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RRRRRRRR      MM      MM      SSSSSSSS  RRRRRRRR      EEEEEEEEEEE  PPPPPPPP      000000      RRRRRRRR      TTTTTTTTTT
RRRRRRRR      MM      MM      SSSSSSSS  RRRRRRRR      EEEEEEEEEEE  PPPPPPPP      000000      RRRRRRRR      TTTTTTTTTT
RR      RR      MMMM      MMMM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RR      RR      MMMM      MMMM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RR      RR      MM      MM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RR      RR      MM      MM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RRRRRRRR      MM      MM      SSSSSS      RRRRRRRR      EEEEEEEEEEE  PPPPPPPP      00      00      RRRRRRRR      TT
RRRRRRRR      MM      MM      SSSSSS      RRRRRRRR      EEEEEEEEEEE  PPPPPPPP      00      00      RRRRRRRR      TT
RR      RR      MM      MM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RR      RR      MM      MM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RR      RR      MM      MM      SS      RR      RR      EE      PP      PP      00      00      RR      RR      TT
RR      RR      MM      MM      SSSSSSSS      RR      RR      EEEEEEEEEEE  PP      000000      RR      RR      TT
RR      RR      MM      MM      SSSSSSSS      RR      RR      EEEEEEEEEEE  PP      000000      RR      RR      TT

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LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 %title 'RMSREPORT - Handle Output for ANALYZE/RMS_FILE'
2 0002 0      module rmsreport (
3 0003 1          ident='V04-000') = begin
4 0004 1
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 Facility:      VAX/VMS Analyze Facility, Handle Reports for ANALYZE/RMS_FILE
32 0032 1
33 0033 1 Abstract:      This module is responsible for all reports from the
34 0034 1               ANALYZE/RMS_FILE command. Reports can be routed to a file
35 0035 1               and/or the terminal.
36 0036 1
37 0037 1
38 0038 1 Environment:
39 0039 1
40 0040 1 Author: Paul C. Anagnostopoulos, Creation Date: 18 February 1981
41 0041 1
42 0042 1 Modified By:
43 0043 1
44 0044 1     V03-009 DGB0055      Donald G. Blair      14-Jun-1984
45 0045 1     On ANLRMS$ OPENOUT error, rather than print the file
46 0046 1     spec from the /OUT qualifier (which may be null), print
47 0047 1     the expanded file spec derived therefrom.
48 0048 1
49 0049 1     V03-008 DGB0045      Donald G. Blair      08-May-1984
50 0050 1     Incorporate the routine ANL$EXIT_WITH_STATUS into the main
51 0051 1     routine ANL$RMS and add handling for ANL$WORST_ERROR
52 0052 1     to ANL$FORMAT_ERROR as part of fixing ANALYZRMS so
53 0053 1     it returns status correctly.
54 0054 1
55 0055 1     V03-007 RRB0003      Rowland R. Bradley    1-Jan-1984
56 0056 1     Correct "value required context" error in ANL$EXIT_WITH_STATUS
57 0057 1

```

58	0058	1	V03-006	PCA1012	Paul C. Anagnostopoulos	6-Apr-1983
59	0059	1			Add support for /NOOUTPUT qualifier.	
60	0060	1				
61	0061	1	V03-005	PCA1011	Paul C. Anagnostopoulos	1-Apr-1983
62	0062	1			Change the message prefix to ANLRMS\$ to ensure that	
63	0063	1			message symbols are unique across all ANALYZEs. This	
64	0064	1			is necessitated by the new merged message files.	
65	0065	1				
66	0066	1	V03-004	PCA1001	Paul C. Anagnostopoulos	4-Nov-1982
67	0067	1			Display the global buffer count for all files, not	
68	0068	1			just relative and indexed ones.	
69	0069	1			Add code to support the new /SUMMARY mode.	
70	0070	1				
71	0071	1	V03-003	PCA0031	Paul Anagnostopoulos	24-Mar-1982
72	0072	1			Fix error messages so they use the correct SIV value.	
73	0073	1				
74	0074	1	V03-002	PCA0012	Paul Anagnostopoulos	16-Mar-1982
75	0075	1			Remove maximum record size restriction on report file.	
76	0076	1				
77	0077	1	V03-001	PCA0011	Paul Anagnostopoulos	16-Mar-1982
78	0078	1			Include new global buffer count when formatting the	
79	0079	1			report of the file attribute area.	
80	0080	1				--

