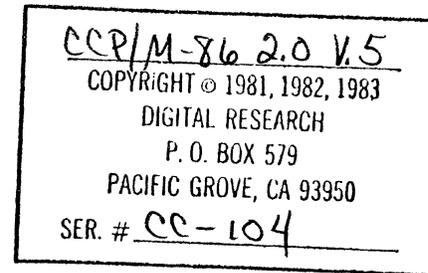


ISIS-II PL/M-86 V2.0 COMPILATION OF MODULE STATUS  
 OBJECT MODULE PLACED IN SYSTAT.OBJ  
 COMPILER INVOKED BY: :FO: SYSTAT.PLH XREF OPTIMIZE(3) DEBUG



```

$title("CCP/M-86 1.0 Systat Process - Transient")
$compact
/* want 32 bit pointers */
status:
do:

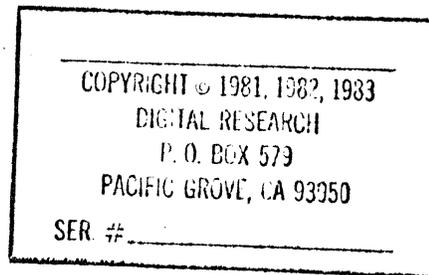
#include (:f2:copyrt.lit)
=
= /*
= Copyright (C) 1983
= Digital Research
= P.O. Box 579
= Pacific Grove, CA 93950
= */
=
#include (:f2:vaxcmd.lit)
=
**** VAX commands for generation - read the name of this program
for PRUGNAME below.
=
$ util := PRUGNAME
$ cpmsetup          I set up environment
$ assign "f$directory()" fl:      I 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 (scomon.plm)
=
=
=
=
/* Common Include Module for RSP and Transient CCPHSTAT */
=
#include(:f2:newcom.lit)
=1
2 1 =1 declare

```

```

=1      lit      literally      "literally",
=1      dcl      lit      "declare",
=1      true     lit      "offh",
=1      false   lit      "0",
=1      no      lit      "not",
=1      boolean lit      "byte",
=1      forever lit      "while true",
=1      tab     lit      ")";
=1
3 1 = dcl buff (128) byte external;
=
4 1 = mon1:
= procedure (func,info) external;
5 2 = dcl func byte;
6 2 = dcl info address;
7 2 = end mon1;
=
8 1 = mon2:
= procedure (func,info) byte external;
9 2 = dcl func byte;
10 2 = dcl info address;
11 2 = end mon2;
=
12 1 = mon3:
= procedure (func,info) address external;
13 2 = dcl func byte;
14 2 = dcl info address;
15 2 = end mon3;
=
16 1 = mon4:
= procedure (func,info) pointer external;
17 2 = dcl func byte;
18 2 = dcl info address;
19 2 = end mon4;
=
20 1 = patch: procedure; /* dummy area for patching code segments */
21 2 = declare i address;
22 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
27 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
32 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
37 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
42 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
47 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
52 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
57 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
62 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
67 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
72 2 = i=i+5; i=i+5; i=i+5; i=i+5; i=i+5;
77 2 = end patch;
=
78 1 = dcl maxpd byte initial (63); /* Maximum # process descriptors*/
79 1 = dcl maxmd byte initial (80); /* Maximum # memory descriptors*/
80 1 = dcl maxqflags byte initial (40h); /* Max Value for a queue flag */
81 1 = dcl freename (*)byte initial ("* FREE *"); /* For free memory partitions */

```



```

82 1 = dcl maxqueues byte initial (54); /* Maximum # of system queues */
83 1 = dcl lbracket byte initial ("[");
84 1 = dcl rbracket byte initial ("]");
85 1 = dcl repeat byte; /* Controls continuous display */
86 1 = dcl intrval word; /* Controls update timing */
87 1 = dcl specified byte; /* Command Line argument flag */
88 1 = dcl flaglen byte initial (3);
=
= /******
= /*
= /* Terminal-dependent Control Characters */
= /*
= /******
=
89 1 = dcl clearseq (6) byte initial (2,01bh,"E",0,0,0); /* ESC E = clear screen*/
90 1 = dcl homeseq (6) byte initial (2,01bh,"H",0,0,0); /* ESC H = home cursor */
91 1 = dcl CR lit "13"; /* CR = carriage return*/
92 1 = dcl LF lit "10"; /* LF = line feed */
=
=
= $include (:f2:mdsat.lit)
=1
93 1 =1 declare md$structure literally
=1 "structure(
=1 link word,
=1 start word,
=1 length word,
=1 plist word,
=1 unused word)";
=1
94 1 =1 declare ms$structure literally
=1 "structure(
=1 link word,
=1 start word,
=1 length word,
=1 flags word,
=1 mau word)";
=1
95 1 =1 declare sat$structure literally
=1 "structure(
=1 start word,
=1 len word,
=1 num$allocs byte)";
=1
= $include (:f2:proces.lit)
=1
=1 /*
=1 Proces Literals MP/M-8086 IT
=1 */
=1
96 1 =1 declare pnamsiz literally "8";
=1
97 1 =1 declare pd$hdr literally "structure
=1 (link word,thread word,stat byte,prior byte,flag word,
=1 name (8) byte,uda word,dsk byte,user byte,lisk byte,luser byte,
=1 mem word";
=1

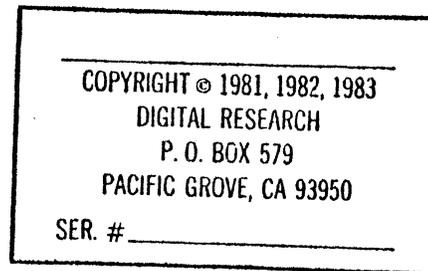
```

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```

98 1 =1 declare pd$structure literally "pd$nr,
    =1 dvract word,wait word,org byte,net byte,parent word,
    =1 cns byte,abort byte,conmode word,1st byte,sf3 byte,sf4 byte,sf5 byte,
    =1 reservd (4) byte,pret word,scratch word";
    =1
99 1 =1 declare p$run          lit "00",
    =1 p$poll                lit "01",
    =1 p$delay                lit "02",
    =1 p$swap                 lit "03",
    =1 p$term                 lit "04",
    =1 p$sleep                lit "05",
    =1 p$sdq                  lit "06",
    =1 p$snq                  lit "07",
    =1 p$flagwait            lit "08",
    =1 p$sciowait            lit "09";
    =1
100 1 =1 declare pf$sys       lit "00001h",
    =1 pf$keep                lit "00002h",
    =1 pf$kernal              lit "00004h",
    =1 pf$pure                 lit "00008h",
    =1 pf$table                lit "00010h",
    =1 pf$resource            lit "00020h",
    =1 pf$raw                  lit "00040h",
    =1 pf$ctlc                lit "00080h",
    =1 pf$active              lit "00100h",
    =1 pf$tempkeep           lit "00200h",
    =1 pf$ctld                lit "00400h",
    =1 pf$childabort         lit "00800h",
    =1 pf$noctls             lit "01000h";
    =1
101 1 =1 declare pcm$ll       lit "00001h",
    =1 pcm$ctls               lit "00002h",
    =1 pcm$rout               lit "00004h",
    =1 pcm$ctlc               lit "00008h",
    =1 pcm$ctlo               lit "00080h",
    =1 pcm$rsx                lit "00300h";
    =1 $include (:f2:sd.lit)
    =1
    =1 /* System Data Page */
    =1
102 1 =1 dcl sysdat$pointer pointer;
103 1 =1 dcl sysdat$ptr structure(
    =1 offset word,
    =1 segment word) at (@sysdat$pointer);
104 1 =1 declare sd based sysdat$pointer structure (
    =1 supmod (4) word,
    =1 /* rtmmod (4) word,
    =1 memmod (4) word,
    =1 ciomod (4) word,
    =1 bdosmod (4) word,
    =1 xiosmod (4) word,
    =1 netmod (4) word,
    =1 reservd (4) word */
    =1 space(28) word,
    =1 mpmseg word,
    =1 rspseg word,
    =1 endseg word,

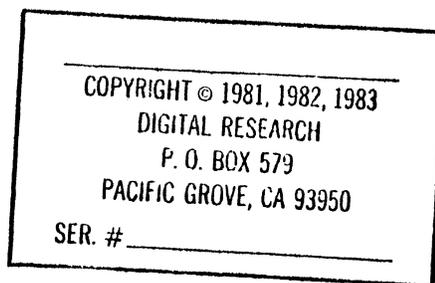
```



```

=1      module$map byte,
=1      nchs byte,
=1      nlst byte,
=1      nccb byte,
=1      nflags byte,
=1      srchdisk byte,
=1      mmp word,
=1      nslaves byte,
=1      dayfile byte,
=1      tempdisk byte,
=1      tickspsec byte,
=1      lul word,
=1      ccb word,
=1      flags word,
=1      mdul word,
=1      mfl word,
=1      pul word,
=1      qul word,
=1      qmau (4) word,
=1      rlr word,
=1      dlr word,
=1      drl word,
=1      plr word,
=1      slr word,
=1      thrdrt word,
=1      qlr word,
=1      mal word,
=1      version word,
=1      vernum word,
=1      mpavernum word,
=1      tod (2) word,
=1      tod_sec byte,
=1      ncondev byte,
=1      nlstdev byte,
=1      nciodev byte,
=1      lcb (2) word,
=1      lckmax byte,
=1      opmax byte,
=1      systot (2) word,
=1      cmad byte );
=1
105 1 =1 declare sd$byte based sysdat$pointer (1) byte;
=1
=1      $include (ifz:qd.lit)
=1
=1      /* Queue Descriptor */
106 1 =1 dcl qnamsiz lit "8";
=1
107 1 =1 dcl qd$structure lit "structure(
=1      link word,
=1      net byte,
=1      org byte,
=1      flags word,
=1      name(qnamsiz) byte,
=1      msglen word,

```



```

=1      nmsgs word,
=1      dq word,
=1      nq word,
=1      msgcnt word,
=1      msgout word,
=1      buffer word);
=1
=1      /* queue flag values */
=1
108 1 =1 dcl qf$mx      lit "001h"; /* Mutual Exclusion */
109 1 =1 dcl qf$keep    lit "002h"; /* NO DELETE */
110 1 =1 dcl qf$hide    lit "004h"; /* Not User writable */
111 1 =1 dcl qf$rsp     lit "008h"; /* rsp queue */
112 1 =1 dcl qf$stable lit "010h"; /* from qd table */
113 1 =1 dcl qf$rpl     lit "020h"; /* rpl queue */
114 1 =1 dcl qf$dev     lit "040h"; /* device queue */
=1
=1      /* Queue Parameter Block */
=1
115 1 =1 dcl qpb$structure lit "structure(
=1      flgs      byte,
=1      net       byte,
=1      qaddr     word,
=1      nmsgs     word,
=1      buffptr   word,
=1      name (qnam$iz) byte );
=1
=1      $include (:f2$flag.lit)
=1
=1      /* Flag Format */
=1
116 1 =1 dcl flag$structure lit "structure(
=1      pd word,
=1      ignore byte);
=1
=1      $include (:f2$uda.lit)
=1
=1      /* MP/M-86 II User Data Area format - August 8, 1981 */
=1
117 1 =1 declare uda$structure lit "structure (
=1      dparam      word,
=1      dma$ofst    word,
=1      dma$seg     word,
=1      func        byte,
=1      searchl     byte,
=1      searcha     word,
=1      searchabase word,
=1      dent        word,
=1      dblk        word,
=1      error$mode  byte,
=1      mult$cnt    byte,
=1      df$password (8) byte,
=1      pd$cnt      byte);
=1
=1      $include (:f2$vecb.lit)
=1      /* Concurrent CP/M Character Control Block Structure */
=1

```

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```

=1 csm$noswitch      lit      "0003h",
=1 csm$suspend      lit      "0010h",
=1 csm$abort        lit      "0020h",
=1 csm$filefull     lit      "0040h",
=1 csm$ctrlS       lit      "0090h",
=1 csm$ctrl0       lit      "0100h",
=1 csm$ctrlP       lit      "0200h";
=1
123 1 =1 dcl x$init$offset lit "0Ch",
=1      x$init$pointer pointer,
=1      x$init$ptr structure (offset word, segment word) at (@x$init$pointer),
=1      x$init based x$init$pointer structure
=1      (tick byte, ticks$sec byte, door byte, reserved (2) byte,
=1      nvcns byte, nccb byte, nlst byte, ccb word, lcb word);
=1
=1
124 1 =1 dcl lcb$structure lit "structure (attach address, queue address,
=1      flag byte, startcol byte, column byte, nchar byte,
=1      mimic byte, msource byte)";
=1
=1      /*$include (:f2:ccb.lit)*/
=1
=1
125 1 = dcl pd$pointer pointer; /* Double word bases for MP/M-86 data structures*/
126 1 = dcl pd$ptr structure(
=1      offset word,
=1      segment word) at (@pd$pointer);
127 1 = dcl pd based pd$pointer pd$structure;
=1
=1
128 1 = dcl qd$pointer pointer;
129 1 = dcl qd$ptr structure(
=1      offset word,
=1      segment word) at (@qd$pointer);
130 1 = dcl qd based qd$pointer qd$structure;
=1
=1
131 1 = dcl md$pointer pointer;
132 1 = dcl md$ptr structure(
=1      offset word,
=1      segment word) at (@md$pointer);
133 1 = dcl md based md$pointer md$structure;
=1
=1
134 1 = dcl ms$pointer pointer;
135 1 = dcl ms$ptr structure(
=1      offset word,
=1      segment word) at (@ms$pointer);
136 1 = dcl ms based ms$pointer ms$structure;
=1
=1
137 1 = dcl sat$pointer pointer;
138 1 = dcl sat$ptr structure(
=1      offset word,
=1      segment word) at (@sat$pointer);
139 1 = dcl sat based sat$pointer sat$structure;
=1
=1
140 1 = dcl flag$pointer pointer;
141 1 = dcl flag$ptr structure(
=1      offset word,
=1      segment word) at (@flag$pointer);
142 1 = dcl flag based flag$pointer flag$structure;

```

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```

=
143 1 = dcl vccb$pointer pointer;
144 1 = dcl vccb$ptr structure (
= offset word,
= segment word) at (@vccb$pointer);
145 1 = dcl vccb based vccb$pointer ccb$structure;
=
146 1 = dcl uda$pointer pointer;
147 1 = dcl uda$ptr structure (
= offset word,
= segment word) at (@uda$pointer);
148 1 = dcl uda based uda$pointer uda$structure;
=
=
= /* 8DOS Calls */
=
149 1 = reboot:
= procedure;
150 2 = call mon1(0,0);
151 2 = end reboot;
=
152 1 = conin:
= procedure byte;
153 2 = return(mon2(1,0));
154 2 = end conin;
=
155 1 = co:
= procedure (char);
156 2 = dcl char byte;
157 2 = call mon1(2,char);
158 2 = end co;
=
159 1 = rawconin:
= procedure byte;
160 2 = return mon2(6,0fdh);
161 2 = end rawconin;
=
162 1 = constat:
= procedure byte;
163 2 = return(mon2(11,0));
164 2 = end constat;
=
165 1 = rawco:
= procedure (char);
166 2 = dcl char byte;
167 2 = call mon1(6,char);
168 2 = end rawco;
=
169 1 = delay:
= procedure (num);
170 2 = dcl num address;
171 2 = call mon1(141,num);
172 2 = end delay;
=
173 1 = print$buffer:
= procedure (bufferadr);
174 2 = dcl bufferadr address;

```

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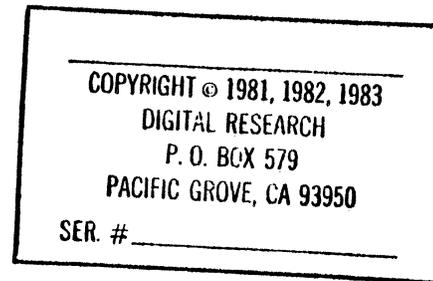
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```

175 2 =      call mon1 (9,bufferadr);
176 2 =      end print$buffer;
=
177 1 =      get$version:
=      procedure word;
178 2 =      return mon3(12,0);
179 2 =      end get$version;
=
180 1 =      terminate:
=      procedure;
181 2 =      call mon1(143,0);
182 2 =      end terminate;
=
183 1 =      get$sysdat:
=      procedure pointer;
184 2 =      return mon4(154,0);
185 2 =      end get$sysdat;
=
186 1 =      get$currpd:
=      procedure pointer;
187 2 =      return mon4(156,0);
188 2 =      end get$currpd;
=
=      /* utility functions */
=
189 1 =      crlf:
=      procedure;
190 2 =      call co (CR);
191 2 =      call co (LF);
192 2 =      end crlf;
=
193 1 =      print$infield:
=      /* Prints "len" # of bytes in a */
=      /* left- or right-justified field*/
=      /* of "width" dimension.      */
=      procedure (width,justify,len,dataddr);
=
194 2 =      dcl dataddr pointer;
195 2 =      dcl (width,len) byte,
=      (i,justify) byte;
196 2 =      dcl char based dataddr byte;
197 2 =      dcl dat$ptr structure(
=      offset word,
=      segment word) at (dataddr);
=
198 2 =      if len <= width then do;
=      /* Error Check */
200 3 =      if justify = "r" then
=      /* Right Justify */
201 3 =      do i=1 to (width-len) ;
=      /* Pad on the left */
202 4 =      call co(" ");
203 4 =      end;
204 3 =      do i=1 to len ;
=      /* Print the data */
205 4 =      call co (char and 7fh);
206 4 =      dat$ptr.offset = dat$ptr.offset + 1;
207 4 =      end;
208 3 =      if justify = "l" then
=      /* Left-justified*/
209 3 =      do i = 1 to (width-len);
=      /* Pad on the right*/
210 4 =      call co(" ");

