 198
79	00AFH	15 RETURNERRORS.	PROCEDURE STACK=0008H	252
120	0008H	2 S.	WORD PARAMETER AUTOMATIC	121 123 124
211	0034H	2 SAVDCNT.	WORD	222 233
86	0000H	2 SAVEAX.	WORD EXTERNAL(12)	90
86	0000H	2 SAVECX.	WORD EXTERNAL(13)	91
210	0040H	1 SAVSEARCHL.	BYTE	223 234
107	002EH	2 SCRATCH.	WORD MEMBER(PD)	
65	0071H	16 SEARCH.	PROCEDURE BYTE STACK=000AH	219
108	0008H	2 SEARCHA.	WORD MEMBER(UDA)	

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108	000AH	2	SEARCHBASE. . . .	WORD MEMBER(UDA)					
108	0007H	1	SEARCHL.	BYTE MEMBER(UDA)	223	234			
69	0081H	15	SEARCHN.	PROCEDURE BYTE STACK=0008H			235		
108	0002H	2	SEGMENT.	WORD MEMBER(UDAPTR)	111				
61	0061H	16	SETOMA.	PROCEDURE STACK=000AH		160	218	232	
107	0025H	1	SF3.	BYTE MEMBER(PD)					
107	0026H	1	SF4.	BYTE MEMBER(PD)					
107	0027H	1	SF5.	BYTE MEMBER(PD)					
			SHL.	BUILTIN	221				
209	0337H	131	SINGLEFILE.	PROCEDURE STACK=001AH		279			
13			STACKSIZ.	LITERALLY	15	16			
16	0000H	2	STACKSIZE.	WORD PUBLIC DATA					
107	0004H	1	STAT.	BYTE MEMBER(PD)					
115			SUCCESSFUL.	LITERALLY	171	230	273		
40	0000H	1	TBUFF.	BYTE ARRAY(1) EXTERNAL(11)		218	221	232	248
82	008EH	15	TERMINATE.	PROCEDURE STACK=0008H		104	143	205	258
107	0002H	2	THREAD.	WORD MEMBER(PD)					
5			TRUE.	LITERALLY	255				
147			TYP.	LITERALLY	151				
173	028EH	32	UCASE.	PROCEDURE BYTE STACK=000CH		186			
108	0000H	27	UDA.	STRUCTURE BASED(UDAPTR)		222	223	233	234
107	0010H	2	UDA.	WORD MEMBER(PD)	111				
108	002CH	4	UDAPTR.	POINTER	108	222	223	233	234
108	002CH	4	UDAPTR.	STRUCTURE AT	111	112			
12			UDASTRUCTURE.	LITERALLY	108				
238	0043H	1	USER.	BYTE	250				
107	0013H	1	USER.	BYTE MEMBER(PD)					
239	0036H	2	VER.	WORD	242	243			
4			VERBDS.	LITERALLY	243				
3			VERMASK.	LITERALLY	243				
2			VERNEEDSOS.	LITERALLY	245				
2			VEROS.	LITERALLY					
58	0052H	15	VERSION.	PROCEDURE WORD STACK=0008H		242			
107	001AH	2	WAIT.	WORD MEMBER(PD)					
114	0038H	1	XFCB.	BYTE INITIAL	158	255	265		

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MODULE INFORMATION:

CODE AREA SIZE = 04CDH 12290
 CONSTANT AREA SIZE = 012BH 2990
 VARIABLE AREA SIZE = 0046H 700
 MAXIMUM STACK SIZE = 001EH 300
 566 LINES READ
 0 PROGRAM ERROR(S)

END OF PL/M-86 COMPILATION

ISIS-II MCS-86 LOCATER, V1.2 INVOKED BY:

:FO: ERA.LNK DD(SM(CODE,DATA,STACK,CONST)) ADD(SM(CODE(C),DATS(10000H))) SS(STACK(+32)) TO ERA.

SYMBOL TABLE OF MODULE SCD

READ FROM FILE ERA.LNK

WRITTEN TO FILE ERA.