```

: 82      0081 1 %sbttl 'Module Declarations'
: 83      0082 1
: 84      0083 1  | Libraries and Requires:
: 85      0084 1  |
: 86      0085 1
: 87      0086 1  | library 'lib';
: 88      0087 1  | require 'rmsreq';
: 89      0596 1
: 90      0597 1
: 91      0598 1  | Table of Contents:
: 92      0599 1  |
: 93      0600 1
: 94      0601 1  | forward routine
: 95      0602 1      | anl$prepare_report_file: novalue,
: 96      0603 1      | anl$report_page: novalue,
: 97      0604 1      | anl$format_line: novalue,
: 98      0605 1      | anl$format_skip: novalue,
: 99      0606 1      | anl$format_error: novalue,
100     0607 1      | anl$error_count: novalue,
101     0608 1      | anl$format_flags: novalue,
102     0609 1      | anl$format_hex: novalue,
103     0610 1      | anl$format_protection_mask: novalue,
104     0611 1      | anl$format_file_attributes: novalue;
105     0612 1
106     0613 1  |
107     0614 1  | External References:
108     0615 1  |
109     0616 1
110     0617 1  | external routine
111     0618 1      | cli$get_value: addressing_mode(general),
112     0619 1      | cli$present: addressing_mode(general),
113     0620 1      | lib$lp_lines: addressing_mode(general),
114     0621 1      | lib$put_output: addressing_mode(general),
115     0622 1      | str$trim: addressing_mode(general);
116     0623 1
117     0624 1  | external
118     0625 1      | anl$gb_mode: byte,
119     0626 1      | anl$gl_fat: ref block[,byte];
120     0627 1
121     0628 1  |
122     0629 1  | Own Variables:
123     0630 1  |
124     0631 1  | To create the report file, we need a RAB, FAB, and NAM block. We also
125     0632 1  | need a second NAM block to act as the related NAM block.
126     0633 1
127     0634 1  | own
128     0635 1      | own_described_buffer(expanded_spec,nam$c_maxrss),
129     0636 1      | related_resultant_spec: block[nam$c_maxrss,byte],
130     0637 1      | related_expanded_spec: block[nam$c_maxrss,byte],
131     0638 1
132     P 0639 1      | related_nam: $nam(esa=related_expanded_spec,
133     P 0640 1      |      | ess=nam$c_maxrss,
134     F 0641 1      |      | rsa=related_resultant_spec,
135     0642 1      |      | rss=nam$c_maxrss),
136     0643 1
137     P 0644 1      | report_nam: $nam(rlf=related_nam,
138     P 0645 1      |      | esa=expanded_spec+8,

```

```

: 139      0646 1          ess=nam$c_maxrss),
: 140      0647 1
: 141      0648 1      own_described_buffer(report_file_spec,nam$c_maxrss),
: 142      0649 1
: 143      P 0650 1      report_fab: $fab(fac=put,
: 144      P 0651 1          fop=ofp,
: 145      P 0652 1          nam=report_nam,
: 146      P 0653 1          org=seq,
: 147      P 0654 1          rat=cr,
: 148      0655 1          rfm=var),
: 149      0656 1
: 150      P 0657 1      report_rab: $rab(fab=report_fab,
: 151      0658 1          rac=seq);
: 152      0659 1
: 153      0660 1      ! The following variables are needed to format the report.
: 154      0661 1
: 155      0662 1      own
: 156      0663 1          generating_report: byte,
: 157      0664 1          report_heading_msg: long,
: 158      0665 1          own_described_buffer(input_file_spec,nam$c_maxrss),
: 159      0666 1          page_number: long,
: 160      0667 1          line_counter: signed long;
: 161      0668 1
: 162      0669 1      ! We need some variables for keeping track of errors. One tells us where
: 163      0670 1      ! the analysis report is going. We also count the number of errors.
: 164      0671 1
: 165      0672 1      own
: 166      0673 1          report_to_file: byte,
: 167      0674 1          error_count: long initial(0);

```