```



```

211 4 =           end;
212 3 =           end;
213 2 =           end print$infield;
      =
      =
214 1 =           dcl hex$digit (*) byte data ("0123456789ABCDEF");
      =
215 1 =           display$hex$byte:
      =           procedure (value);
216 2 =             dcl value byte;
217 2 =             call co (hex$digit(snr(value,4)));
218 2 =             call co (hex$digit(value mod 16));
219 2 =           end display$hex$byte;
      =
220 1 =           display$hex$word:
      =           procedure (value);
221 2 =             dcl value word;
222 2 =             call display$hex$byte (high(value));
223 2 =             call display$hex$byte (low (value));
224 2 =           end display$hex$word;
      =
      =
225 1 =           print$hex$byte:                               /* Prints hex byte in a right- or */
      =                                                         /* left-justified field of "width"*/
      =                                                         /* dimension.                    */
      =           procedure (width,justify,val);
226 2 =           dcl (val,width) byte,
      =             (i,justify) byte;
      =
227 2 =           if width < 2 then return;                       /* Must be at least 2 for hex byte */
229 2 =           else do;
230 3 =             if justify = "r" then                           /* Right Justify */
231 3 =               do i=1 to (width - 2) ;
232 4 =                 call co(" ");                               /* Pad on the left */
233 4 =             end;
234 3 =             call display$hex$byte(val);                     /* Print the digits */
235 3 =             if justify = "l" then
236 3 =               do i=1 to (width-2) ;
237 4 =                 call co(" ");                               /* Pad on the right */
238 4 =             end;
239 3 =           end;
240 2 =           end print$hex$byte;
      =
      =
241 1 =           print$hex$word:                               /* Prints hex word in a right- */
      =                                                         /* or left-justified field of */
      =                                                         /* "width" dimension.         */
      =           procedure(width,justify,val);
242 2 =           dcl val word,
      =             (justify,width) byte;
243 2 =           dcl i byte;
      =
244 2 =           if width < 4 then return;                       /* Error check */
246 2 =           else do;
247 3 =             if justify = "r" then                           /* Field is right-justified */

```

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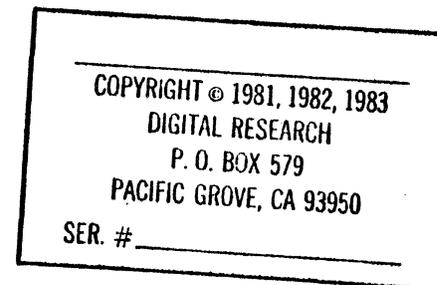
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```

248 3 =      do i=1 to (width-4) ;
249 4 =          call co(" ");          /* Pad on the left */
250 4 =      end;
251 3 =      call display$hex$word(val); /* Print the digits */
252 3 =      if justify = "l" then
253 3 =          do i=1 to (width-4) ;
254 4 =          call co(" ");          /* Pad on the right */
255 4 =          end;
256 3 =      end;
=
257 2 =      end print$hex$word;
=
258 1 =      clear: procedure;
259 2 =      dcl i byte;
=
260 2 =          do i = 1 to clearseq(0); /* 1st element = counter */
261 3 =          call rawco(clearseq(i)); /* Direct clear_screen sequence */
262 3 =          end; /* to terminal. */
263 2 =      end clear;
=
264 1 =      home: procedure;
265 2 =      dcl i byte;
=
266 2 =          do i = 1 to homeseq(0); /* 1st element = counter */
267 3 =          call rawco(homeseq(i)); /* direct home cursor sequence */
268 3 =          end; /* to terminal. */
=
269 2 =      end home;
=
270 1 =      skip$lines: procedure(numlines);
271 2 =      dcl (numlines,i) byte;
=
272 2 =          do i = 1 to numlines;
273 3 =          call co(LF);
274 3 =          end;
275 2 =      end skip$lines;
=
276 1 =      cons$wait: procedure;
277 2 =      dcl chr byte;
=
278 2 =          call print$buffer(, (CR, LF,
=          Type any key to leave and return to main menu.~));
279 2 =          chr = conin;
=
280 2 =      end cons$wait;
=
281 1 =      aschex: /* Convert ascii to hex*/
=          procedure(num) byte;
282 2 =      dcl num byte;
=
283 2 =          if (num > 47) and (num < 58) then do; /* 0 - 9 range */
285 3 =              num = num - "0";
286 3 =          end;
287 2 =          else do;
288 3 =              if (num > 64) and (num < 71) then do; /* A - F range */
290 4 =                  num = num - 55;
291 4 =              end;

```



```

292 3 =           else do;
293 4 =             if (num > 96) and (num < 103) then do;           /* a - f range */
295 5 =               num = num - d7;
296 5 =               end;
                =
                =           else
297 4 =               num = 015h;           /* Error -> Default */
298 4 =               end;
299 3 =               end;
300 2 =           return (num);
                =
301 2 = end aschex;
                =
302 1 = get$intrval: procedure word;
303 2 = dcl (chr,chr1) byte,
                =           ticdelay word;
                =
                =
304 2 =           chr = conin;
305 2 =           if (chr <> LF) and (chr <> CR) then do;           /* It's not a default */
307 3 =             chr = aschex(chr);           /* Get true hex version */
308 3 =             chr1 = conin;           /* wait for CR or LF */
309 3 =             if (chr1 <> LF) and (chr1 <> CR) then do;           /* 2nd hex digit */
311 4 =               chr = shl(chr,4) + aschex(chr1);
312 4 =               chr1 = conin;           /* Get this CR LF */
313 4 =             end;
314 3 =           end;
                =
                =           else
315 2 =             chr = 01h;           /* Default value */
316 2 =             ticdelay = chr * (sd.tickspersec);           /* Convert to system ticks */
317 2 =             return (ticdelay);
                =
                =
318 2 = end get$intrval;
                =
                =
319 1 = disp$mainhdr: procedure;           /* Main Menu Display */
                =
                =
320 2 =           call home; call clear;
322 2 =           call crlf; call crlf;
324 2 =           call print$infield(34,"r",14,@("Which Option?"));
325 2 =           call crlf; call crlf;
327 2 =           call print$infield(33,"r",7,@("H (elp)"));
328 2 =           call crlf;
329 2 =           call print$infield(35,"r",9,@("M (emory)"));
330 2 =           call crlf; call print$infield(37,"r",11,@("O (overview)"));
332 2 =           call crlf; call print$infield(44,"r",18,@("P (rocesses - all)"));
334 2 =           call crlf; call print$infield(35,"r",9,@("Q (ueses)"));
336 2 =           call crlf; call print$infield(43,"r",17,@("U (ser processes)"));
338 2 =           call crlf; call print$infield(33,"r",7,@("E (xit)"));
340 2 =           call crlf; call crlf; call print$infield(26,"r",2,@("->"));
                =
                =
343 2 = end disp$mainhdr;
                =
                =
344 1 = print$opt$err: procedure;
345 2 =           call print$buffer(.(CR,LF," illegal command tail.$"));
346 2 =           call crlf;
347 2 =           call terminate;
348 2 =           end print$opt$err;
                =

```

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```

349 1 = display$help: procedure;
    =
350 2 = call home; call clear;
352 2 = call crlf; call crlf;
354 2 = call crlf; call print$infield(42,"r",23,@("VALID SYSTAT COMMANDS :"));
356 2 = call crlf; call crlf; call print$infield(25,"r",6,@("SYSTAT"));
359 2 = call crlf; call print$infield(34,"r",15,@("SYSTAT OPTION 1"));
361 2 = call crlf; call print$infield(36,"r",17,@("SYSTAT OPTION 2"));
363 2 = call crlf; call print$infield(39,"r",20,@("SYSTAT OPTION C ##1"));
365 2 = call crlf; call crlf; call print$infield(20,"r",9,@("- where -"));
368 2 = call crlf; call crlf;
370 2 = call print$infield(44,"r",25,@("-> C = continuous display"));
371 2 = call crlf; call print$infield(47,"r",28,@("-> ## = 1-2 digit hex timer.));
373 2 = call crlf; call crlf; call print$infield(30,"r",11,@("-> OPTION ="));
376 2 = call crlf; call print$infield(55,"r",33,@("M(emory) P(rocesses) Q(overview)"));
378 2 = call crlf; call print$infield(56,"r",33,@("U(ser Processes) Q(ueues) H(elp)"));
380 2 = call crlf;
    =
381 2 = if not(specified) then
382 2 = call const$wait;
    =
    else
383 2 = call terminate;
    =
384 2 = end display$help;
    =
    =
385 1 = prntheadr: procedure; /* Used in Process Data Display */
    =
386 2 = call home; call clear;
388 2 = call print$infield(20,"r",18,@("Virtual Process"));
389 2 = call crlf;
390 2 = call print$infield(20,"r",18,@("Console Name "));
391 2 = call print$infield(37,"r",35,@("Flag Prior Status Resource"));
392 2 = call crlf;
393 2 = call print$infield(20,"r",18,@("-----"));
394 2 = call print$infield(37,"r",35,@("-----"));
    =
395 2 = end prntheadr;
    =
    =
396 1 = disp$status: procedure(stat); /* Prints formatted status field */
397 2 = dcl stat byte; /* of Process display. */
    =
398 2 = if (stat >=0) and (stat < 11) then do;
400 3 = do case stat;
401 4 = call print$infield(13,"1",5,@("READY"));
402 4 = call print$infield(13,"1",4,@("POLL"));
403 4 = call print$infield(13,"1",5,@("DELAY"));
404 4 = call print$infield(13,"1",4,@("SWAP"));
405 4 = call print$infield(13,"1",9,@("TERMINATE"));
406 4 = call print$infield(13,"1",5,@("SLEEP"));
407 4 = call print$infield(13,"1",7,@("READING"));
408 4 = call print$infield(13,"1",7,@("WRITING"));
409 4 = call print$infield(13,"1",9,@("FLAG WAIT"));
410 4 = call print$infield(13,"1",8,@("CIO WAIT"));

```

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```

411 4 =          call print$infield(13,"1",3,@("SYNCHING"));
412 4 =          endi;
413 3 =          endi;
414 2 =          else
              call print$infield(13,"1",5,@("ERROR"));
415 2 =          end disp$status;

416 1 =  disp$resource: procedure(stats,rsrce);/* Prints formatted resource field */
417 2 =          dcl stats byte;          /* of Process display. */
418 2 =          dcl (rsrce,offs) word;
419 2 =          dcl (count,notfound) byte; /* nor flag table traversal */

420 2 =          if (stats >=0) and (stats < 11) then do;
422 3 =          do case stats;
423 4 =              call print$infield(13,"1",3,@("CPU          ")); /* Case 0 */
424 4 =              do; /* Case 1 */
425 5 =                  call print$infield(8,"1",8,@("DEVICE #"));
426 5 =                  call print$hex$byte(4,"1",low(rsrce));
427 5 =              end;
428 4 =              do; /* Case 2 */
429 5 =                  call print$infield(8,"1",8,@("TICKS = "));
430 5 =                  call print$hex$word(4,"1",rsrce);
431 5 =              end;
432 4 =              call print$infield(13,"1",7,@("SWAPERR    ")); /* Case 3 */
433 4 =              call print$infield(13,"1",3,@("CPU          ")); /* Case 4 */
434 4 =              do;
435 5 =                  if rsrce = sd.rlr then /* Case 5 */
436 5 =                      call print$infield(13,"1",10,@("READY LIST"));
437 5 =                  else if rsrce = sd.dlr then
438 5 =                      call print$infield(13,"1",10,@("DELAY LIST"));
439 5 =                  else if rsrce = sd.drl then
440 5 =                      call print$infield(13,"1",10,@("DISPATCHER"));
441 5 =                  else if rsrce = sd.plr then
442 5 =                      call print$infield(13,"1",9,@("POLL LIST"));
443 5 =                  else
444 5 =                      call print$infield(13,"1",5,@("OTHER"));
445 4 =              end;
446 5 =              do; /* Case 6 */
447 5 =                  qd$ptr.offset = rsrce;
448 5 =                  call print$in$infield(12,"1",pname-12,@qd.name);
449 4 =              do; /* Case 7 */
450 5 =                  qd$ptr.offset = rsrce;
451 5 =                  call print$in$infield(12,"1",pname-12,@qd.name);
452 5 =              end;
453 4 =              do; /* Case 8 */
454 5 =                  call co(023h); /* A "*" sign */
455 5 =                  if rsrce <> 0ffffh then
456 5 =                      call print$hex$byte(12,"1",low(rsrce));
457 5 =                  else
458 5 =                      call print$in$infield(12,"1",1,@("?"));
459 4 =              do; /* Case 9 */
460 5 =                  call print$infield(10,"1",9,@("CONSOLE #"));

```

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461 5 =      call display$hex$byte(low($resource));
462 5 =      end;
463 4 =      call print$infield(13,"1",13,0("  ")); /* Case 10*/
464 4 =      end; /* case */
465 3 =      end;
          =      else
466 2 =      call print$infield(12,"1",5,0("ERROR")); /* Invalid Status Value */
467 2 =      end disp$resource;
          =
468 1 =      dcl pd$list (64) structure ( /* Stores fields of successive pd's.*/
          =      cns byte,
          =      name (8) byte,
          =      flag word,
          =      prior byte,
          =      stat byte,
          =      resource word);
          =
469 1 =      dcl link$list (64) word;
          =
470 1 =      display$proc: procedure(link$field);
471 2 =      dcl link$field byte; /* True = user proc's only, False = all proc's*/
472 2 =      dcl (char,temp) byte; /* Temp controls continuous printout */
473 2 =      dcl (k,n) byte,
          =      (notfound,i) byte;
          =
474 2 =      if not(specified) then do;
476 3 =      call crlf;
477 3 =      call print$buffer(.CR,LF," Continuous Display?");
478 3 =      char = conin;
479 3 =      if (char = "y") or ( char = "Y") then do;
481 4 =      repeat = true;
482 4 =      call print$buffer(.CR,LF,"Time Interval (in(hex) :$");
483 4 =      intrval = get$intrval;
          =
484 4 =      end;
485 3 =      end;
          =
486 2 =      temp = true;
487 2 =      call prnthead;
          =
488 2 =      do while (temp or repeat); /* Display until user hits any key */
489 3 =      disable; /* critical section required to obtain list*/
490 3 =      temp = false;
491 3 =      n = -1;
492 3 =      pd$ptr.offset = sd.thrdmt; /* Start at fthread List root. */
493 3 =      getpds; /* Put all pd's on the list */
          =      do while (pd$ptr.offset <> 0) and (n <> maxpd);
494 4 =      n = n + 1;
495 4 =      if not(link$field) or (pd.mem <> 0) then /* Is it user processes only ? */
496 4 =      do; /* Either display all processes anyway or */
          =      /* or this is a valid user process. */
497 5 =      pd$list(n).cns = pd.cns;
498 5 =      do i= 0 to pnamsiz-1;
499 6 =      pd$list(n).name(i) = pd.name(i);
500 6 =      end;
501 5 =      pd$list(n).flag = pd.flag;
502 5 =      pd$list(n).prior = pd.prior;

```

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503 5 =      pd$list(n).stat = pd.stat;
      =
      =      /* Use sysdat info to determine what each*/
      =      /* process is waiting for or using. Get */
      =      /* Queue names, flag #'s, system ticks, list*/
      =      /* names and device or console #'s. Must */
      =      /* be done in critical region. */
      =      /* Save this to determine resource. */
504 5 =      i = pd.stat;
505 5 =      if (i = 1) or (i = 2) then
506 5 =          pd$list(n).resource = pd.wait; /* device # or # of ticks delayed */
      =      else
507 5 =          if i = 5 then /* Process is sleeping - find out which list*/
508 5 =              do;
509 6 =                  uda$ptr.segment = pd.uda;
510 6 =                  uda$ptr.offset = 0;
511 6 =                  pd$list(n).resource = uda.dparam;
512 6 =              end;
      =      else
513 5 =          if (i = 6) or (i = 7) then /* Process is reading from or writing to */
514 5 =              do; /* a queue. Get address of queue name. */
515 6 =                  uda$ptr.segment = pd.uda;
516 6 =                  uda$ptr.offset = 0;
517 6 =                  if i = 6 then
518 6 =                      pd$list(n).resource = (uda.dparam) - 12h;
      =                      else
519 6 =                          pd$list(n).resource = (uda.dparam) - 14h;
520 6 =                  end;
      =      else
521 5 =          if i = 8 then /* Process is waiting on a flag, get the */
522 5 =              do;
523 6 =                  pd$list(n).resource = 0ffffh; /* Remains if no flag found */
524 6 =                  flag$ptr.offset = sd.flags;
525 6 =                  notfound = true;
526 6 =                  k = 0; /* Flag counter */
527 6 =                  do while notfound;
528 7 =                      if (flag.pd <> pd$ptr.offset) then do;
529 8 =                          k = k + 1;
530 8 =                          flag$ptr.offset = flag$ptr.offset + flaglen;
531 8 =                          if k > sd.nflags then /* End of table */
532 8 =                              notfound = false;
533 8 =                          end;
534 8 =                      else /* This is the flag*/
535 7 =                          do;
536 8 =                              pd$list(n).resource = k;
537 8 =                              notfound = false;
538 8 =                          end;
539 7 =                      end;
540 6 =                  end;
      =      else
541 5 =          if i = 9 then do;
542 6 =              pd$list(n).resource = pd.cns;
543 6 =          end;
544 6 =      end; /* Valid processes*/
      =      else
546 4 =          n = n - 1; /* Ignore system processes */
547 4 =          pd$ptr.offset = pd.thread; /* Get the next process*/
548 4 =      end getpds;
      =

```

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549 3 = if n = -1 then return; /* stop here if no pds */
    =
551 3 = enable;
552 3 = call home; call skip$lines(3); /* enables interrupts */
554 3 = printpds:
    = do k = 0 to n;
555 4 = if k (<> 0) then call crlf;
557 4 = call print$hex$byte(7,"r",pd$list(k).cns);/* print virtual console */
558 4 = call print$buffer(.( "$");
559 4 = call print$infield(9,"l",@namsiz,@pd$list(k).name); /* print name */
560 4 = call print$hex$word(8,"l",pd$list(k).flag);
561 4 = call print$hex$byte(7,"l",pd$list(k).prior); /* print its priority */
562 4 = call disp$status(pd$list(k).stat); /* print process status */
563 4 = call disp$resource(pd$list(k).stat,pd$list(k).resource);
    = /* print resource */
    =
564 4 = end printpds;
    =
565 3 = if n < 21 then do;
567 4 = do k = n to 18;
568 5 = call print$buffer(.(CR,LF,
    = "$"));
569 5 = end;
570 4 = end;
    =
571 3 = if constat then do; /* Check for User interrupt*/
573 4 = repeat = false;
574 4 = char = conin; /* Swallow stop char */
575 4 = end;
576 3 = if repeat then do; /* If still going,delay it */
578 4 = call delay(interval); /* and go back to loop 'top */
579 4 = if (n >= 20) then
580 4 = call prntheadr;
581 4 = end;
582 3 = else do;
583 4 = if not(specified) then /* if not comline args then */
584 4 = call cons$wait; /* let them get to main menu*/
    = else
585 4 = call terminate;
586 4 = end;
    =
587 3 = end; /*while loop*/
    =
588 2 = end display$proc;
    =
589 1 = dcl sortrecd structure ( name (8) byte, /* Stores data when sorting*/
    = start word,
    = pd word,
    = len word,
    = cns byte );
    =
590 1 = dcl sortarray (80) structure ( /* For sorting and printing*/
    = name (8) byte,
    = start word,
    = pd word,