BASE	OFFSET	TYPE	SYMBOL	BASE	OFFSET	TYPE	SYMBOL
0000H	04D7H	PUB	PLMSTART	0000H	005DH	PUB	XDDS
0000H	005DH	PUB	MON1	0000H	005DH	PUB	MON2
0000H	005DH	PUB	MON3	0000H	005DH	PUB	MON4
1000H	0004H	PUB	BDISK	1000H	0006H	PUB	MAX8
1000H	0050H	PUB	CHDRV	1000H	0051H	PUB	PASS0
1000H	0053H	PUB	LENO	1000H	0054H	PUB	PASS1
1000H	0056H	PUB	LEN1	1000H	005CH	PUB	FCB
1000H	006CH	PUB	FCB16	1000H	007CH	PUB	CR
1000H	007DH	PUB	RR	1000H	007FH	PUB	RD
1000H	0080H	PUB	BUFF	1000H	0080H	PUB	TBUFF
1000H	0080H	PUB	BUFFA	1000H	005CH	PUB	FCBA
1000H	0100H	PUB	SAVEAX	1000H	0102H	PUB	SAVEBX
1000H	0104H	PUB	SAVECX	1000H	0106H	PUB	SAVEDX
1000H	0108H	PUB	PLMSTACK	1000H	018CH	PUB	STACKSIZE

ERASE: SYMBOLS AND LINES

1000H	02C0H	SYM	MEMORY
1000H	018CH	SYM	STACKSIZE
0000H	0111H	SYM	PRINTCHAR
0000H	0124H	SYM	CONIN
0000H	0142H	SYM	PRINTBUF
0000H	0152H	SYM	VERSTON
STACK	0004H	SYM	DMA
STACK	0004H	SYM	FCBADDRESS
0000H	0190H	SYM	DELETEFILE
0000H	01A0H	SYM	GETUSERCODE
0000H	018EH	SYM	TERMINATE
0000H	01C0H	SYM	PARSE
1000H	012EH	SYM	ERRCODE
1000H	0130H	BAS	PD
1000H	0134H	SYM	UDAPTR
0000H	0232H	SYM	GETUDA
0000H	025AH	SYM	CRLF
STACK	0008H	SYM	S
STACK	0004H	SYM	C
0000H	028BH	SYM	ERROR
0000H	02F8H	SYM	PRINTFILE
1000H	0141H	SYM	K
0000H	0333H	SYM	DELETE
STACK	0004H	BAS	FCBV
1000H	0142H	SYM	CODE
1000H	0143H	SYM	C
1000H	0144H	SYM	I
0000H	038BH	SYM	RETRY
0000H	042FH	SYM	EXIT
1000H	0146H	SYM	CODE
1000H	0148H	SYM	SAVSEARCHL
1000H	013CH	SYM	SAVDCNT
1000H	0149H	SYM	I
1000H	0148H	SYM	USER
1000H	013EH	SYM	VER

1000H	0108H	SYM	PLMSTACK
0000H	0102H	SYM	READCONSOLE
STACK	0004H	SYM	CHAR
0000H	0133H	SYM	CHECKCONSTAT
STACK	0004H	SYM	BUFFERADDRESS
0000H	0161H	SYM	SETDMA
0000H	0171H	SYM	SEARCH
0000H	0181H	SYM	SEARCHN
STACK	0004H	SYM	FCBADDRESS
0000H	01AFH	SYM	RETURNERRORS
1000H	0128H	SYM	PARSEFN
1000H	012CH	SYM	RETCODE
1000H	0130H	SYM	PDPOINTER
1000H	0134H	SYM	UDAPOINTER
1000H	0134H	BAS	UDA
1000H	0140H	SYM	XFCB
0000H	0268H	SYM	FILL
STACK	0006H	SYM	F
STACK	0008H	BAS	A
STACK	0004H	SYM	CODE
STACK	0004H	SYM	FCBP
STACK	0004H	BAS	FCBV
STACK	0004H	SYM	FCBADDRESS
1000H	0138H	SYM	ERRORCODE
0000H	038EH	SYM	UCASE
0000H	03AEH	SYM	GETPASSWD
1000H	0145H	SYM	C
0000H	03D4H	SYM	NXTCHR
0000H	0437H	SYM	SINGLEFILE
1000H	0147H	SYM	DCNT
1000H	013AH	SYM	FCBA
0000H	04BAH	SYM	FILEERR
1000H	014AH	SYM	RESPONSE
1000H	014CH	SYM	CODE
1000H	014DH	SYM	LASTDSEGBYTE