```

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=
=          len      word,
=          cns      byte );
=
591 1 = dcl sharearray (30) structure (          /* For Shared Code List */
=          name (8) byte,
=          start  word,
=          disk   byte,
=          user   byte,
=          len    word,
=          cns    byte );
=
592 1 = disp$memhdr : procedure;
=
593 2 = call home; call clear;
595 2 = call print$buffer(,"Process Virtual          | $");
596 2 = call print$buffer(,"Process Virtual $");
597 2 = call print$buffer(,(CR,LF," Name Console PD# Start Len | $"));
598 2 = call print$buffer(," Name Console PD# Start Len $");
599 2 = call print$buffer(,(CR,LF,"----- | $"));
600 2 = call print$buffer(,"----- $");
=
=
601 2 = end disp$memhdr;
=
=
602 1 = print$sorted:          /* Prints two columns of memory data */
=          procedure(cnt,scnt);          /* Uses sorted array of structures. */
603 2 = dcl (cnt,scnt) byte,          /* cnt: regular mem,scnt: shared mem */
=          (m,q,k) byte;
=
=
604 2 = call home;
605 2 = call skip$lines(3);
=
=
606 2 = if (cnt > 1) then do;          /* Must have two per line here */
608 3 = do m = 0 to ((cnt/2)-1);          /* If odd #, hold last one */
609 4 = call crlf;          /* Print 2 columns, ascending values*/
610 4 = k = m;
611 4 = do q = 1 to 2 ;
612 5 = call print$infield(12,"1",pnamsiz,@sortarray(k).name);
613 5 = if sortarray(k).cns = 030h then
614 5 = call print$buffer(," $");
615 5 = else call print$hex$byte(7,"1",sortarray(k).cns);
616 5 = call print$hex$word(6,"1",sortarray(k).pd);
617 5 = call print$hex$word(7,"1",sortarray(k).start);
618 5 = call print$hex$word(5,"1",sortarray(k).len);
619 5 = if (q mod 2) <> 0 then
620 5 = call print$buffer(,"| $");
621 5 = k = k + (cnt/2);          /* Go to other half of the array */
622 5 = end;
623 4 = end;
624 3 = end;
=
=
625 2 = if (cnt mod 2) <> 0 then do;          /* Only put one on last line */
=          /* Print blanks on left */
627 3 = call print$buffer(,(CR,LF,
=          | $));
628 3 = call print$infield(12,"1",pnamsiz,@sortarray(cnt-1).name);

```

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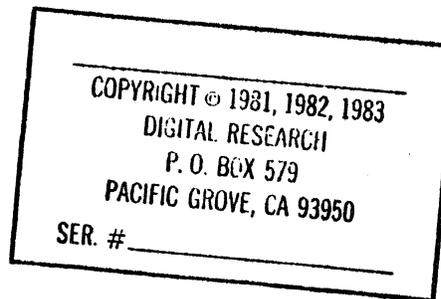
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629 3 =      if sortarray(cnt-1).cns = 050h then
630 3 =          call print$buffer(.( "      $"));
        =      else
631 3 =          call print$hex$byte(7,"1",sortarray(cnt-1).cns);
632 3 =          call print$hex$word(6,"1",sortarray(cnt-1).pd);
633 3 =          call print$hex$word(7,"1",sortarray(cnt-1).start);
634 3 =          call print$hex$word(5,"1",sortarray(cnt-1).len);
635 3 =      end;
        =
636 2 =      if (scnt > 0) then do;
638 3 =          call print$buffer(.(CR,LF,
        =          "      Shared Code List          $"));
639 3 =          call print$buffer(.( "      $"));
640 3 =      end;
        =
641 2 =      if (scnt > 1) then do;
643 3 =          do m = 0 to ((scnt/2) - 1);
644 4 =              call crlf;
645 4 =              k = m;
646 4 =              do q = 1 to 2;
647 5 =                  call print$infield(12,"1",pnamsiz,@sharearray(k).name);
648 5 =                  call print$hex$byte(7,"1",sharearray(k).cns);
649 5 =                  call print$hex$byte(2,"1",sharearray(k).disk);
650 5 =                  call print$hex$byte(4,"1",sharearray(k).user);
651 5 =                  call print$hex$word(7,"1",sharearray(k).start);
652 5 =                  call print$hex$word(5,"1",sharearray(k).len);
653 5 =                  if (q mod 2) <> 0 then
654 5 =                      call print$buffer(.( "      $"));
655 5 =                  k = k + (scnt/2);
656 5 =              end;
657 4 =          end;
658 3 =      end;
        =
659 2 =      if (scnt > 0) then do;
        =
661 3 =          if (scnt mod 2) <> 0 then do;          /* Odd # of md's.      */
        =          call print$buffer(.(CR,LF,          /* Put just 1 on last line*/
        =          "      | $"));
664 4 =          call print$infield(12,"1",pnamsiz,@sharearray(scnt-1).name);
665 4 =          call print$hex$byte(7,"1",sharearray(scnt-1).cns);
666 4 =          call print$hex$byte(2,"1",sharearray(scnt-1).disk);
667 4 =          call print$hex$byte(4,"1",sharearray(scnt-1).user);
668 4 =          call print$hex$word(7,"1",sharearray(scnt-1).start);
669 4 =          call print$hex$word(5,"1",sharearray(scnt-1).len);
670 4 =      end;
        =
671 3 =          scnt = scnt + 1;          /* Count its heading */
672 3 =      end;
        =
673 2 =      if ((cnt+scnt)/2) < 21 then do;          /* Clear rest of screen */
675 3 =          do k = ((cnt+scnt)/2) to 18;
676 4 =              call print$buffer(.(CR,LF,
        =              "      $"));
677 4 =          call print$buffer(.( "      $"));
678 4 =      end;
679 3 =      end;

```



```

=
=
680 2 = end print$sorted;
=
=
681 1 = display$mem:
=     procedure;
682 2 =     dcl (i,mdcnt,pdcnt) byte; /* i,dcnt = memory descriptor count */
683 2 =     dcl (x,y) byte, /* pdcnt = process descr. count */
=     (cont,scdcnt) byte, /* cont = boolean "continue" */
=     n integer,
=     (temp,chr) byte,
=     savmau word;
=
684 2 =     if not(specified) then do;
=
=     /* Does User want continuous display? */
686 3 =     call print$buffer(.(CR,LF, " Continuous Display? $"));
687 3 =     chr = conin;
688 3 =     if (chr = "y") or (chr = "Y") then do;
690 4 =         repeat = true;
691 4 =         call print$buffer(.(CR,LF, " Time Interval (in hex): $"));
692 4 =         intrval = get$intrval; /* Get hex value from terminal */
693 4 =         end;
694 3 =     end;
695 2 =     temp = true;
=
696 2 =     call home; call clear;
698 2 =     call disp$memhdr;
699 2 =     do while (temp or repeat); /* Display at least once */
700 3 =     temp = false;
701 3 =     do pdcnt = 0 to maxpd;
702 4 =         link$list(pdcnt) = 0;
703 4 =         end;
704 3 =     n = -1;
705 3 =     pdcnt = 0;
=
706 3 =     disable; /* Critical section required to obtain list */
=
707 3 =     getmemowners:
=         pd$ptr.offset = sd.thrdrt; /* Start at Thread Root */
708 3 =         do while (pd$ptr.offset <> 0) and (pdcnt <> maxpd);
709 4 =             if pd.mem <> 0 then do; /* If it owns memory, */
711 5 =                 link$list(n:=n+1) = pd$ptr.offset; /* put it on the list. */
712 5 =                 pdcnt = pdcnt + 1;
713 5 =             end;
714 4 =             pd$ptr.offset = pd.thread; /* Go to next process */
715 4 =             end;
716 3 =         if pdcnt = 0 then return;
=
718 3 =     getads:
=         mdcnt = 0;
719 3 =         do i = 0 to (pdcnt-1);
720 4 =             pd$ptr.offset = link$list(i); /* Reset Proc Descriptor */
721 4 =             ms$ptr.offset = pd.mem;
722 4 =             cont = true;
723 4 =             do while (cont and (mdcnt <= maxmd));

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724 5 =      sortarray(mdcnt).pd = pd$ptr.offset; /* Get proc descriptor */
725 5 =      cont = false;
726 5 =      md$ptr.offset = ms.mau; /* Hd is on HLL */
727 5 =      sortarray(mdcnt).start = md.start;
728 5 =      sortarray(mdcnt).len = md.length;
729 5 =      sortarray(mdcnt).cns = pd.cns;
730 5 =      do x = 0 to 7; /* Get owner's name */
731 6 =          sortarray(mdcnt).name(x) = pd.name(x); /* A byte at a time */
732 6 =      end;
733 5 =      if ms.link <> 0 then do; /* More md's for this */
734 6 =          /* process ? */
735 6 =          savmau = ms.mau;
736 6 =          ms$ptr.offset = ms.link;
737 6 =          do while (ms.mau = savmau) and (ms.link <> 0);
738 7 =              savmau = ms.mau; /* Look for a different */
739 7 =              ms$ptr.offset = ms.link; /* partition, same pd. */
740 7 =          end;
741 6 =          if (savmau <> ms.mau) then /* Check if same mau */
742 6 =              cont = true; /* If not, go get another md*/
743 6 =          end;
744 5 =          mdcnt = mdcnt + 1;
745 5 =      end; /* while cont : a single pd's memory*/
746 4 =      end; /* All pd's memory*/
747 3 =      md$ptr.offset = sd.mfl;
748 3 =      do while md$ptr.offset <> 0 and (mdcnt < maxmd);
749 4 =          do x = 0 to 7;
750 5 =              sortarray(mdcnt).name(x) = freename(x); /*Use "FREE" as name*/
751 5 =          end;
752 4 =          sortarray(mdcnt).start = md.start;
753 4 =          sortarray(mdcnt).pd = 0;
754 4 =          sortarray(mdcnt).len = md.length;
755 4 =          sortarray(mdcnt).cns = 030h;
756 4 =          mdcnt = mdcnt+1;
757 4 =          md$ptr.offset = md.link;
758 4 =      end;
759 3 =      getshared; /* Get shared code */
760 3 =          n = -1; /* Free and used */
761 3 =          pdcnt = 0;
762 3 =          sdcnt = 0;
763 3 =          pd$ptr.offset = sd.slr; /* Top of shared list*/
764 3 =          do while (pd$ptr.offset <> 0) and (pdcnt < maxpd);
765 4 =              link$list(n:=n + 1) = pd$ptr.offset;
766 4 =              pdcnt = pdcnt + 1;
767 4 =              pd$ptr.offset = pd.thread;
768 4 =          end;
769 3 =          if (pdcnt > 0) then do;
770 4 =              do i = 0 to (pdcnt-1);
771 5 =                  pd$ptr.offset = link$list(i);
772 5 =                  ms$ptr.offset = pd.mam;
773 5 =                  cont = true;
774 5 =              end do while (cont and (sdcnt < maxmd));

```

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```

775 6 =      cont = false;
776 6 =      sharearray(scdcnt).cns = pd.cns;
777 6 =      sharearray(scdcnt).fisk = pd.ldsk;
778 6 =      sharearray(scdcnt).user = pd.luser;
779 6 =      md$ptr.offset = ms.mau;
780 6 =      sharearray(scdcnt).start = md.start;
781 6 =      sharearray(scdcnt).len = md.length;
782 6 =      do x = 0 to (pnamsiz - 1);
783 7 =          sharearray(scdcnt).name(x) = pd.name(x);
784 7 =      end;
785 6 =      if (ms.link <> 0) then do;
787 7 =          savmau = ms.mau;
788 7 =          ms$ptr.offset = ms.link;
789 7 =          do while (ms.mau = savmau) and (ms.link <> 0);
790 8 =              savmau = ms.mau;
791 8 =              ms$ptr.offset = ms.link;
792 8 =          end;
793 7 =          if (ms.mau <> savmau) then
794 7 =              cont = true;
795 7 =          end;
796 6 =      scdcnt = scdcnt + 1;
797 6 =      end;
798 5 =      end;
799 4 =      end;
=
800 3 =      enable;                                /* End critical section */
=
=
=
801 3 =      /* Now sort the list of partitions */
=      sortmds :
=          do x = 0 to (mdcnt-1);
802 4 =              sortrecd.start = sortarray(x).start;
803 4 =              do i = 0 to 7;
804 5 =                  sortrecd.name(i) = sortarray(x).name(i);
805 5 =              end;
806 4 =              sortrecd.len = sortarray(x).len;
807 4 =              sortrecd.pd = sortarray(x).pd;
808 4 =              sortrecd.cns = sortarray(x).cns;
809 4 =              y = x;
810 4 =              find : do while (y > 0) and ( sortarray(y-1).start > sortrecd.start);
811 5 =                  sortarray(y).start = sortarray(y-1).start;
812 5 =                  do i = 0 to 7;
813 6 =                      sortarray(y).name(i) = sortarray(y-1).name(i);
814 6 =                  end;
815 5 =                  sortarray(y).len = sortarray(y-1).len;
816 5 =                  sortarray(y).pd = sortarray(y-1).pd;
817 5 =                  sortarray(y).cns = sortarray(y-1).cns;
818 5 =                  y = y-1;
819 5 =              end find;
=
820 4 =              sortarray(y).start = sortrecd.start;
821 4 =              do i = 0 to 7;
822 5 =                  sortarray(y).name(i) = sortrecd.name(i);
823 5 =              end;
824 4 =              sortarray(y).len = sortrecd.len;
825 4 =              sortarray(y).pd = sortrecd.pd;
826 4 =              sortarray(y).cns = sortrecd.cns;
827 4 =          end sortmds;

```

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=
=
=
828 3 = call print$sorted(mdcnt,scdcnt); /* Print the sorted list */
829 3 = if constat then do; /* want to loop again ? */
831 4 = repeat = false;
832 4 = chr = conin; /* Swallow stop char */
833 4 = end;
834 3 = if repeat then do; /* Keep looping, delay first */
836 4 = if ((mdcnt / 2) >= 20) then
837 4 = call disp$me,ahdr;
838 4 = call delay(intval);
839 4 = end;
840 3 = else do;
841 4 = if not(specified) then /* Get back to main menu*/
842 4 = call cons$wait;
= else /* Skip menu, -> system */
843 4 = call terminate;
844 4 = end;
845 3 = end; /*while*/
=
846 2 = end display$mem;
=
=
847 1 = dcl qlist (64) structure (
= name (8) byte,
= nmsgs word,
= msglen word,
= msgcnt word,
= nq word,
= dq word,
= owner (8) byte,
= flags byte);
=
=
848 1 = print$qhdr: procedure; /* Print Queue Heading */
=
849 2 = call home; call clear;
851 2 = call print$buffer(.( " NAME NMSGs MSGLEN MSGCNT $" ));
852 2 = call print$buffer(.( " READER WRITER MIX-OWNER FLAGS $" ));
853 2 = call crlf;
854 2 = call print$buffer(.( " -----" ));
855 2 = call print$buffer(.( " -----" ));
856 2 = call crlf;
=
857 2 = end print$qhdr;
=
=
858 1 = display$flag$status; /* Print Queue Flag Status*/
= procedure(flag);
859 2 = dcl prev boolean;
860 2 = dcl (i,flag,cnt) byte;
=
861 2 = prev = false;
862 2 = i = 1;
863 2 = cnt = 0;
=
864 2 = do while (i <= maxqflags) ;

```

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865 3 = if (flag and i) (> 0) then do;
866 4 =     if prev then do;                               /* Take care of formatting */
869 5 =         call co(",");
870 5 =         cnt = cnt + 1;                               /* Count all chars */
871 5 =         end;
872 4 =         call display$hex$byte(i);
873 4 =         cnt = cnt + 2;
874 4 =         prev = true;
875 4 =         end;
876 3 =     i = i*2;                                       /* Flays are 1 bit each */
877 3 =     end;
878 2 =     do i = cnt to 14;                               /* Clear previous line's flays */
879 3 =         call co(" ");
880 3 =     end;

881 2 = end display$flag$status;

882 1 = display$queue:
      = procedure;
883 2 = ucl temp byte,
      =     n integer,
      =     (qdcnt,cont) byte,
      =     (chr,i) byte;

884 2 = if not(specified) then do;
886 3 = call crlf;
887 3 = call print$buffer(,(CR,LF," Continuous Display? $"));
888 3 = chr = conin;
889 3 = if (chr = "y") or (chr = "Y") then do;
891 4 =     repeat = true;
892 4 =     call print$buffer(,(CR,LF,"Time Interval (in hex) : $"));
893 4 =     intrval = get$intrval;
894 4 =     end;
895 3 = end;

896 2 = temp = true;
897 2 = call print$qhdr;

898 2 = do while ( temp or repeat);
899 3 = temp = false;
900 3 = qdcnt = 0;
901 3 = call home; call skip$lines(2);

903 3 = getqueues:
      = disable;                                       /* Begin Critical Section */
904 3 = qd$ptr.offset = sd.qlr;
905 3 = do while ((qdcnt < maxqueues) and (qd$ptr.offset <> 0)) ;
906 4 =     do i = 0 to pnamsiz-1;
907 5 =         qlist(qdcnt).name(i) = qd.name(i);
908 5 =         end;
909 4 =         qlist(qdcnt).nmsgs = qd.nmsgs;
910 4 =         qlist(qdcnt).msglen = qd.msglen;
911 4 =         qlist(qdcnt).msgcnt = qd.msgcnt;
912 4 =         qlist(qdcnt).nq = qd.nq;
913 4 =         qlist(qdcnt).dq = qd.dq;
914 4 =         if ((qd.flays mod 2) (> 0)) then do;       /* It's an MX queue */

```

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916 5 =      pd$ptr.offset = qd.bufferi;
917 5 =      if pd$ptr.offset <> 0 then                /* It has an owner */
918 5 =          do i = 0 to pnamsiz -1;
919 6 =          qlist(qdcnt).owner(i) = pd.name(i);
920 6 =          end;
          =      else                                /* No one owns it now */
921 5 =          do i = 0 to pnamsiz-1;                /* Print blanks */
922 6 =          qlist(qdcnt).owner(i) = ' ';
923 6 =          end;
924 5 =      end;
          =      else                                /* it's not an MX queue*/
925 4 =          do i = 0 to pnamsiz-1;
926 5 =          qlist(qdcnt).owner(i) = ' ';
927 5 =          end;
928 4 =          qlist(qdcnt).flags = qd.flags;
929 4 =          qdcnt = qdcnt + 1;
930 4 =          qd$ptr.offset = qd.link;
931 4 =          end;
932 3 =      enable;                                /* End critical section */
          =
933 3 =      print$qds:                                /* Print the Queue info */
          =          do i = 0 to qdcnt-1;
934 4 =          call print$buffer(.( ' $'));
935 4 =          call print$infield(11,'1',pnamsiz,@qlist(i).name); /* Queue Name */
936 4 =          call print$hex$word(8,'1',qlist(i).nmsgs);      /* Number of Msgs*/
937 4 =          call print$hex$word(8,'1',qlist(i).msglen);     /* Message Length*/
938 4 =          call print$hex$word(7,'1',qlist(i).msgcnt);    /* Message Count */
939 4 =          pd$ptr.offset = qlist(i).dq;
940 4 =          if pd$ptr.offset <> 0 then
941 4 =              call print$infield(9,'1',pnamsiz,@pd.name);
          =          else
942 4 =              call print$buffer(.( ' $'));
943 4 =          pd$ptr.offset = qlist(i).nq;
944 4 =          if pd$ptr.offset <> 0 then
945 4 =              call print$infield(9,'1',pnamsiz,@pd.name);
          =          else
946 4 =              call print$buffer(.( ' $'));
947 4 =          call print$infield(10,'1',pnamsiz,@qlist(i).owner); /* Print it */
948 4 =          call display$flag$status(qlist(i).flags);      /* Print Flag Value*/
949 4 =          call crlf;
950 4 =          end;
          =
          =      /* Print the Flag Key */
951 3 =      call print$buffer(.( ' Flag Values : 1 = MX, 2 = NO DELETE, $'));
952 3 =      call print$buffer(.( '4 = NOT USER WRITEABLE, $'));
953 3 =      call crlf;
954 3 =      call print$buffer(.( ' 8 = RSP, 10 = FROM QD TABLE, 20 = RPL QUEUE, $'));
955 3 =      call print$buffer(.( '40 = DEVICE QUEUE.$'));
956 3 =      qdcnt = qdcnt - 1;                        /* To normalize */
          =
957 3 =      if (qdcnt < 22) then do;
959 4 =          do i = qdcnt to 17;
960 5 =          call print$buffer(.(CCR,LF,
          =
961 5 =          end;
962 4 =      end;
          =

```

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963 3 = if constat then do; /* Check for continue */
965 4 = repeat = false;
966 4 = chr = conin;
967 4 = end;
968 3 = if repeat then do; /* keep going, delay first */
970 4 = call delay(interval);
971 4 = if (qcont >= 19) then do;
973 5 = call print$chr;
974 5 = end;
975 4 = end;
976 3 = else do; /* Stop display */
977 4 = if not(specified) then /* Go to main menu */
978 4 = call const$wait;
979 4 = else /* Go back to system */
980 4 = call terminate;
981 3 = end; /* while loop */
982 2 = end display$queue;
983 1 = dcl driv$letter (*) byte data ("ABCDEFGHJKLMNP");
984 1 = display$gen: procedure(vers); /* Overview Display Routine*/
985 2 = dcl vers byte;
986 2 = dcl (count, qsize) word;
987 2 = dcl mode word;
988 2 = call home; call clear;
990 2 = pd$pointer = get$currpd; /* Get PD for Current Process*/
991 2 = vccb$ptr.offset = sd.ccb + (pd.cns + size(vccb));
992 2 = call crlf; call print$infield(42, "r", 17, 0("Default Disk = "));
994 2 = call co(driv$letter(pd.dsk));
995 2 = call co(":");
996 2 = call crlf; call print$infield(42, "r", 24, 0("Default User Number = "));
998 2 = call display$hex$byte(pd.user);
999 2 = call crlf; call print$infield(42, "r", 20, 0("Default Printer = "));
1001 2 = if (vers) then /* It's MPH-86 */
1002 2 = call display$hex$byte(pd.lst - sd.ncondav);
1003 2 = else /* It's Concurrent */
1004 2 = call display$hex$byte(pd.lst);
1004 2 = call crlf; call print$infield(42, "r", 28, 0("Current Virtual Console = "));
1006 2 = call display$hex$byte(pd.cns);
1007 2 = if (not vers) then do;
1009 3 = call crlf; call print$infield(42, "r", 20, 0("Background Mode = "));
1011 3 = mode = (vccb.state);
1012 3 = if (mode >= 0) and (mode <= 0200h) then do;
1014 4 = if (mode mod 2) = 0 then
1015 4 = call print$buffer(, ("DYNAMIC "));
else

```

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1016 4 =      call print$buffer(.(("BUFFERED$"));
1017 4 =      end;
1018 3 =      else call print$buffer(.(("OTHER $"));
1019 3 =      end;
      =
1020 2 =      if (not vers) then do;
1022 3 =      call crlf; call print$infield(42,"r",17,@("Buffer Space = "));
1024 3 =      call display$hex$word(vccb.maxbufsiz);
1025 3 =      call co("K");
1026 3 =      end;
      =
1027 2 =      call crlf;
1028 2 =      call print$infield(42,"r",31,@("Maximum Memory Per Process = "));
1029 2 =      call display$hex$word(sd.mmp);
1030 2 =      call print$buffer(.((" PARAS$"));
      =
1031 2 =      call crlf; call print$infield(42,"r",31,@("Number of Virtual Consoles = "));
1033 2 =      call display$hex$byte(sd.ncns);
      =
1034 2 =      call crlf; call print$infield(42,"r",23,@("Number of Printers = "));
1036 2 =      call display$hex$byte(sd.nlst);
      =
1037 2 =      call crlf; call print$infield(42,"r",20,@("Temporary Drive = "));
1039 2 =      call co(driv$letter(sd.teapdisk));
1040 2 =      call co(":");
      =
1041 2 =      call crlf; call print$infield(42,"r",17,@("System Drive = "));
1043 2 =      call co(driv$letter(sd.srchdisk));
1044 2 =      call co(":");
      =
1045 2 =      call crlf; call print$infield(42,"r",21,@("Ticks Per Second = "));
1047 2 =      call display$hex$byte(sd.tickspersec);
      =
1048 2 =      call crlf; call print$infield(42,"r",20,@("Day File Option = "));
1050 2 =      if sd.dayfile = 0 then
1051 2 =          call print$buffer(.(("NO $"));
      =      else
1052 2 =          call print$buffer(.(("YES$"));
      =
1053 2 =      call crlf; call print$infield(42,"r",23,@("BOOS Compatability = "));
1055 2 =      if sd.cmod <> 0 then
1056 2 =          call print$buffer(.(("YES$"));
      =      else
1057 2 =          call print$buffer(.(("NO $"));
      =
1058 2 =      call crlf; call print$infield(42,"r",20,@("Number of Flags = "));
1060 2 =      call display$hex$byte(sd.nflags);
      =
1061 2 =      call crlf; call print$infield(42,"r",27,@("Free Queue Descriptors = "));
1063 2 =          pd$ptr.offset = sd.qul;
1064 2 =          count = 0;
1065 2 =          do while pd$ptr.offset <> 0;
1066 3 =              count = count + 1;
1067 3 =              pd$ptr.offset = pd.link;
1068 3 =          end;
1069 2 =      call display$hex$byte(count);

```

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=
1070 2 = call crlf; call print$infield(42,"r",22,0("Free Queue Buffer = "));
1072 2 = md$ptr.offset = .sd.qmau(0);
1073 2 = sat$ptr.segment = md.start; /* start of qbuffer SAT */
1074 2 = sat$ptr.offset = size(sat); /* skip 1st 5 bytes booting */
1075 2 = qsize = 0;
1076 2 = do while sat.start <> 0; /* byte offset for queue buffer */
1077 3 = if sat.numallocs = 0 then /* does anyone own this piece? */
1078 3 = qsize = qsize + sat.len;
1079 3 = sat$ptr.offset = size(sat) + sat$ptr.offset; /* Get next entry */
1080 3 = end;
1081 2 = call display$hex$word(qsize);
1082 2 = call print$buffer(," BYTES");
=
1083 2 = call crlf; call print$infield(42,"r",29,0("Free Process Descriptors = "));
1085 2 = pd$ptr.offset = sd.pul;
1086 2 = count = 0;
1087 2 = do while pd$ptr.offset <> 0;
1088 3 = count = count + 1;
1089 3 = pd$ptr.offset = pd.link;
1090 3 = end;
1091 2 = call display$hex$byte(count);
=
1092 2 = call crlf; call print$infield(42,"r",28,0("Free Memory Descriptors = "));
1094 2 = pd$ptr.offset = sd.mdul;
1095 2 = count = 0;
1096 2 = do while pd$ptr.offset <> 0;
1097 3 = count = count + 1;
1098 3 = pd$ptr.offset = pd.link;
1099 3 = end;
1100 2 = call display$hex$byte(count);
=
1101 2 = call crlf;
1102 2 = if not(specified) then
1103 2 = call cons$wait;
=
1104 2 = call terminate;
=
1105 2 = end displaygen;
=
=

```

```

/*****

```

```

MAIN PROGRAM

```

```

*****/

```

```

1106 1 pl$start: procedure public;
1107 2 dcl (i,version) byte,
ver address,
validchar byte;
1108 2 dcl bdosversion lit "30h"; /* BQDS 3.0 or later */

```

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```

1109 2      dcl osproduct lit "14h";          /* CCP/M-86      */
1110 2      dcl mpmproduct lit "11h";        /* MP/M-86      */

1111 2      dcl vers$ptr$pointer pointer;
1112 2      dcl vers$ptr$ptr structure (
           offset word,
           segment word) at (@vers$ptr$pointer);
1113 2      dcl (doscan,chr) byte;

1114 2      var = get$version;
1115 2      if low(ver) < bdosversion or
           ( (high(ver) <> osproduct) and (high(ver) <> mpmproduct) ) then
1116 2      do;
1117 3          call print$buffer (."Requires Concurrent CP/M-86 or MP/M-86.");
1118 3          call reboot;                    /* use CP/M exit */
1119 3      end;
           else
1120 2      do;
1121 3          version = nigh(ver) mod 2;          /* 0 = CCP/M-86, 1 = MP/M-86 */
1122 3          sysdat$pointer = get$sysdat;
1123 3          flag$ptr.segment,md$ptr.segment,ms$ptr.segment,
           sat$ptr.segment,qd$ptr.segment,pd$ptr.segment,vccb$ptr.segment
           = sysdat$ptr.segment;

1124 3          doscan = true;
1125 3          repeat = false;
1126 3          specified = false;                /* Default */
1127 3          intrval = 01h;                    /* Default */

1128 3          do while doscan ;                 /* Scan for option */
1129 4              if buff(0) <> 0 then do;      /* Loop until Q(uit)*/
1131 5                  i = 1;                    /* Command line arg */
1132 5                  do while buff(i) = " ";   /* was used. Get it.*/
1133 6                      i = i + 1;            /* Skip intervening blanks */
1134 6                  end;
1135 5                  if buff(i) = lbracket then
1136 5                      i = i + 1;

1137 5                  else
1138 5                      call print$opt$err;
1139 5                      chr = buff(i);        /* 1st arg */
1140 5                      i = i + 1;
1141 5                      if (buff(i) = ",") or (buff(i) = " ") or (buff(i) = "]") then
1142 5                          i = i + 1;        /* Skip blank or comma */

1142 5                      else
1143 5                          call print$opt$err;
1144 5                          if (buff(i-1) <> rbracket) then do;    /* Keep going, more args*/
1145 6                              if (buff(i) = "c") or (buff(i) = "C") then do;
1147 7                                  repeat = true;
1148 7                                  i = i + 1;
1149 7                                  end;
1150 6                              else
1151 6                                  call print$opt$err;
1152 6                                  if (buff(i) <> rbracket) then do;    /* Still more ?*/
1153 7                                      if (buff(i) = " ") or (buff(i) = ",") then do;
1154 8                                          i = i + 1;
1155 8                                          end;
1156 8                                      else

```

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1157 7          call printopt$pr;
                                /* Get ascii hex interval data */
1158 7          interval = aschex(buff(i));
1159 7          i = i + 1;
1160 7          if (buff(i) <> rbracket) then do;
1162 8              interval = shl(interval,4);
1163 8              interval = interval + aschex(buff(i));
1164 8          end;
1165 7          /* Now convert to system ticks */
1166 7          interval = interval * sd.tickspersec;
1167 6          end;

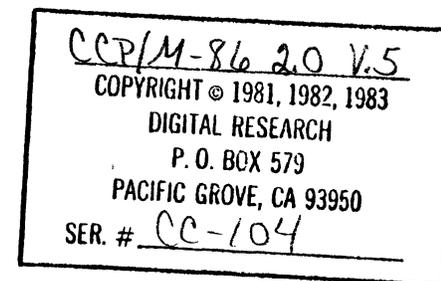
1168 5          buff(0) = 0;
1169 5          specified = true;
1170 5          end;
1171 4          else do;
1172 5              call disp$mainhdr;
1173 5              chr = conin;
1174 5          end;

1175 4          validchar = false;
1176 4          do while not(validchar);
1177 5              validchar = true;
1178 5              if (chr = 'h') or (chr = 'H') then do;
1180 6                  call display$help;
1181 6              end;
1182 5              else if (chr = 'm') or (chr = 'M') then do;
1184 6                  call display$mem;
1185 6              end;
1186 5              else if (chr = 'o') or (chr = 'O') then do;
1188 6                  call display$gen(version);
1189 6              end;
1190 5              else if (chr = 'e') or (chr = 'E') then do;
1192 6                  call terminate;
1193 6              end;
1194 5              else if (chr = 'p') or (chr = 'P') then do;
1196 6                  call display$proc(0);
1197 6              end;
1198 5              else if (chr = 'q') or (chr = 'Q') then do;
1200 6                  call display$queue;
1201 6              end;
1202 5              else if (chr = 'u') or (chr = 'U') then do;
1204 6                  call display$proc(1);
1205 6              end;
1206 5              else do;
1207 6                  /* Incorrect character was used */
                  validchar = false;

1208 6              if not(specified) then do;
1210 7                  /* Invalid char was from menu */
                  if (chr = CR) then
1211 7                      call print$buffer(,"          ->");
1212 7                      call print$buffer(," Invalid Option.$");
1213 7                      call co(CR);
1214 7                      /* Move left to beginning of line */
1215 7                      call print$buffer(,"          ->");
1216 7                      chr = conin;
1217 7                      /* Get another char, hopefully a good one */
                  end;

1218 6              else
1219 6                  /* Invalid char was from the command line */

```