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0000H	0407H	SYM	PLMSTART
0000H	0105H	LIN	42
0000H	0111H	LIN	44
0000H	0120H	LIN	47
0000H	0127H	LIN	49
0000H	0133H	LIN	51
0000H	0142H	LIN	53
0000H	0145H	LIN	56
0000H	0152H	LIN	58
0000H	0161H	LIN	60
0000H	0164H	LIN	63
0000H	0171H	LIN	65
0000H	0181H	LIN	68
0000H	0184H	LIN	70
0000H	0190H	LIN	72
0000H	01A0H	LIN	75
0000H	01A3H	LIN	77
0000H	01AFH	LIN	79
0000H	01BCH	LIN	81
0000H	01C1H	LIN	83
0000H	01CDH	LIN	87
0000H	01DAH	LIN	90
0000H	01E6H	LIN	92
0000H	01F4H	LIN	95
0000H	0200H	LIN	97
0000H	020CH	LIN	99
0000H	0218H	LIN	101
0000H	0226H	LIN	103
0000H	0230H	LIN	106
0000H	0235H	LIN	110
0000H	0252H	LIN	112
0000H	025AH	LIN	116
0000H	0263H	LIN	118
0000H	026BH	LIN	120
0000H	027AH	LIN	123
0000H	0285H	LIN	125
0000H	028BH	LIN	127
0000H	0294H	LIN	130
0000H	02A1H	LIN	132
0000H	02AEH	LIN	134
0000H	02C1H	LIN	136
0000H	02CEH	LIN	138
0000H	02DBH	LIN	140
0000H	02E8H	LIN	142
0000H	02F7H	LIN	144
0000H	02FEH	LIN	150
0000H	0311H	LIN	152
0000H	0329H	LIN	154
0000H	0333H	LIN	156
0000H	033DH	LIN	159
0000H	0348H	LIN	161
0000H	035AH	LIN	163
0000H	0368H	LIN	166
0000H	037CH	LIN	168
0000H	0388H	LIN	171
0000H	038EH	LIN	173
0000H	039BH	LIN	176
0000H	03A9H	LIN	178
0000H	03AEH	LIN	180
0000H	03B4H	LIN	183

0000H	0102H	LIN	41
0000H	0111H	LIN	43
0000H	0114H	LIN	46
0000H	0124H	LIN	48
0000H	0133H	LIN	50
0000H	0136H	LIN	52
0000H	0142H	LIN	54
0000H	014EH	LIN	57
0000H	0155H	LIN	59
0000H	0161H	LIN	61
0000H	016DH	LIN	64
0000H	0174H	LIN	67
0000H	0181H	LIN	69
0000H	0190H	LIN	71
0000H	0193H	LIN	74
0000H	01A0H	LIN	76
0000H	01AFH	LIN	78
0000H	01B2H	LIN	80
0000H	01BEH	LIN	82
0000H	01CBH	LIN	84
0000H	01D0H	LIN	89
0000H	01E0H	LIN	91
0000H	01EDH	LIN	94
0000H	01F8H	LIN	96
0000H	0207H	LIN	98
0000H	0213H	LIN	100
0000H	021FH	LIN	102
0000H	022DH	LIN	104
0000H	0232H	LIN	109
0000H	0247H	LIN	111
0000H	0258H	LIN	113
0000H	025DH	LIN	117
0000H	0269H	LIN	119
0000H	026EH	LIN	122
0000H	0282H	LIN	124
0000H	0287H	LIN	126
0000H	028EH	LIN	129
0000H	029AH	LIN	131
0000H	02A7H	LIN	133
0000H	02BAH	LIN	135
0000H	02C7H	LIN	137
0000H	02D4H	LIN	139
0000H	02E1H	LIN	141
0000H	02F4H	LIN	143
0000H	02F8H	LIN	145
0000H	030AH	LIN	151
0000H	0317H	LIN	153
0000H	032FH	LIN	155
0000H	0336H	LIN	158
0000H	0344H	LIN	160
0000H	0353H	LIN	162
0000H	0361H	LIN	164
0000H	0370H	LIN	167
0000H	0383H	LIN	169
0000H	038EH	LIN	172
0000H	0391H	LIN	175
0000H	03A2H	LIN	177
0000H	03AEH	LIN	179
0000H	03B1H	LIN	182
0000H	03BBH	LIN	184