```
1217 6      call print$opt$err;
1218 6      end;
1219 5      end;
1220 4      end;
1221 3      end;
1222 2      end plmstart;
1223 1      end status;
```

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CROSS-REFERENCE LISTING

DEFN	ADDR	SIZE	NAME, ATTRIBUTES, AND REFERENCES
127	0021H	1	ABORT. . . . . BYTE MEMBER(CPD)
281	03CFH	68	ASCEX. . . . . PROCEDURE BYTE STACK=0004H 307 311 1158 1163
145	0000H	2	ATTACH. . . . . WORD MEMBER(CVCCB)
1108			BDOSVERSION. . . . . LITERALLY 1115
2			BDUEAN. . . . . LITERALLY 859
145	000CH	1	BTMP. . . . . BYTE MEMBER(CVCCB)
3	0000H	128	BUFF. . . . . BYTE ARRAY(128) EXTERNAL(O) 1129 1132 1135 1158 1140 1143 1145
130	0014H	2	BUFFER. . . . . WORD MEMBER(CD) 916
173	0004H	2	BUFFERADR. . . . . WORD PARAMETER AUTOMATIC 174 175
104	0054H	2	CCB. . . . . WORD MEMBER(CD) 991
123	0008H	2	CCB. . . . . WORD MEMBER(XINIT)
118			CCBSTRUCTURE. . . . . LITERALLY 145
119			CCBTAIL1. . . . . LITERALLY 145
120			CCBTAIL2. . . . . LITERALLY 145
121			CFCOMPC. . . . . LITERALLY
121			CFCONOUT. . . . . LITERALLY
121			CFLISTCP. . . . . LITERALLY
121			CFSWITCHS. . . . . LITERALLY
121			CFVOUT. . . . . LITERALLY
472	04AAH	1	CHAR. . . . . BYTE 478 479 574
165	0004H	1	CHAR. . . . . BYTE PARAMETER AUTOMATIC 166 167
196	0000H	1	CHAR. . . . . BYTE BASED(DATAADDR) 205
155	0004H	1	CHAR. . . . . BYTE PARAMETER AUTOMATIC 156 157
683	14F1H	1	CHR. . . . . BYTE 888 889 966
1113	14F7H	1	CHR. . . . . BYTE 1138 1173 1178 1182 1186 1190 1194 1198 1202 1210 1215
303	00E6H	1	CHR. . . . . BYTE 304 305 307 311 315 316
277	00E5H	1	CHR. . . . . BYTE 279
683	0E2AH	1	CHR. . . . . BYTE 687 688 832
303	00E7H	1	CHR1. . . . . BYTE 308 309 311 312
258	0355H	36	CLEAR. . . . . PROCEDURE STACK=000EH 321 351 387 594 697 850 989
89	00D3H	6	CLEARSEQ. . . . . BYTE ARRAY(6) INITIAL 260 261
104	0090H	1	CNOD. . . . . BYTE MEMBER(CD) 1055
589	000EH	1	CNS. . . . . BYTE MEMBER(SORTRECD) 808 826
590	000EH	1	CNS. . . . . BYTE MEMBER(SORTARRAY) 613 615 629 631 729 755 808 817
591	000EH	1	CNS. . . . . BYTE MEMBER(SHAREARRAY) 648 655 776
468	0000H	1	CNS. . . . . BYTE MEMBER(POLIST) 497 557
127	0020H	1	CNS. . . . . BYTE MEMBER(CPD) 497 543 729 776 991 1006
602	0006H	1	CNT. . . . . BYTE PARAMETER AUTOMATIC 603 605 608 621 625 628 629 631
860	14EDH	1	CNT. . . . . BYTE 632 633 634 673 675
155	013CH	19	CO. . . . . BYTE 863 870 873 878
			PROCEDURE STACK=000AH 190 191 202 205 210 217 218 232
			237 249 254 273 454 869 879 994 995 1025 1039 1040 1043 1044
			1213
145	0006H	1	COLUMN. . . . . BYTE MEMBER(CVCCB)
152	012DH	15	CONIN. . . . . PROCEDURE BYTE STACK=0008H 279 304 308 312 478 574 687
			832 888 966 1173 1215
127	0022H	2	CONMODE. . . . . WORD MEMBER(CPD)

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162	015EH	15	CONSTAT. . . . .	PROCEDURE	BYTE	STACK=0008H		571	829	963										
276	0380H	18	CONSWAIT . . . . .	PROCEDURE	STACK=000EH		382	584	842	973	1103									
683	0E27H	1	CONT . . . . .	BYTE	722	723	725	742	773	774	715	734								
883	14F0H	1	CONT . . . . .	BYTE																
145	0022H	2	COSLEEP. . . . .	WORD	MEMBER(COCP)															
986	0086H	2	COUNT. . . . .	WORD	1064	1066	1059	1086	1088	1091	1095	1097	1100							
419	00E8H	1	COUNT. . . . .	BYTE																
91			CR . . . . .	LITERALLY	190	278	305	309	345	477	482	568	597	599	627					
					638	663	676	686	691	887	892	950	1210	1213						
189	01DCH	17	CRLF . . . . .	PROCEDURE	STACK=000EH			322	323	325	326	328	330	332	334					
					336	338	340	341	346	352	353	354	356	357	359	361	363	365		
					366	368	369	371	373	374	376	373	330	339	392	476	556	609		
					644	853	856	886	949	953	992	996	999	1004	1009	1022	1027	1031		
					1034	1037	1041	1045	1048	1053	1058	1061	1070	1083	1092	1101				
122			CSMABORT . . . . .	LITERALLY																
122			CSMBACKGROUND. . . . .	LITERALLY																
122			CSMBUFFERED. . . . .	LITERALLY																
122			CSMCTRL0 . . . . .	LITERALLY																
122			CSMCTRLP . . . . .	LITERALLY																
122			CSMCTRLS . . . . .	LITERALLY																
122			CSMFILEFULL. . . . .	LITERALLY																
122			CSMNSWITCH. . . . .	LITERALLY																
122			CSMPURGING . . . . .	LITERALLY																
122			CSMSUSPEND . . . . .	LITERALLY																
193	0004H	4	DATADDR. . . . .	POINTER	PARAMETER	AUTOMATIC		194	196	197	205									
197	0004H	4	DATPTP . . . . .	STRUCTURE	AT	AUTOMATIC	206													
104	004FH	1	DAYFILE. . . . .	BYTE	MEMBER(SD)	1050														
148	000EH	2	DBLK . . . . .	WORD	MEMBER(CDA)															
2			DCL. . . . .	LITERALLY																
148	000CH	2	DCHT . . . . .	WORD	MEMBER(CDA)															
169	0180H	16	DELAY. . . . .	PROCEDURE	STACK=000AH		578	838	970											
148	0012H	8	DEPASSWORD . . . . .	BYTE	ARRAY(8)	MEMBER(CDA)														
591	000AH	1	DISK . . . . .	BYTE	MEMBER(SHAREARRAY)		649	666	777											
858	16D6H	107	DISPLAYFLAGSTATUS. . . . .	PROCEDURE	STACK=0016H		948													
984	1491H	1006	DISPLAYGEN . . . . .	PROCEDURE	STACK=001EH		1188													
349	0552H	280	DISPLAYHELP. . . . .	PROCEDURE	STACK=001CH		1180													
215	0264H	44	DISPLAYHEXBYTE . . . . .	PROCEDURE	STACK=0010H		222	223	234	461	872	998	1002	1003						
					1006	1033	1036	1047	1060	1069	1091	1100								
220	0290H	23	DISPLAYHEXWORD . . . . .	PROCEDURE	STACK=0016H		251	1024	1029	1081										
681	10CEH	1499	DISPLAYMEM . . . . .	PROCEDURE	STACK=002CH		1184													
470	094DH	872	DISPLAYPROC. . . . .	PROCEDURE	STACK=002FH		1196	1204												
882	1741H	848	DISPLAYQUEUE . . . . .	PROCEDURE	STACK=0024H		1200													
319	046FH	209	DISPMAINHDR. . . . .	PROCEDURE	STACK=001CH		1172													
592	0C85H	53	DISPMEMHDR . . . . .	PROCEDURE	STACK=0012H		698	837												
416	07BEH	399	DISPRESOURCE . . . . .	PROCEDURE	STACK=0028H		563													
396	06D5H	233	DISPSTATUS . . . . .	PROCEDURE	STACK=001EH		562													
104	006AH	2	DLR. . . . .	WORD	MEMBER(SD)	437														
148	0002H	2	DMAOFST. . . . .	WORD	MEMBER(CDA)															
148	0004H	2	DMASEG . . . . .	WORD	MEMBER(CDA)															
123	0002H	1	DOOR . . . . .	BYTE	MEMBER(XINIT)															
1113	14F6H	1	DOSCAN . . . . .	BYTE	1124	1128														
148	0000H	2	DPARAM . . . . .	WORD	MEMBER(CDA)		511	518	519											
847	0010H	2	DQ . . . . .	WORD	MEMBER(QLIST)		913	939												
130	0012H	2	DQ . . . . .	WORD	MEMBER(QD)	913														
983	0010H	16	DRIVLETTER . . . . .	BYTE	ARRAY(16)	DATA	994	1059	1043											
104	006CH	2	DRL. . . . .	WORD	MEMBER(SD)	439														
127	0012H	1	DSK. . . . .	BYTE	MEMBER(PD)	994														

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			938	939	940	947	948	959												
142	0002H	1	IGNORE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	0000H	2	INFO	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	0000H	2	INFO	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	0000H	2	INFO	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	0000H	2	INFO	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
86	0002H	2	INTERVAL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
225	0006H	1	JUSTIFY	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
193	0006H	1	JUSTIFY	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
241	0006H	1	JUSTIFY	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
603	0E21H	1	K	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
473	04ACH	1	K	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
83	00CEH	1	LBRACKET	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
123	000AH	2	LCB	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
104	0086H	4	LCB	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
124			LCBSTRUCTURE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
104	008AH	1	LCKMAX	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
127	0014H	1	LDSK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
589	000CH	2	LEN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
193	0008H	1	LEN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
590	000CH	2	LEN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
139	0002H	2	LEN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
591	000CH	2	LEN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
136	0004H	2	LENGTH	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
133	0004H	2	LENGTH	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
92			LF	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
127	0000H	2	LINK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
133	0000H	2	LINK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
136	0000H	2	LINK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
130	0000H	2	LINK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
469	0030H	128	LINKLIST	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2			LIT	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
470	0004H	1	LNKFIELD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
127	0024H	1	LST	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
104	0052H	2	LUL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
127	0015H	1	LUSER	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
603	0E1FH	1	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
104	0076H	2	MAIL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
136	0008H	2	MAU	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
145	0010H	2	MAXBUFSTZ	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
79	00C3H	1	MAXMD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
78	00C2H	1	MAXPD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80	00C4H	1	MAXQFLAGS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
82	00CDH	1	MAXQUEUES	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
133	0000H	10	MD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
682	0E23H	1	MDCNT	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
131	0014H	4	MDPOINTER	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
132	0014H	4	MDPTR	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
93			MDSTRUCTURE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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104	0058H	2	MDUL . . . . .	WORD MEMBER(SD)	1094														
127	0016H	2	MEM. . . . .	WORD MEMBER(PD)	495	709	721	772											
104	005AH	2	MFL. . . . .	WORD MEMBER(SD)	747														
145	0008H	1	MIMIC. . . . .	BYTE MEMBER(VCCB)															
104	004CH	2	MNK. . . . .	WORD MEMBER(SD)	1029														
987	003AH	2	MODE . . . . .	WORD	1011	1012	1014												
104	0046H	1	MODULEMAP. . . . .	BYTE MEMBER(SD)															
4	0000H		MON1 . . . . .	PROCEDURE EXTERNAL(1) STACK=0000h					150	157	157	171	175	181					
8	0000H		MON2 . . . . .	PROCEDURE BYTE EXTERNAL(2) STACK=0000h						153	160	163							
12	0000H		MON3 . . . . .	PROCEDURE WORD EXTERNAL(3) STACK=0000h						173									
16	0000H		MON4 . . . . .	PROCEDURE POINTER EXTERNAL(4) STACK=0000h							184	187							
1110			MPMPRODUCT . . . . .	LITERALLY	1115														
104	0040H	2	MPMSEG . . . . .	WORD MEMBER(SD)															
104	007CH	2	MPMVERNUM. . . . .	WORD MEMBER(SD)															
136	0000H	10	MS . . . . .	STRUCTURE BASED(MSPOINTER)					726	735	735	736	737	738	739				
					741	779	785	787	788	789	790	791	793						
847	000CH	2	MSGCNT . . . . .	WORD MEMBER(QLIST)					911	938									
130	0016H	2	MSGCNT . . . . .	WORD MEMBER(QD)	911														
847	000AH	2	MSGLEN . . . . .	WORD MEMBER(QLIST)					910	937									
130	000EH	2	MSGLEN . . . . .	WORD MEMBER(QD)	910														
130	0018H	2	MSGOUT . . . . .	WORD MEMBER(QD)															
145	0009H	1	MSOURCE. . . . .	BYTE MEMBER(VCCB)															
134	0018H	4	MSPOINTER. . . . .	POINTER	135	136	726	733	735	736	737	738	739	741	779				
					785	787	788	789	790	791	793								
135	0018H	4	MSPTR. . . . .	STRUCTURE AT					721	735	739	772	788	791	1123				
94			MSSTRUCTURE. . . . .	LITERALLY	136														
148	0011H	1	MULTCNT. . . . .	BYTE MEMBER(CUDA)															
683	00B0H	2	N. . . . .	INTEGER	704	711	759	764											
473	04ADH	1	N. . . . .	BYTE	491	493	494	497	499	501	502	503	506	511	518	519			
					523	536	543	546	549	554	565	567							
883	00B4H	2	N. . . . .	INTEGER															
590	0000H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(SORTARRAY)							612	628	731	750	804	813			
					822														
591	0000H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(SHAREARRAY)							647	664	783						
589	0000H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(SORTRECD)						804	822								
847	0000H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(QLIST)						907	935								
468	0001H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(POLIST)						499	559								
130	0006H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(QD)					447	451	907								
127	0008H	8	NAME . . . . .	BYTE ARRAY(8) MEMBER(PD)					499	731	783	919	941	945					
123	0006H	1	NCCB . . . . .	BYTE MEMBER(XTNT)															
104	0049H	1	NCCB . . . . .	BYTE MEMBER(SD)															
145	0007H	1	NCHAR. . . . .	BYTE MEMBER(VCCB)															
104	00B5H	1	NCINDEV. . . . .	BYTE MEMBER(SD)															
104	0047H	1	NCNS . . . . .	BYTE MEMBER(SD)	1033														
104	00B3H	1	NCONDEV. . . . .	BYTE MEMBER(SD)	1002														
127	0010H	1	NET. . . . .	BYTE MEMBER(PD)															
130	0002H	1	NET. . . . .	BYTE MEMBER(QD)															
104	004AH	1	NFLAGS . . . . .	BYTE MEMBER(SD)	532	1060													
123	0007H	1	NLST . . . . .	BYTE MEMBER(XTNT)															
104	0048H	1	NLST . . . . .	BYTE MEMBER(SD)	1036														
104	0084H	1	NLSTDEV. . . . .	BYTE MEMBER(SD)															
847	0008H	2	NMSG. . . . .	WORD MEMBER(QLIST)					909	936									
130	0010H	2	NMSG. . . . .	WORD MEMBER(QD)	909														
2			NO . . . . .	LITERALLY															
473	04AEH	1	NOTFOUND . . . . .	BYTE	525	527	533	537											
419	00E9H	1	NOTFOUND . . . . .	BYTE															
847	000EH	2	NO . . . . .	WORD MEMBER(QLIST)					912	943									

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130	0014H	2	NO . . . . .	WORD MEMBER(QD)	912														
104	004EH	1	NSLAVES. . . . .	BYTE MEMBER(CSD)															
281	0004H	1	NUM. . . . .	BYTE PARAMETER AUTOMATIC		282	283	285	288	290	293	295	297						
				300															
169	0004H	2	NUM. . . . .	WORD PARAMETER AUTOMATIC		170	171												
139	0004H	1	NUMALLOCS. . . . .	BYTE MEMBER(CSAT)	1077														
270	0004H	1	NUMLINES . . . . .	BYTE PARAMETER AUTOMATIC		271	272												
123	0005H	1	NVCNS. . . . .	BYTE MEMBER(XINIT)															
418	002EH	2	OFFS. . . . .	WORD															
126	0000H	2	OFFSET . . . . .	WORD MEMBER(PDPTR)	492	493	528	547	707	708	711	714	720						
				724	762	763	764	766	771	916	917	939	940	943	944	1063	1065		
				1067	1085	1087	1089	1094	1095	1098									
1112	0000H	2	OFFSET . . . . .	WORD MEMBER(VERSSTRPTR)															
123	0000H	2	OFFSET . . . . .	WORD MEMBER(XINITPTR)															
197	0000H	2	OFFSET . . . . .	WORD MEMBER(DATPTR)	206														
129	0000H	2	OFFSET . . . . .	WORD MEMBER(QDPTR)	446	450	904	905	930										
147	0000H	2	OFFSET . . . . .	WORD MEMBER(UDAPTR)	510	516													
144	0000H	2	OFFSET . . . . .	WORD MEMBER(VCCPTR)	991														
141	0000H	2	OFFSET . . . . .	WORD MEMBER(FLAGPTR)	524	531													
138	0000H	2	OFFSET . . . . .	WORD MEMBER(SATPTR)	1074	1079													
135	0000H	2	OFFSET . . . . .	WORD MEMBER(ASPTR)	721	736	739	772	788	791									
132	0000H	2	OFFSET . . . . .	WORD MEMBER(MOPTR)	726	747	748	757	779	1072									
103	0000H	2	OFFSET . . . . .	WORD MEMBER(SYSDATPTR)															
104	008BH	1	OPMAX. . . . .	BYTE MEMBER(CSD)															
127	001CH	1	ORG. . . . .	BYTE MEMBER(PD)															
130	0003H	1	ORG. . . . .	BYTE MEMBER(QD)															
1109			OSPRODUCT. . . . .	LITERALLY	1115														
847	0012H	8	OWNER. . . . .	BYTE ARRAY(CB) MEMBER(QLTST)		919	922	926	947										
127	001EH	2	PARENT . . . . .	WORD MEMBER(PD)															
20	0002H	285	PATCH. . . . .	PROCEJRE STACK=0002H															
145	000AH	1	PC . . . . .	BYTE MEMBER(VCCB)															
101			PCM11. . . . .	LITERALLY															
101			PCMCTL. . . . .	LITERALLY															
101			PCMCTLO. . . . .	LITERALLY															
101			PCMCTLS. . . . .	LITERALLY															
101			PCMR0UT. . . . .	LITERALLY															
101			PCMRSX . . . . .	LITERALLY															
127	0000H	48	PD . . . . .	STRUCTURE BASED(PDPOINTER)		495	497	499	501	502	503	504							
				506	509	515	543	547	709	714	721	729	731	766	772	776	777		
				778	783	919	941	945	991	994	998	1002	1003	1006	1067	1089	1098		
590	000AH	2	PD . . . . .	WORD MEMBER(SORTARRAY)		616	632	724	753	807	816	825							
589	000AH	2	PD . . . . .	WORD MEMBER(SORTRECD)		807	825												
142	0000H	2	PD . . . . .	WORD MEMBER(FLAG)	528														
682	0E24H	1	PDCNT. . . . .	BYTE	701	702	705	708	712	716	719	760	763	765	768	770			
148	001AH	1	PDCNT. . . . .	BYTE MEMBER(UDA)															
97			PDHOR. . . . .	LITERALLY	127														
468	00EAH	960	PDLIST . . . . .	STRUCTURE ARRAY(64)		497	499	501	502	503	505	511	518	519					
				523	536	543	557	559	560	561	562	563							
125	000CH	4	PDPOINTER. . . . .	POINTER	126	127	495	497	499	501	502	503	504	506	509				
				515	543	547	709	714	721	729	731	766	772	776	777	778	783		
				919	941	945	990	991	994	998	1002	1003	1006	1067	1089	1098			
126	000CH	4	PDPTR. . . . .	STRUCTURE AT	492	493	528	547	707	708	711	714	720	724					
				762	763	764	766	771	916	917	930	940	943	944	1063	1065	1067		
				1085	1087	1089	1094	1096	1098	1123									
98			PDSTRUCTURE. . . . .	LITERALLY	127														
100			PFACTIVE . . . . .	LITERALLY															
100			PFCHILDAORT . . . . .	LITERALLY															

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883	14EFH	1	QDCNT. . . . .	BYTE	900 905 907 909 910 911 912 913 919 922 920 928
					929 933 956 957 959 971
128	0010H	4	QDPOINTER. . . . .	POINTER	129 130 447 451 907 909 910 911 912 913 914
					916 920 930
129	0010H	4	QDPTR. . . . .	STRUCTURE AT	446 450 904 905 930 1123
107			QDSTRUCTURE. . . . .	LITERALLY	130
114			QFDEV. . . . .	LITERALLY	
110			QFHIDE. . . . .	LITERALLY	
109			QFKEEP. . . . .	LITERALLY	
108			QFMX. . . . .	LITERALLY	
113			QFRPL. . . . .	LITERALLY	
111			QFRSP. . . . .	LITERALLY	
112			QFTABLE. . . . .	LITERALLY	
847	0E2BH	1728	QLIST. . . . .	STRUCTURE ARRAY(64)	907 909 910 911 912 913 919 922 925
					928 935 936 937 938 939 943 947 948
104	0074H	2	QLR. . . . .	WORD MEMBER(SD)	904
104	0060H	8	QHAU. . . . .	WORD ARRAY(4) MEMBER(SD)	1072
106			QNAMSI2. . . . .	LITERALLY	130
145	001EH	2	QPBBUFFPTR. . . . .	WORD MEMBER(VCCB)	
145	0018H	1	QPBFAGS. . . . .	BYTE MEMBER(VCCB)	
145	001CH	2	QPBNMSG6. . . . .	WORD MEMBER(VCCB)	
145	001AH	2	QPBAADR. . . . .	WORD MEMBER(VCCB)	
145	0019H	1	QPBRESVD. . . . .	BYTE MEMBER(VCCB)	
115			QPBSTRUCTURE. . . . .	LITERALLY	
986	0088H	2	QSIZE. . . . .	WORD	1075 1078 1081
145	0002H	2	QUEUE. . . . .	WORD MEMBER(VCCB)	
104	005EH	2	QUL. . . . .	WORD MEMBER(SD)	1063
145	0028H	2	R1. . . . .	WORD MEMBER(VCCB)	
145	002AH	2	R2. . . . .	WORD MEMBER(VCCB)	
165	016DH	19	RAWCO. . . . .	PROCEDURE STACK=000AH	261 267
159	014FH	15	RAWCONIN. . . . .	PROCEDURE BYTE STACK=0008H	
84	00CFH	1	RBRACKET. . . . .	BYTE INITIAL	1143 1151 1160
149	011FH	14	REBOOT. . . . .	PROCEDURE STACK=0008H	1118
85	0000H	1	REPEAT. . . . .	BYTE	431 438 573 576 690 699 831 834 891 898 965 968
					1125 1147
127	0028H	4	RESERVED. . . . .	BYTE ARRAY(4) MEMBER(PD)	
468	000DH	2	RESOURCE. . . . .	WORD MEMBER(PDLIST)	506 511 518 519 523 536 543 563
123	0003H	2	RESRVD1. . . . .	BYTE ARRAY(2) MEMBER(XINIT)	
104	0068H	2	RLR. . . . .	WORD MEMBER(SD)	435
104	0042H	2	RSPSEG. . . . .	WORD MEMBER(SD)	
416	0004H	2	RSRCE. . . . .	WORD PARAMETER AUTOMATIC	418 426 430 435 437 439 441 446
					450 455 456 461
145	000DH	1	RSVD. . . . .	BYTE MEMBER(VCCB)	
139	0000H	5	SAT. . . . .	STRUCTURE BASED(SATPOINTER)	1074 1076 1077 1078 1079
137	001CH	4	SATPOINTER. . . . .	POINTER	138 139 1076 1077 1078
138	001CH	4	SATPTR. . . . .	STRUCTURE AT	1073 1074 1079 1123
95			SATSTRUCTURE. . . . .	LITERALLY	139
683	0082H	2	SAVMAU. . . . .	WORD	735 737 738 741 787 789 790 793
683	0E28H	1	SCDCNT. . . . .	BYTE	761 774 776 777 778 780 781 783 796 828
602	0004H	1	SCNT. . . . .	BYTE PARAMETER AUTOMATIC	603 636 641 643 655 659 661 664
					665 666 667 668 669 671 673 675
127	002LH	2	SCRATCH. . . . .	WORD MEMBER(PD)	
104	0000H	145	SD. . . . .	STRUCTURE BASED(SYSDATPOINTER)	316 435 437 439 441 492 524
					532 707 747 762 904 991 1002 1029 1033 1036 1039 1043 1047 1050
					1055 1060 1063 1072 1085 1094 1165
105	0000H	1	SDBYTE. . . . .	BYTE BASED(SYSDATPOINTER) ARRAY(1)	
148	0008H	2	SEARCHA. . . . .	WORD MEMBER(CUDA)	

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148	000AH	2	SEARCHBASE	WORD MEMBER(CUR)															
148	0007H	1	SEARCHL	BYTE MEMBER(CUR)															
126	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1123														
123	0002H	2	SEGMENT	WORD MEMBER(CVLTPTK)															
197	0002H	2	SEGMENT	WORD MEMBER(CDPTK)															
147	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	509	515													
144	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1123														
141	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1123														
138	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1073	1123													
135	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1123														
132	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1123														
103	0002H	2	SEGMENT	WORD MEMBER(CDPTK)		1123													
1112	0002H	2	SEGMENT	WORD MEMBER(CDPTK)															
129	0002H	2	SEGMENT	WORD MEMBER(CDPTK)	1123														
127	0025H	1	SF3	BYTE MEMBER(CD)															
127	0026H	1	SF4	BYTE MEMBER(CD)															
127	0027H	1	SF5	BYTE MEMBER(CD)															
591	096FH	1200	SHAREARRAY	STRUCTURE ARRAY(80)	647	648	649	650	651	652	664	665	666						
				667 668 669 776 777 778	780	781	783												
			SHL	BUILTIN	311	1162													
			SHR	BUILTIN	217														
			SIZE	BUILTIN	991	1074	1079												
270	0390H	32	SKIPLINES	PROCEDURE STACK=0010H		553	605	902											
104	0070H	2	SLR	WORD MEMBER(CD)	762														
590	04BFH	1200	SORTARRAY	STRUCTURE ARRAY(80)	612	613	615	616	617	618	628	629	631						
				632 633 634 724 727 728	729	731	750	752	753	754	755	802							
				804 806 807 808 810 811	813	815	816	817	820	822	824	825							
				826															
				LABEL															
801	1408H		SORTMDS	STRUCTURE	802	804	806	807	808	810	820	822	824	825	826				
589	0480H	15	SORTRECD	STRUCTURE	802	804	806	807	808	810	820	822	824	825	826				
104	0008H	56	SPACE	WORD ARRAY(28) MEMBER(CD)															
87	00D1H	1	SPECIFIED	BYTE	381	474	583	684	841	884	977	1102	1126	1169	1208				
104	0048H	1	SRCHDISK	BYTE MEMBER(CD)	1043														
591	0008H	2	START	WORD MEMBER(SHAREARRAY)		651	668	780											
590	0008H	2	START	WORD MEMBER(SORTARRAY)		617	633	727	752	802	810	811	820						
589	0008H	2	START	WORD MEMBER(SORTRECD)		802	810	820											
139	0000H	2	START	WORD MEMBER(SAT)	1076														
136	0002H	2	START	WORD MEMBER(CMS)															
133	0002H	2	START	WORD MEMBER(CD)	727	752	780	1073											
145	0005H	1	STARTCUL	BYTE MEMBER(CD)															
127	0004H	1	STAT	BYTE MEMBER(CD)	503	504													
468	000CH	1	STAT	BYTE MEMBER(PDLTST)	503	562	563												
596	0004H	1	STAT	BYTE PARAMETER AUTOMATIC		397	398	400											
145	000EH	2	STATE	WORD MEMBER(CD)	1011														
416	0006H	1	STATS	BYTE PARAMETER AUTOMATIC		417	420	422											
1	0002H		STATUS	PROCEDURE STACK=0000H															
104	0000H	8	SUPMOD	WORD ARRAY(4) MEMBER(CD)															
102	0004H	4	SYSDATPTR	POINTER	103	104	105	316	435	437	439	441	492	524	532				
				707 747 762 904 991	1002	1029	1033	1036	1039	1043	1047	1050	1055						
				1060 1063 1072 1085 1094	1122	1165													
				STRUCTURE AT	1123														
103	0004H	4	SYSDATPTR	WORD ARRAY(2) MEMBER(CD)															
104	008CH	4	SYSLDT	LITERALLY															
2			TAB	LITERALLY															
683	0E29H	1	TEMP	BYTE	695	699	700												
472	04ABH	1	TEMP	BYTE	486	488	490												
883	14EEH	1	TEMP	BYTE	896	898	899												
104	0050H	1	TEMPDSK	BYTE MEMBER(CD)	1039														

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180	01AFH	15	TERMINATE. . . . .	PROCEDURE STACK=0099H	347	383	585	843	979	1104	1192
104	0072H	2	THKDRT . . . . .	WORD MEMBER(CSD)	492	707					
127	0002H	2	THREAD . . . . .	WORD MEMBER(CPD)	547	714	756				
303	002CH	2	TIDELAY . . . . .	WORD 316 317							
123	0000H	1	TICK . . . . .	BYTE MEMBER(XINIT)							
104	0051H	1	TICKSPERSEC. . . . .	BYTE MEMBER(CSD)	316	1047	1165				
123	0001H	1	TICKSSEC . . . . .	BYTE MEMBER(XINIT)							
104	007EH	4	TOD. . . . .	WORD ARRAY(2) MEMBER(CSD)							
104	0082H	1	TOD_SEC. . . . .	BYTE MEMBER(CSD)							
		2	TRUE . . . . .	LITERALLY 481 486 525 690	695	722	742	773	794	874	891
				996 1124 1147 1169 1177							
127	0010H	2	UDA. . . . .	WORD MEMBER(CPD)	509	515					
148	0000H	27	UDA. . . . .	STRUCTURE BASED(UDAPDNTER)			511	518	519		
146	0026H	4	UDAPDINTER . . . . .	POINTER 147 148 511 518	519						
147	0028H	4	UDAPTR . . . . .	STRUCTURE AT 509 510 515	516						
117			UDASTRUCTURE . . . . .	LITERALLY 148							
133	0008H	2	UNUSED . . . . .	WORD MEMBER(CMD)							
127	0013H	1	USER . . . . .	BYTE MEMBER(CPD)	998						
591	000BH	1	USER . . . . .	BYTE MEMBER(SHAREARRAY)	650	667	778				
145	0024H	2	USLEEP . . . . .	WORD MEMBER(VCCB)							
241	0004H	2	VAL. . . . .	WORD PARAMETER AUTOMATIC	242	251					
225	0004H	1	VAL. . . . .	BYTE PARAMETER AUTOMATIC	226	234					
1107	14F5H	1	VALIDCHAR. . . . .	BYTE 1175 1176 1177 1207							
220	0004H	2	VALUE. . . . .	WORD PARAMETER AUTOMATIC	221	222	223				
215	0004H	1	VALUE. . . . .	BYTE PARAMETER AUTOMATIC	216	217	218				
145	000BH	1	VC . . . . .	BYTE MEMBER(VCCB)							
145	0000H	44	VCCB . . . . .	STRUCTURE BASED(VCCBPOINTER)			991	1011	1024		
143	0024H	4	VCCBPDINTER. . . . .	POINTER 144 145 1011 1024							
144	0024H	4	VCCBPTR. . . . .	STRUCTURE AT 991 1123							
145	0016H	2	VCMXQ. . . . .	WORD MEMBER(VCCB)							
1107	008CH	2	VER. . . . .	WORD 1114 1115 1121							
104	007AH	2	VERNUM . . . . .	WORD MEMBER(CSD)							
984	0004H	1	VERS . . . . .	BYTE PARAMETER AUTOMATIC	985	1001	1007	1020			
104	0078H	2	VERSION. . . . .	WORD MEMBER(CSD)							
1107	14F4H	1	VERSION. . . . .	BYTE 1121 1188							
1111	00BEH	4	VERSTRPINTER . . . . .	POINTER 1112							