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0000H	03C8H	LIN	185
0000H	03DEH	LIN	187
0000H	03F2H	LIN	190
0000H	03F7H	LIN	193
0000H	0405H	LIN	197
0000H	0410H	LIN	201
0000H	0426H	LIN	205
0000H	042FH	LIN	207
0000H	0437H	LIN	209
0000H	048DH	LIN	213
0000H	04C7H	LIN	215
0000H	04D5H	LIN	217
0000H	0441H	LIN	219
0000H	0452H	LIN	221
0000H	046DH	LIN	223
0000H	0480H	LIN	226
0000H	0486H	LIN	228
0000H	0497H	LIN	231
0000H	04A1H	LIN	233
0000H	04B3H	LIN	235
0000H	0488H	LIN	237
0000H	04DAH	LIN	242
0000H	04F0H	LIN	245
0000H	0500H	LIN	248
0000H	050CH	LIN	250
0000H	0515H	LIN	252
0000H	051FH	LIN	254
0000H	052DH	LIN	257
0000H	0537H	LIN	260
0000H	054FH	LIN	264
0000H	055FH	LIN	267
0000H	056CH	LIN	269
0000H	058DH	LIN	272
0000H	059EH	LIN	275
0000H	05AEH	LIN	277
0000H	05C5H	LIN	279
0000H	05CBH	LIN	282

0000H	03D4H	LIN	186
0000H	03EBH	LIN	188
0000H	03F5H	LIN	191
0000H	03FEH	LIN	195
0000H	040CH	LIN	200
0000H	041FH	LIN	204
0000H	0429H	LIN	206
0000H	0435H	LIN	208
0000H	04BAH	LIN	212
0000H	04C0H	LIN	214
0000H	04CEH	LIN	216
0000H	043AH	LIN	218
0000H	044BH	LIN	220
0000H	0461H	LIN	222
0000H	0475H	LIN	224
0000H	0483H	LIN	227
0000H	0490H	LIN	230
0000H	049AH	LIN	232
0000H	04ACH	LIN	234
0000H	04B8H	LIN	236
0000H	04D7H	LIN	241
0000H	04E0H	LIN	243
0000H	04F7H	LIN	246
0000H	0506H	LIN	249
0000H	0512H	LIN	251
0000H	0518H	LIN	253
0000H	0526H	LIN	255
0000H	0534H	LIN	258
0000H	053CH	LIN	261
0000H	0556H	LIN	265
0000H	0566H	LIN	268
0000H	058AH	LIN	270
0000H	0590H	LIN	273
0000H	05A5H	LIN	276
0000H	05BCH	LIN	278
0000H	05C8H	LIN	281
0000H	0102H	LIN	283

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MEMORY MAP OF MODULE SCD
READ FROM FILE ERA.LNK
WRITTEN TO FILE ERA.

SEGMENT MAP

START	STOP	LENGTH	ALIGN	NAME	CLASS
00000H	005CCH	05CDH	G	CODE	CODE
10000H	10107H	0108H	G	DATS	DATA
10108H	1014DH	0046H	W	DATA	DATA
1014EH	1018BH	003EH	W	STACK	STACK
1018CH	102B6H	012BH	W	CONST	CONST
102C0H	102C0H	0000H	G	??SEG	
102C0H	102C0H	0000H	W	MEMORY	MEMORY

GROUP MAP

ADDRESS	GROUP OR SEGMENT NAME
00000H	CGROUP

10000H

CODE
DGROUP
DATS
STACK
CONST
DATA

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