1112	00BEH	4	VERSTRPTR . . . . .	STRUCTURE AT							
145	0012H	2	VINQ . . . . .	WORD MEMBER(VCCB)							
145	0014H	2	VOUTQ. . . . .	WORD MEMBER(VCCB)							
145	0026H	2	VSLEEP . . . . .	WORD MEMBER(VCCB)							
127	001AH	2	WAIT . . . . .	WORD MEMBER(CPD)	506						
241	0008H	1	WIDTH. . . . .	BYTE PARAMETER AUTOMATIC	242	244	248	253			
225	0008H	1	WIDTH. . . . .	BYTE PARAMETER AUTOMATIC	226	227	231	236			
193	000CH	1	WIDTH. . . . .	BYTE PARAMETER AUTOMATIC	195	198	201	209			
683	0E25H	1	X. . . . .	BYTE 730 731 749 750	782	783	801	802	804	806	807 808
				809							
123	0000H	12	XINIT. . . . .	STRUCTURE BASED(XINITPOINTER)							
123			XINITOFFSET. . . . .	LITERALLY							
123	0008H	4	XINITPDINTER . . . . .	POINTER 123							
123	0008H	4	XINITPTR . . . . .	STRUCTURE AT							
683	0E26H	1	Y. . . . .	BYTE 809 810 811 813 815	816	817	818	820	822	824	825
				826							

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MODULE INFORMATION:

CODE AREA SIZE = 2112H 8466D  
CONSTANT AREA SIZE = 0985H 2485D  
VARIABLE AREA SIZE = 14F8H 5368D  
MAXIMUM STACK SIZE = 0032H 50D  
1772 LINES READ  
0 PROGRAM ERROR(S)

END OF PL/M-86 COMPILATION

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SER. # \_\_\_\_\_



ISIS-11 MCS-86 LOCATER, V1.2 INVOKED BY:

#FO: SYSTAT.LNK JD(SKCCODE,DATS,DATA,STACK,CONST)) /DC(SMCDL(O),DATSC(1000H)) SSC(SLCK(+32)) TO SYSTAT.

SYMBOL TABLE OF MODULE SCD  
READ FROM FILE SYSTAT.LNK  
WRITTEN TO FILE SYSTAT.

BASE	OFFSET	TYPE	SYMBOL	BASE	OFFSET	TYPE	SYMBOL
0000H	1F7FH	PUB	PLMSTART	0000H	0050H	PUB	XDD5
0000H	0050H	PUB	MON1	0000H	0050H	PUB	MON2
0000H	0050H	PUB	MON3	0000H	0050H	PUB	MON4
1000H	0004H	PUB	BDISK	1000H	0036H	PUB	MAXJ
1000H	0050H	PUB	CMDRV	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	0070H	PUB	RR	1000H	007FH	PUB	RO
1000H	0080H	PUB	BUFF	1000H	0080H	PUB	TBUFF
1000H	0080H	PUB	PUFFA	1000H	005CH	PUB	FCPA
1000H	0100H	PUB	SAVEAX	1000H	0102H	PUB	SAVEBX
1000H	0104H	PUB	SAVECX	1000H	0106H	PUB	SAVEDX

STATUS: SYMBOLS AND LINES

1000H	2010H	SYM	MEMORY	0000H	0102H	SYM	PATCH
1000H	0108H	SYM	I	1000H	01CAH	SYM	MAXPD
1000H	01CBH	SYM	MAXMD	1000H	01CCH	SYM	MAXQFLAGS
1000H	01CDH	SYM	FREENAME	1000H	01D5H	SYM	MAXQUEUES
1000H	01D6H	SYM	LBRACKET	1000H	01D7H	SYM	RBRACKET
1000H	01D8H	SYM	REPEAT	1000H	01D4H	SYM	INTRVAL
1000H	01D9H	SYM	SPECIFIED	1000H	01DAH	SYM	FLAGLEN
1000H	01DBH	SYM	CLEARSEQ	1000H	01E1H	SYM	HOMESLQ
1000H	01DCH	SYM	SYSDATPINTER	1000H	01DCH	SYM	SYSDATPTR
1000H	01DCH	BAS	SD	1000H	01DCH	BAS	SDRYTE
1000H	0110H	SYM	XINITPINTER	1000H	0110H	SYM	XINITPTR
1000H	0110H	BAS	XINIT	1000H	0114H	SYM	PDPINTER
1000H	0114H	SYM	PDPTR	1000H	0114H	BAS	PD
1000H	0118H	SYM	QDPINTER	1000H	0118H	SYM	QDPTR
1000H	0118H	BAS	QD	1000H	011CH	SYM	MDPINTER
1000H	011CH	SYM	MDPTR	1000H	011CH	BAS	MD
1000H	0120H	SYM	MSPINTER	1000H	0120H	SYM	MSPTR
1000H	0120H	BAS	MS	1000H	0124H	SYM	SATPINTER
1000H	0124H	SYM	SATPTR	1000H	0124H	BAS	SAT
1000H	0128H	SYM	FLAGPINTER	1000H	0128H	SYM	FLAGPTR
1000H	0128H	BAS	FLAG	1000H	012CH	SYM	VCCBPINTER
1000H	012CH	SYM	VCCBPTR	1000H	012CH	BAS	VLCB
1000H	0130H	SYM	UDAPINTER	1000H	0130H	SYM	UDAPTR
1000H	0130H	BAS	UDA	0000H	021FH	SYM	REBDDI
0000H	0220H	SYM	CONIN	0000H	023CH	SYM	CD
STACK	0004H	SYM	CHAR	0000H	024FH	SYM	RAWCONIN
0000H	025EH	SYM	CONSTAT	0000H	026DH	SYM	RAWCD
STACK	0004H	SYM	CHAR	0000H	0280H	SYM	DELAY
STACK	0004H	SYM	NUM	0000H	0290H	SYM	PRINTBUFFER
STACK	0004H	SYM	BUFFERADR	0000H	02A0H	SYM	GETVERSION
0000H	02AFH	SYM	TERMTATE	0000H	02BEH	SYM	GETSYSOAT
0000H	02CDH	SYM	GETCURRPD	0000H	02DCH	SYM	CRLF
0000H	02EDH	SYM	PRINTINFIELD	STACK	000CH	SYM	WIDTH
STACK	0004H	SYM	JUSTIFY	STACK	0008H	SYM	LEN
STACK	0004H	SYM	DATADDR	1000H	01E7H	SYM	I
STACK	0004H	BAS	CHAR	STACK	0004H	SYM	DATPTR

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1000H	1652H	SYM	HEXDIGIT	0000H	0354H	SYM	DISPLAYHEXBYTE
STACK	0004H	SYM	VALUE	0000H	0390H	SYM	DISPLAYHEXWORD
STACK	0004H	SYM	VALUE	0000H	03A7H	SYM	PRINTHEXBYTE
STACK	0008H	SYM	WIDTH	STACK	0006H	SYM	JUSTIFY
STACK	0004H	SYM	VAL	1000H	01E6H	SYM	I
0000H	03FEH	SYM	PRINTHEXWORD	STACK	0008H	SYM	WIDTH
STACK	0006H	SYM	JUSTIFY	STACK	0004H	SYM	VAL
1000H	01E9H	SYM	I	0000H	0455H	SYM	CLEAR
1000H	01EAH	SYM	I	0000H	0479H	SYM	HORE
1000H	01EBH	SYM	I	0000H	0493H	SYM	SKIPLINES
STACK	0004H	SYM	NUMLINES	1000H	01ECH	SYM	I
0000H	048DH	SYM	CONSWAIT	1000H	01EDH	SYM	CHR
0000H	04CFH	SYM	ASCHEX	STACK	0004H	SYM	NDA
0000H	0513H	SYM	GETINTRVAL	1000H	01EEH	SYM	CHR
1000H	01EFH	SYM	CHR1	1000H	0134H	SYM	TICDELAY
0000H	056FH	SYM	DISPMAINHDR	0000H	0640H	SYM	PRINTOPTERR
0000H	0652H	SYM	DISPLAYHELP	0000H	076AH	SYM	PRINTHEADER
0000H	07D5H	SYM	DISPSTATUS	STACK	0004H	SYM	STAT
0000H	08BEH	SYM	DISPRESOURCE	STACK	0006H	SYM	STATS
STACK	0004H	SYM	RSRCE	1000H	0136H	SYM	OFFS
1000H	01F0H	SYM	COUNT	1000H	01F1H	SYM	NOTFOUND
1000H	01F2H	SYM	PDLIST	1000H	0138H	SYM	LINKLIST
0000H	0A4DH	SYM	DISPLAYPROC	STACK	0004H	SYM	LNKFIELD
1000H	05B2H	SYM	CHAR	1000H	05E3H	SYM	TEMP
1000H	05B4H	SYM	K	1000H	05B5H	SYM	N
1000H	05B6H	SYM	NOTFOUND	1000H	05B7H	SYM	I
0000H	0A85H	SYM	GETPDS	0000H	0CA9H	SYM	PRINTPOS
1000H	05B8H	SYM	SORTRECD	1000H	05C7H	SYM	SORTARRAY
1000H	0A77H	SYM	SHAKEARRAY	0000H	0D35H	SYM	DISPMENHDR
0000H	0DEAH	SYM	PRINTSORTED	STACK	0006H	SYM	CNT
STACK	0004H	SYM	SCNT	1000H	0F27H	SYM	N
1000H	0F28H	SYM	Q	1000H	0F29H	SYM	K
0000H	11CEH	SYM	DISPLAYMEM	1000H	0F2AH	SYM	I
1000H	0F2BH	SYM	MDCNT	1000H	0F2CH	SYM	PDCNT
1000H	0F2DH	SYM	X	1000H	0F2EH	SYM	Y
1000H	0F2FH	SYM	CONT	1000H	0F30H	SYM	SCDCNT
1000H	01B8H	SYM	N	1000H	0F31H	SYM	TEMP
1000H	0F32H	SYM	CHR	1000H	01BAH	SYM	SAVMAU
0000H	1254H	SYM	GETMEMOWNERS	0000H	12B3H	SYM	GETMDS
0000H	1454H	SYM	GETSHARED	0000H	15DBH	SYM	SORTMDS
0000H	164CH	SYM	FIND	1000H	0F33H	SYM	QLIST
0000H	17A9H	SYM	PRINTQHDR	0000H	17D6H	SYM	DISPLAYFLAGSTATU
							-S
STACK	0004H	SYM	FLAG	1000H	15F3H	SYM	PREV
1000H	15F4H	SYM	I	1000H	15F5H	SYM	CNT
0000H	1841H	SYM	DISPLAYQUEUE	1000H	15F6H	SYM	TEMP
1000H	01BCH	SYM	N	1000H	15F7H	SYM	QDCNT
1000H	15F8H	SYM	CGMT	1000H	15F9H	SYM	CHR
1000H	15FAH	SYM	I	0000H	18A6H	SYM	GETQUEUES
0000H	19F7H	SYM	PRINTQDS	1000H	1662H	SYM	DRIVLETTER
0000H	1891H	SYM	DISPLAYGEN	STACK	0004H	SYM	VERS
1000H	01BEH	SYM	COUNT	1000H	01C0H	SYM	QSIZE
1000H	01C2H	SYM	MODE	0000H	1F7FH	SYM	PLMSTART
1000H	15FBH	SYM	I	1000H	15FCH	SYM	VERSION
1000H	01C4H	SYM	VER	1000H	15FDH	SYM	VALIDCHAR
1000H	01C6H	SYM	VERSSSTRPINTER	1000H	01C6H	SYM	VERSSSTRPTR
1000H	15FEH	SYM	DOSCAN	1000H	15FFH	SYM	CHR
0000H	0102H	LIN	20	0000H	0105H	LIN	22
0000H	0110H	LIN	23	0000H	0115H	LIN	24
0000H	011AH	LIN	25	0000H	011FH	LIN	26

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0000H	0124H	LIN	27	0000H	0129H	LIN	28
0000H	012EH	LIN	29	0000H	0133H	LIN	30
0000H	0138H	LIN	31	0000H	013DH	LIN	32
0000H	0142H	LIN	33	0000H	0147H	LIN	34
0000H	014CH	LIN	35	0000H	0151H	LIN	36
0000H	0156H	LIN	37	0000H	0158H	LIN	38
0000H	0160H	LIN	39	0000H	0165H	LIN	40
0000H	016AH	LIN	41	0000H	016FH	LIN	42
0000H	0174H	LIN	43	0000H	0179H	LIN	44
0000H	017EH	LIN	45	0000H	0183H	LIN	46
0000H	0188H	LIN	47	0000H	018DH	LIN	48
0000H	0192H	LIN	49	0000H	0197H	LIN	50
0000H	019CH	LIN	51	0000H	01A1H	LIN	52
0000H	01A6H	LIN	53	0000H	01ASH	LIN	54
0000H	01B0H	LIN	55	0000H	01B5H	LIN	56
0000H	01BAH	LIN	57	0000H	01BFH	LIN	58
0000H	01C4H	LIN	59	0000H	01C9H	LIN	60
0000H	01CEH	LIN	61	0000H	01D3H	LIN	62
0000H	01D8H	LIN	63	0000H	01D8H	LIN	64
0000H	01E2H	LIN	65	0000H	01E7H	LIN	66
0000H	01ECH	LIN	67	0000H	01F1H	LIN	68
0000H	01F6H	LIN	69	0000H	01FBH	LIN	70
0000H	0200H	LIN	71	0000H	0205H	LIN	72
0000H	020AH	LIN	73	0000H	020FH	LIN	74
0000H	0214H	LIN	75	0000H	0219H	LIN	76
0000H	021DH	LIN	77	0000H	021FH	LIN	149
0000H	0222H	LIN	150	0000H	022BH	LIN	151
0000H	022DH	LIN	152	0000H	0230H	LIN	153
0000H	023CH	LIN	154	0000H	023CH	LIN	155
0000H	023FH	LIN	157	0000H	024BH	LIN	158
0000H	024FH	LIN	159	0000H	0252H	LIN	160
0000H	025EH	LIN	161	0000H	025EH	LIN	162
0000H	0261H	LIN	163	0000H	026DH	LIN	164
0000H	026DH	LIN	165	0000H	0270H	LIN	167
0000H	027CH	LIN	168	0000H	0280H	LIN	169
0000H	0283H	LIN	171	0000H	028CH	LIN	172
0000H	0290H	LIN	173	0000H	0293H	LIN	175
0000H	029CH	LIN	176	0000H	02A0H	LIN	177
0000H	02A3H	LIN	178	0000H	02AFH	LIN	179
0000H	02AFH	LIN	180	0000H	02B2H	LIN	181
0000H	02BCH	LIN	182	0000H	02BEH	LIN	183
0000H	02C1H	LIN	184	0000H	02CDH	LIN	185
0000H	02CDH	LIN	186	0000H	02D0H	LIN	187
0000H	02DCH	LIN	188	0000H	02DCH	LIN	189
0000H	02DFH	LIN	190	0000H	02E5H	LIN	191
0000H	02EBH	LIN	192	0000H	02EDH	LIN	193
0000H	02F0H	LIN	198	0000H	02F8H	LIN	200
0000H	02FEH	LIN	201	0000H	030FH	LIN	202
0000H	0315H	LIN	203	0000H	031BH	LIN	204
0000H	0328H	LIN	205	0000H	0334H	LIN	206
0000H	0337H	LIN	207	0000H	033DH	LIN	208
0000H	0343H	LIN	209	0000H	0354H	LIN	210
0000H	035AH	LIN	211	0000H	0360H	LIN	213
0000H	0364H	LIN	215	0000H	0367H	LIN	217
0000H	0377H	LIN	218	0000H	038CH	LIN	219
0000H	0390H	LIN	220	0000H	0393H	LIN	222
0000H	039CH	LIN	223	0000H	03A3H	LIN	224
0000H	03A7H	LIN	225	0000H	03AH	LIN	227
0000H	03B0H	LIN	230	0000H	03B5H	LIN	231
0000H	03C6H	LIN	232	0000H	03CCH	LIN	233

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0000H	03D2H	LIN	234	0000H	03D6H	LIN	235
0000H	03DcH	LIN	236	0000H	03FEH	LIN	237
0000H	03F4H	LIN	238	0000H	03FAH	LIN	240
0000H	03FEH	LIN	241	0000H	0401H	LIN	244
0000H	0407H	LIN	247	0000H	0400H	LIN	248
0000H	0410H	LIN	249	0000H	0423H	LIN	250
0000H	0429H	LIN	251	0000H	042FH	LIN	252
0000H	0435H	LIN	253	0000H	0445H	LIN	254
0000H	0448H	LIN	255	0000H	0451H	LIN	257
0000H	0455H	LIN	253	0000H	0456H	LIN	260
0000H	0466H	LIN	261	0000H	0471H	LIN	262
0000H	0477H	LIN	263	0000H	0479H	LIN	264
0000H	047CH	LIN	266	0000H	048AH	LIN	267
0000H	0495H	LIN	268	0000H	049BH	LIN	269
0000H	049DH	LIN	270	0000H	04A0H	LIN	272
0000H	04ADH	LIN	273	0000H	04B3H	LIN	274
0000H	04B9H	LIN	275	0000H	0430H	LIN	276
0000H	04C0H	LIN	278	0000H	04C7H	LIN	279
0000H	04CDH	LIN	280	0000H	04CFH	LIN	281
0000H	04D2H	LIN	283	0000H	04DEH	LIN	285
0000H	04E2H	LIN	286	0000H	04E4H	LIN	288
0000H	04F0H	LIN	290	0000H	04F4H	LIN	291
0000H	04F6H	LIN	293	0000H	0502H	LIN	295
0000H	0506H	LIN	296	0000H	0503H	LIN	297
0000H	050CH	LIN	300	0000H	0513H	LIN	301
0000H	0513H	LIN	302	0000H	0516H	LIN	304
0000H	051CH	LIN	305	0000H	0527H	LIN	307
0000H	052EH	LIN	308	0000H	0534H	LIN	309
0000H	053FH	LIN	311	0000H	0552H	LIN	312
0000H	0558H	LIN	314	0000H	055AH	LIN	315
0000H	055FH	LIN	316	0000H	056DH	LIN	317
0000H	056FH	LIN	318	0000H	056FH	LIN	319
0000H	0572H	LIN	320	0000H	0575H	LIN	321
0000H	0578H	LIN	322	0000H	0576H	LIN	323
0000H	057EH	LIN	324	0000H	0590H	LIN	325
0000H	0593H	LIN	326	0000H	0596H	LIN	327
0000H	05A8H	LIN	328	0000H	05ABH	LIN	329
0000H	05BDH	LIN	330	0000H	05C0H	LIN	331
0000H	05D2H	LIN	332	0000H	05D5H	LIN	333
0000H	05E7H	LIN	334	0000H	05EAH	LIN	335
0000H	05FCH	LIN	336	0000H	05FFH	LIN	337
0000H	0611H	LIN	338	0000H	0614H	LIN	339
0000H	0626H	LIN	340	0000H	0629H	LIN	341
0000H	062CH	LIN	342	0000H	063EH	LIN	343
0000H	0640H	LIN	344	0000H	0643H	LIN	345
0000H	064AH	LIN	346	0000H	064DH	LIN	347
0000H	0650H	LIN	348	0000H	0652H	LIN	349
0000H	0655H	LIN	350	0000H	0658H	LIN	351
0000H	0656H	LIN	352	0000H	065EH	LIN	353
0000H	0661H	LIN	354	0000H	0664H	LIN	355
0000H	0676H	LIN	356	0000H	0679H	LIN	357
0000H	067CH	LIN	358	0000H	068EH	LIN	359
0000H	0691H	LIN	360	0000H	06A3H	LIN	361
0000H	06A6H	LIN	362	0000H	0688H	LIN	363
0000H	06BBH	LIN	364	0000H	06C0H	LIN	365
0000H	06D0H	LIN	366	0000H	06D3H	LIN	367
0000H	06E5H	LIN	368	0000H	06E8H	LIN	369
0000H	06EBH	LIN	370	0000H	06FDH	LIN	371
0000H	0700H	LIN	372	0000H	0712H	LIN	373
0000H	0715H	LIN	374	0000H	0718H	LIN	375

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0000H	072AH	LIN	376
0000H	073FH	LIN	378
0000H	0754H	LIN	380
0000H	0760H	LIN	382
0000H	0768H	LIN	384
0000H	076DH	LIN	386
0000H	0773H	LIN	388
0000H	0788H	LIN	390
0000H	07ACH	LIN	392
0000H	07C1H	LIN	394
0000H	07D5H	LIN	396
0000H	07E1H	LIN	400
0000H	07FCH	LIN	402
0000H	081AH	LIN	404
0000H	0838H	LIN	406
0000H	0856H	LIN	408
0000H	0874H	LIN	410
0000H	0892H	LIN	412
0000H	08A8H	LIN	414
0000H	08BEH	LIN	416
0000H	08CAH	LIN	422
0000H	08E5H	LIN	425
0000H	08FAH	LIN	427
0000H	090AH	LIN	430
0000H	0919H	LIN	432
0000H	0937H	LIN	435
0000H	0953H	LIN	437
0000H	096FH	LIN	439
0000H	0983H	LIN	441
0000H	09A7H	LIN	443
0000H	09CFH	LIN	452
0000H	09D5H	LIN	455
0000H	09EAH	LIN	457
0000H	09F9H	LIN	460
0000H	0A12H	LIN	462
0000H	0A21H	LIN	464
0000H	0A37H	LIN	466
0000H	0A4DH	LIN	470
0000H	0A59H	LIN	476
0000H	0A63H	LIN	478
0000H	0A77H	LIN	481
0000H	0A83H	LIN	483
0000H	0A8EH	LIN	487
0000H	0A9FH	LIN	489
0000H	0AA5H	LIN	491
0000H	0A85H	LIN	493
0000H	0AD8H	LIN	495
0000H	0B07H	LIN	498
0000H	0B30H	LIN	500
0000H	0B4BH	LIN	502
0000H	0B5BH	LIN	504
0000H	0B69H	LIN	506
0000H	0B81H	LIN	509
0000H	0B92H	LIN	511
0000H	0EA4H	LIN	513
0000H	0B3DH	LIN	516
0000H	0BCAH	LIN	518
0000H	0BEFH	LIN	520
0000H	0BF9H	LIN	523
0000H	0C13H	LIN	525

0000H	0725H	LIN	377
0000H	0742H	LIN	379
0000H	0757H	LIN	381
0000H	0765H	LIN	383
0000H	076AH	LIN	385
0000H	0770H	LIN	387
0000H	0785H	LIN	389
0000H	079AH	LIN	391
0000H	07AFH	LIN	393
0000H	07D3H	LIN	395
0000H	07D8H	LIN	398
0000H	07E0H	LIN	401
0000H	080BH	LIN	403
0000H	0829H	LIN	405
0000H	0847H	LIN	407
0000H	0865H	LIN	409
0000H	0883H	LIN	411
0000H	08A8H	LIN	413
0000H	08BAH	LIN	415
0000H	08C1H	LIN	420
0000H	08D6H	LIN	423
0000H	08F5H	LIN	426
0000H	08FAH	LIN	429
0000H	0916H	LIN	431
0000H	0928H	LIN	433
0000H	0944H	LIN	436
0000H	0960H	LIN	438
0000H	097CH	LIN	440
0000H	0998H	LIN	442
0000H	09B6H	LIN	450
0000H	09CFH	LIN	454
0000H	09DBH	LIN	456
0000H	09F9H	LIN	458
0000H	0A0BH	LIN	461
0000H	0A14H	LIN	463
0000H	0A37H	LIN	465
0000H	0A49H	LIN	467
0000H	0A50H	LIN	474
0000H	0A5CH	LIN	477
0000H	0A69H	LIN	479
0000H	0A7CH	LIN	482
0000H	0A89H	LIN	486
0000H	0A91H	LIN	488
0000H	0AA0H	LIN	490
0000H	0AAAH	LIN	492
0000H	0A07H	LIN	494
0000H	0AF2H	LIN	497
0000H	0B13H	LIN	499
0000H	0B36H	LIN	501
0000H	0B53H	LIN	503
0000H	0B5FH	LIN	505
0000H	0B7AH	LIN	507
0000H	0B8CH	LIN	510
0000H	0BA4H	LIN	512
0000H	0B82H	LIN	515
0000H	0BC3H	LIN	517
0000H	0B06H	LIN	519
0000H	0BF2H	LIN	521
0000H	0C08H	LIN	524
0000H	0C18H	LIN	526

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0000h	0C10h	LIN	527	0000h	0C24h	LIN	523
0000h	0C31h	LIN	530	0000h	0C39h	LIN	531
0000h	0C42h	LIN	532	0000h	0C4Fh	LIN	533
0000h	0C54h	LIN	534	0000h	0C56h	LIN	535
0000h	0C69h	LIN	537	0000h	0C66h	LIN	540
0000h	0C6jh	LIN	541	0000h	0C72h	LIN	543
0000h	0C86h	LIN	545	0000h	0C86h	LIN	546
0000h	0C8Ah	LIN	547	0000h	0C95h	LIN	548
0000h	0C95h	LIN	549	0000h	0C9Fh	LIN	551
0000h	0CA0h	LIN	552	0000h	0CA3h	LIN	552
0000h	0CA9h	LIN	554	0000h	0CAAh	LIN	555
0000h	0CBeh	LIN	556	0000h	0CC1h	LIN	557
0000h	0CD7h	LIN	558	0000h	0CDEh	LIN	559
0000h	0CF9h	LIN	560	0000h	0D0Fh	LIN	561
0000h	0D25h	LIN	562	0000h	0D35h	LIN	563
0000h	0D49h	LIN	564	0000h	0D52h	LIN	565
0000h	0D59h	LIN	567	0000h	0D66h	LIN	568
0000h	0D60h	LIN	569	0000h	0D73h	LIN	571
0000h	0D7Ah	LIN	573	0000h	0D7Fh	LIN	574
0000h	0D85h	LIN	576	0000h	0D8Ch	LIN	578
0000h	0D93h	LIN	579	0000h	0D9Ah	LIN	580
0000h	0D90h	LIN	581	0000h	0D9Dh	LIN	583
0000h	0DA6h	LIN	584	0000h	0DABh	LIN	585
0000h	0DAeh	LIN	587	0000h	0DB1h	LIN	588
0000h	0DB5h	LIN	592	0000h	0DB8h	LIN	593
0000h	0DBjh	LIN	594	0000h	0DBeh	LIN	595
0000h	0DC5h	LIN	596	0000h	0DCC	LIN	597
0000h	0DD3h	LIN	598	0000h	0DDAh	LIN	599
0000h	0DE1h	LIN	600	0000h	0DE8h	LIN	601
0000h	0DEAh	LIN	602	0000h	0DEDh	LIN	604
0000h	0DF0h	LIN	605	0000h	0DF6h	LIN	606
0000h	0DFfh	LIN	608	0000h	0E1Eh	LIN	609
0000h	0E21h	LIN	610	0000h	0E27h	LIN	611
0000h	0E36h	LIN	612	0000h	0E51h	LIN	613
0000h	0E61h	LIN	614	0000h	0E6Ah	LIN	615
0000h	0E80h	LIN	616	0000h	0E96h	LIN	617
0000h	0EACH	LIN	618	0000h	0EC2h	LIN	619
0000h	0ED2h	LIN	620	0000h	0ED9h	LIN	621
0000h	0EF0h	LIN	622	0000h	0EF9h	LIN	623
0000h	0F02h	LIN	625	0000h	0F15h	LIN	627
0000h	0F1Ch	LIN	628	0000h	0F39h	LIN	629
0000h	0F46h	LIN	630	0000h	0F54h	LIN	631
0000h	0F6Ch	LIN	632	0000h	0F84h	LIN	633
0000h	0F9Ch	LIN	634	0000h	0FB4h	LIN	636
0000h	0F8Ah	LIN	638	0000h	0FC1h	LIN	639
0000h	0FC8h	LIN	641	0000h	0FD1h	LIN	643
0000h	0Ff0h	LIN	644	0000h	0FF3h	LIN	645
0000h	0FF9h	LIN	646	0000h	1008h	LIN	647
0000h	1023h	LIN	648	0000h	1039h	LIN	649
0000h	104Fh	LIN	650	0000h	1055h	LIN	651
0000h	107Bh	LIN	652	0000h	1091h	LIN	653
0000h	10A1h	LIN	654	0000h	10A8h	LIN	655
0000h	10BFh	LIN	656	0000h	10C8h	LIN	657
0000h	10D1h	LIN	659	0000h	10DAh	LIN	661
0000h	10EDh	LIN	663	0000h	10F4h	LIN	664
0000h	1111h	LIN	665	0000h	1129h	LIN	666
0000h	1141h	LIN	667	0000h	1159h	LIN	668
0000h	1171h	LIN	669	0000h	1189h	LIN	671
0000h	118Ch	LIN	673	0000h	11A0h	LIN	675
0000h	1186h	LIN	676	0000h	11B0h	LIN	677

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0000H	11C4H	LIN	678	0000H	11C4H	LIN	678
0000H	11CEH	LIN	681	0000H	11D1H	LIN	684
0000H	11DAH	LIN	686	0000H	11E1H	LIN	687
0000H	11E7H	LIN	688	0000H	11F5H	LIN	690
0000H	11FAH	LIN	691	0000H	1201H	LIN	692
0000H	1207H	LIN	695	0000H	120CH	LIN	696
0000H	120FH	LIN	697	0000H	1212H	LIN	698
0000H	1215H	LIN	699	0000H	1223H	LIN	700
0000H	1228H	LIN	701	0000H	1236H	LIN	702
0000H	1242H	LIN	703	0000H	1248H	LIN	704
0000H	124EH	LIN	705	0000H	1253H	LIN	706
0000H	1254H	LIN	707	0000H	125FH	LIN	708
0000H	127EH	LIN	709	0000H	1287H	LIN	711
0000H	129CH	LIN	712	0000H	12A0H	LIN	714
0000H	12AAH	LIN	715	0000H	12AAH	LIN	716
0000H	12B1H	LIN	717	0000H	12B3H	LIN	718
0000H	12B8H	LIN	719	0000H	12C3H	LIN	720
0000H	12DAH	LIN	721	0000H	12F5H	LIN	722
0000H	12EAH	LIN	723	0000H	1301H	LIN	724
0000H	1312H	LIN	725	0000H	1317H	LIN	726
0000H	1323H	LIN	727	0000H	132FH	LIN	728
0000H	1337H	LIN	729	0000H	1345H	LIN	730
0000H	1351H	LIN	731	0000H	136EH	LIN	732
0000H	1374H	LIN	733	0000H	137EH	LIN	735
0000H	1385H	LIN	736	0000H	138BH	LIN	737
0000H	13ADH	LIN	741	0000H	138AH	LIN	742
0000H	13BFH	LIN	744	0000H	13C3H	LIN	745
0000H	13C6H	LIN	746	0000H	13CFH	LIN	747
0000H	13DAH	LIN	748	0000H	13F9H	LIN	749
0000H	1405H	LIN	750	0000H	141DH	LIN	751
0000H	1423H	LIN	752	0000H	1438H	LIN	753
0000H	143EH	LIN	754	0000H	1446H	LIN	755
0000H	144BH	LIN	756	0000H	144FH	LIN	757
0000H	1454H	LIN	759	0000H	145AH	LIN	760
0000H	145FH	LIN	761	0000H	1464H	LIN	762
0000H	146FH	LIN	763	0000H	148EH	LIN	764
0000H	14A1H	LIN	765	0000H	14A5H	LIN	766
0000H	14AFH	LIN	767	0000H	14AFH	LIN	768
0000H	14B9H	LIN	770	0000H	14CCH	LIN	771
0000H	14DBH	LIN	772	0000H	14E6H	LIN	773
0000H	14EBH	LIN	774	0000H	1502H	LIN	775
0000H	1507H	LIN	776	0000H	151CH	LIN	777
0000H	1524H	LIN	778	0000H	152CH	LIN	779
0000H	1538H	LIN	780	0000H	1544H	LIN	781
0000H	154CH	LIN	782	0000H	1558H	LIN	783
0000H	1575H	LIN	784	0000H	157BH	LIN	785
0000H	1585H	LIN	787	0000H	158CH	LIN	788
0000H	1592H	LIN	789	0000H	15B4H	LIN	793
0000H	15C2H	LIN	794	0000H	15C7H	LIN	796
0000H	15C3H	LIN	797	0000H	15CEH	LIN	798
0000H	15D7H	LIN	800	0000H	15D8H	LIN	801
0000H	15EBH	LIN	802	0000H	15FBH	LIN	803
0000H	1607H	LIN	804	0000H	1620H	LIN	805
0000H	1626H	LIN	806	0000H	1637H	LIN	807
0000H	163FH	LIN	808	0000H	1646H	LIN	809
0000H	164CH	LIN	810	0000H	1676H	LIN	811
0000H	1689H	LIN	812	0000H	1696H	LIN	813
0000H	16B8H	LIN	814	0000H	16REH	LIN	815
0000H	16D9H	LIN	816	0000H	16E1H	LIN	817
0000H	16E9H	LIN	818	0000H	16EDH	LIN	819

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SER. # \_\_\_\_\_

0000H	16EDH	LIN	820	0000H	16FLH	LIN	821
0000H	170AH	LIN	822	0000H	1722H	LIN	825
0000H	1728H	LIN	824	0000H	1739H	LIN	825
0000H	1741H	LIN	826	0000H	1749H	LIN	827
0000H	1752H	LIN	828	0000H	175DH	LIN	829
0000H	1764H	LIN	831	0000H	1759H	LIN	832
0000H	176FH	LIN	834	0000H	1776H	LIN	836
0000H	1787H	LIN	837	0000H	1784H	LIN	838
0000H	1791H	LIN	839	0000H	1793H	LIN	841
0000H	179CH	LIN	842	0000H	17A1H	LIN	843
0000H	17A4H	LIN	845	0000H	17A7H	LIN	846
0000H	17A9H	LIN	848	0000H	17A6H	LIN	849
0000H	17AFH	LIN	850	0000H	17B2H	LIN	851
0000H	17B9H	LIN	852	0000H	17C0H	LIN	853
0000H	17C3H	LIN	854	0000H	17CAH	LIN	855
0000H	17D1H	LIN	856	0000H	17D4H	LIN	857
0000H	17D6H	LIN	858	0000H	17D9H	LIN	861
0000H	17DEH	LIN	862	0000H	17E3H	LIN	863
0000H	17E3H	LIN	864	0000H	17F1H	LIN	865
0000H	17F6H	LIN	867	0000H	17FDH	LIN	869
0000H	1803H	LIN	870	0000H	1807H	LIN	872
0000H	180EH	LIN	873	0000H	1813H	LIN	874
0000H	1818H	LIN	876	0000H	1822H	LIN	877
0000H	1824H	LIN	878	0000H	1831H	LIN	879
0000H	1837H	LIN	880	0000H	183DH	LIN	881
0000H	1841H	LIN	882	0000H	1844H	LIN	884
0000H	184DH	LIN	886	0000H	1850H	LIN	887
0000H	1857H	LIN	888	0000H	185DH	LIN	889
0000H	186BH	LIN	891	0000H	1870H	LIN	892
0000H	1877H	LIN	893	0000H	187DH	LIN	896
0000H	1882H	LIN	897	0000H	1885H	LIN	898
0000H	1893H	LIN	899	0000H	1898H	LIN	900
0000H	189DH	LIN	901	0000H	18A0H	LIN	902
0000H	18A6H	LIN	903	0000H	18A7H	LIN	904
0000H	18B2H	LIN	905	0000H	18D3H	LIN	906
0000H	18DFH	LIN	907	0000H	18FCH	LIN	908
0000H	1902H	LIN	909	0000H	1917H	LIN	910
0000H	191FH	LIN	911	0000H	1927H	LIN	912
0000H	192FH	LIN	913	0000H	1937H	LIN	914
0000H	1946H	LIN	916	0000H	194DH	LIN	917
0000H	1954H	LIN	918	0000H	1960H	LIN	919
0000H	197DH	LIN	920	0000H	1985H	LIN	921
0000H	1991H	LIN	922	0000H	19A7H	LIN	923
0000H	19ADH	LIN	924	0000H	19AFH	LIN	925
0000H	198BH	LIN	926	0000H	19D1H	LIN	927
0000H	19D7H	LIN	928	0000H	19ECH	LIN	929
0000H	19F0H	LIN	930	0000H	19F6H	LIN	931
0000H	19F6H	LIN	932	0000H	19F7H	LIN	933
0000H	1A0AH	LIN	934	0000H	1A11H	LIN	935
0000H	1A2CH	LIN	936	0000H	1A42H	LIN	937
0000H	1A58H	LIN	938	0000H	1A6EH	LIN	939
0000H	1A7EH	LIN	940	0000H	1A85H	LIN	941
0000H	1A9CH	LIN	942	0000H	1AA3H	LIN	943
0000H	1AB3H	LIN	944	0000H	1ABAH	LIN	945
0000H	1AD1H	LIN	946	0000H	1AD8H	LIN	947
0000H	1AF3H	LIN	948	0000H	1B03H	LIN	949
0000H	1B06H	LIN	950	0000H	1B0FH	LIN	951
0000H	1B16H	LIN	952	0000H	1B1DH	LIN	953
0000H	1B20H	LIN	954	0000H	1B27H	LIN	955
0000H	1B2EH	LIN	956	0000H	1B36H	LIN	957

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0000H	1B3AH	LIN	959	0000H	1B44H	LIN	960
0000H	1B4BH	LIN	961	0000H	1B51H	LIN	962
0000H	1B58H	LIN	965	0000H	1B5DH	LIN	966
0000H	1B63H	LIN	968	0000H	1B6AH	LIN	970
0000H	1B71H	LIN	971	0000H	1B78H	LIN	973
0000H	1B7AH	LIN	975	0000H	1B7EH	LIN	977
0000H	1B84H	LIN	978	0000H	1B89H	LIN	979
0000H	1B8CH	LIN	981	0000H	1B8FH	LIN	982
0000H	1B91H	LIN	984	0000H	1B94H	LIN	986
0000H	1B97H	LIN	989	0000H	1B9AH	LIN	990
0000H	1BA5H	LIN	991	0000H	1B8FH	LIN	992
0000H	1BC2H	LIN	993	0000H	1BD4H	LIN	994
0000H	1BE5H	LIN	995	0000H	1BE5H	LIN	995
0000H	1BEEH	LIN	997	0000H	1C00H	LIN	998
0000H	1C08H	LIN	999	0000H	1C0EH	LIN	1000
0000H	1C20H	LIN	1001	0000H	1C27H	LIN	1002
0000H	1C38H	LIN	1003	0000H	1C46H	LIN	1004
0000H	1C49H	LIN	1005	0000H	1C56H	LIN	1006
0000H	1C66H	LIN	1007	0000H	1C6FH	LIN	1009
0000H	1C72H	LIN	1010	0000H	1C84H	LIN	1011
0000H	1C8FH	LIN	1012	0000H	1C94H	LIN	1014
0000H	1C9FH	LIN	1015	0000H	1CA4H	LIN	1016
0000H	1CA9H	LIN	1017	0000H	1CA9H	LIN	1018
0000H	1CB0H	LIN	1020	0000H	1CB9H	LIN	1022
0000H	1C8CH	LIN	1023	0000H	1CCEH	LIN	1024
0000H	1CD9H	LIN	1025	0000H	1CDFH	LIN	1027
0000H	1CE2H	LIN	1028	0000H	1CF4H	LIN	1029
0000H	1CFFH	LIN	1030	0000H	1D06H	LIN	1031
0000H	1D09H	LIN	1032	0000H	1D13H	LIN	1033
0000H	1D26H	LIN	1034	0000H	1D29H	LIN	1035
0000H	1D38H	LIN	1036	0000H	1D46H	LIN	1037
0000H	1D49H	LIN	1038	0000H	1D58H	LIN	1039
0000H	1D6CH	LIN	1040	0000H	1D72H	LIN	1041
0000H	1D75H	LIN	1042	0000H	1D87H	LIN	1043
0000H	1D98H	LIN	1044	0000H	1D9EH	LIN	1045
0000H	1DA1H	LIN	1046	0000H	1D93H	LIN	1047
0000H	1D8EH	LIN	1048	0000H	1DC1H	LIN	1049
0000H	1DD3H	LIN	1050	0000H	1DDEH	LIN	1051
0000H	1DE3H	LIN	1052	0000H	1DEAH	LIN	1053
0000H	1DEDH	LIN	1054	0000H	1DFFH	LIN	1055
0000H	1E08H	LIN	1055	0000H	1E10H	LIN	1057
0000H	1E17H	LIN	1058	0000H	1E1AH	LIN	1059
0000H	1E2CH	LIN	1060	0000H	1E37H	LIN	1061
0000H	1E3AH	LIN	1062	0000H	1E4CH	LIN	1063
0000H	1E57H	LIN	1064	0000H	1E5DH	LIN	1065
0000H	1E64H	LIN	1066	0000H	1E68H	LIN	1067
0000H	1E72H	LIN	1068	0000H	1E74H	LIN	1069
0000H	1E78H	LIN	1070	0000H	1E7EH	LIN	1071
0000H	1E90H	LIN	1072	0000H	1E9AH	LIN	1073
0000H	1EA5H	LIN	1074	0000H	1EABH	LIN	1075
0000H	1EB1H	LIN	1076	0000H	1EBBH	LIN	1077
0000H	1EC2H	LIN	1078	0000H	1ECAH	LIN	1079
0000H	1ECFH	LIN	1080	0000H	1ED1H	LIN	1081
0000H	1ED8H	LIN	1082	0000H	1EDFH	LIN	1083
0000H	1EE2H	LIN	1084	0000H	1EF4H	LIN	1085
0000H	1EFFH	LIN	1086	0000H	1F05H	LIN	1087
0000H	1F0CH	LIN	1088	0000H	1F10H	LIN	1089
0000H	1F1AH	LIN	1090	0000H	1F1CH	LIN	1091
0000H	1F23H	LIN	1092	0000H	1F26H	LIN	1093
0000H	1F38H	LIN	1094	0000H	1F43H	LIN	1095

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0000H	1F49H	LIN	1096	0000H	1F50H	LIN	1097
0000H	1F54H	LIN	1098	0000H	1F5CH	LIN	1099
0000H	1F60H	LIN	1100	0000H	1F67H	LIN	1101
0000H	1F6AH	LIN	1102	0000H	1F73H	LIN	1103
0000H	1F78H	LIN	1104	0000H	1F7EH	LIN	1105
0000H	1F7FH	LIN	1106	0000H	1F82H	LIN	1114
0000H	1F88H	LIN	1115	0000H	1FADH	LIN	1117
0000H	1F84H	LIN	1118	0000H	1F87H	LIN	1119
0000H	1F89H	LIN	1121	0000H	1FCBH	LIN	1122
0000H	1F06H	LIN	1123	0000H	1FEEH	LIN	1124
0000H	1FF3H	LIN	1125	0000H	1FF8H	LIN	1126
0000H	1FFDH	LIN	1127	0000H	2003H	LIN	1128
0000H	200DH	LIN	1129	0000H	2017H	LIN	1131
0000H	201CH	LIN	1132	0000H	2029H	LIN	1133
0000H	2020H	LIN	1134	0000H	202FH	LIN	1135
0000H	203FH	LIN	1136	0000H	2045H	LIN	1137
0000H	2048H	LIN	1138	0000H	2055H	LIN	1139
0000H	2053H	LIN	1140	0000H	206DH	LIN	1141
0000H	2073H	LIN	1142	0000H	2076H	LIN	1143
0000H	2088H	LIN	1145	0000H	209CH	LIN	1147
0000H	20A1H	LIN	1148	0000H	20A5H	LIN	1149
0000H	20A7H	LIN	1150	0000H	20AAH	LIN	1151
0000H	20BAH	LIN	1153	0000H	20C2H	LIN	1155
0000H	20C6H	LIN	1156	0000H	20C8H	LIN	1157
0000H	20CBH	LIN	1158	0000H	20DDH	LIN	1159
0000H	20E5H	LIN	1160	0000H	20F3H	LIN	1162
0000H	20FDH	LIN	1163	0000H	210AH	LIN	1165
0000H	211DH	LIN	1168	0000H	2122H	LIN	1169
0000H	2127H	LIN	1170	0000H	2129H	LIN	1172
0000H	212CH	LIN	1173	0000H	2132H	LIN	1175
0000H	2137H	LIN	1176	0000H	2143H	LIN	1177
0000H	2148H	LIN	1178	0000H	2156H	LIN	1180
0000H	2159H	LIN	1181	0000H	215BH	LIN	1182
0000H	2169H	LIN	1184	0000H	216CH	LIN	1185
0000H	216EH	LIN	1186	0000H	217CH	LIN	1188
0000H	2183H	LIN	1189	0000H	2185H	LIN	1190
0000H	2193H	LIN	1192	0000H	2196H	LIN	1193
0000H	2198H	LIN	1194	0000H	21A6H	LIN	1196
0000H	21AAH	LIN	1197	0000H	21AAH	LIN	1198
0000H	2188H	LIN	1200	0000H	218BH	LIN	1201
0000H	21BDH	LIN	1202	0000H	21CBH	LIN	1204
0000H	21D1H	LIN	1205	0000H	21D3H	LIN	1207
0000H	21D8H	LIN	1208	0000H	21E1H	LIN	1210
0000H	21E8H	LIN	1211	0000H	21EFH	LIN	1212
0000H	21F6H	LIN	1213	0000H	21FCH	LIN	1214
0000H	2203H	LIN	1215	0000H	2209H	LIN	1216
0000H	220BH	LIN	1217	0000H	220EH	LIN	1219
0000H	2210H	LIN	1220	0000H	2210H	LIN	1222
0000H	0102H	LIN	1223				

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

SEGMENT MAP

START	STOP	LENGTH	ALIGN	NAME	CLASS
00000H	02211H	2212H	G	CODE	CODE
10000H	10107H	0108H	G	DATS	DATA

10108H	115FFH	14F2H	R	DATS	DATA
11600H	11651H	0052H	W	STACK	STACK
11652H	12006H	09B5H	W	CONST	CONST
12010H	12010H	0000H	U	??SEC	
12010H	12010H	0000H	W	MEMORY	MEMORY

GROUP MAP

ADDRESS	GROUP OR	SEGMENT NAME
00000H	CGROUP	CODE
10000H	DGROUP	DATS
		STACK
		CONST
		DATA

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