```

: 169 0575 1 %sbttl 'ANL$PREPARE_REPORT_FILE - Prepare Report File'
: 170 0676 1 ++
: 171 0677 1 Functional Description:
: 172 0678 1 This routine is called whenever we begin the analysis of a new
: 173 0679 1 file. On the first call, it creates a report file to receive
: 174 0680 1 the analysis. On subsequent calls, if any, it just starts a new
: 175 0681 1 report in the file.
: 176 0682 1
: 177 0683 1 Formal Parameters:
: 178 0684 1 heading_msg An optional message code specifying the report
: 179 0685 1 page heading message.
: 180 0686 1 input_spec The resultant spec of the input file we are analyzing.
: 181 0687 1
: 182 0688 1 Implicit Inputs:
: 183 0689 1 global data
: 184 0690 1
: 185 0691 1 Implicit Outputs:
: 186 0692 1 global data
: 187 0693 1
: 188 0694 1 Returned Value:
: 189 0695 1 none
: 190 0696 1
: 191 0697 1 Side Effects:
: 192 0698 1
: 193 0699 1 --
: 194 0700 1
: 195 0701 1
: 196 0702 2 global routine anl$prepare_report_file(heading_msg,input_spec): novalue = begin
: 197 0703 2
: 198 0704 2 bind
: 199 0705 2 input_spec_dsc = .input_spec: descriptor;
: 200 0706 2
: 201 0707 2 own
: 202 0708 2 first_call: byte initial(true);
: 203 0709 2
: 204 0710 2 local
: 205 0711 2 status: long;
: 206 0712 2
: 207 0713 2
: 208 0714 2
: 209 0715 2 ! Save the input file spec for use in the report page headings.
: 210 0716 2
: 211 0717 2 input_file_spec[len] = .input_spec_dsc[len];
: 212 0718 2 ch$move(.input_spec_dsc[len],.input_spec_dsc[ptr],.input_file_spec[ptr]);
: 213 0719 2
: 214 0720 2 ! See if we are to generate a report. If not, we can just leave.
: 215 0721 2
: 216 0722 2 generating_report = cli$present(describe('OUTPUT'));
: 217 0723 2 if not .generating_report then
: 218 0724 2 return;
: 219 0725 2
: 220 0726 2 ! If this is the first call, then we need to create the report file and
: 221 0727 2 ! prepare for one or more analysis reports.
: 222 0728 2
: 223 0729 3 if .first_call then (
: 224 0730 3
: 225 0731 3 ! We begin by obtaining the value of the /OUTPUT qualifier. This will
```

```

: 226 0732 3 ! tell us the name of the desired report file. Trim the name for use
: 227 0733 3 ! in error messages.
: 228 0734 3
: 229 0735 3 report_file = cli$get_value(describe('OUTPUT',,report_file_spec);
: 230 0736 3 str$trim(report_file_spec,report_file_spec,report_file_spec);
: 231 0737 3
: 232 0738 3 ! Now we split up depending on the mode of operation.
: 233 0739 3
: 234 0740 3 selectoneu .anl$gb_mode of set
: 235 0741 3
: 236 0742 3 [anl$k_check,
: 237 0743 3 anl$k_statistics,
: 238 0744 3 anl$k_summary]:
: 239 0745 3
: 240 0746 3 ! In these modes, the user specifies the name of the
: 241 0747 3 ! report file, and we use ANALYZE.ANL as the defaults.
: 242 0748 3 ! If the user didn't include a value on the /OUTPUT qualifier,
: 243 0749 3 ! then we just put the report on the terminal.
: 244 0750 3
: 245 0751 4 if .report_to_file then (
: 246 0752 4 report_fab[fab$l_fna] = .report_file_spec[ptr];
: 247 0753 4 report_fab[fab$b_fns] = .report_file_spec[len];
: 248 0754 4 report_fab[fab$l_dna] = uplit byte('ANALYZE.ANL');
: 249 0755 4 report_fab[fab$b_dns] = 11;
: 250 0756 4 ) else (
: 251 0757 4 report_fab[fab$l_fna] = uplit byte('SYS$OUTPUT');
: 252 0758 4 report_fab[fab$b_fns] = 10;
: 253 0759 3 );
: 254 0760 3 [anl$k_fdl]:
: 255 0761 3
: 256 0762 3 ! In this mode, the user specifies the name of the FDL
: 257 0763 3 ! file, we use .FDL as the default, and we use a related
: 258 0764 3 ! name equal to the input file spec. This produces the
: 259 0765 3 ! standard related name situation where the output file
: 260 0766 3 ! has the same name as the input file.
: 261 0767 3
: 262 0768 3
: 263 0769 3 ! To parse the input file name, we use the report FAB
: 264 0770 3 ! temporarily so we can do a $PARSE and a $SEARCH into
: 265 0771 3 ! the related NAM block.
: 266 0772 3
: 267 0773 4 (report_fab[fab$l_fna] = .input_spec_dsc[ptr];
: 268 0774 4 report_fab[fab$b_fns] = .input_spec_dsc[len];
: 269 0775 4 report_fab[fab$l_nam] = related_nam;
: 270 0776 4 status = $parse(fab=report_fab);
: 271 0777 4 check (.status, .status);
: 272 0778 4 status = $search(fab=report_fab);
: 273 0779 4 check (.status, .status);
: 274 0780 4
: 275 0781 4 ! Now we can set up the blocks for creation of the report file.
: 276 0782 4 ! The FAB specifies output file parse, as required.
: 277 0783 4
: 278 0784 4 report_fab[fab$l_fna] = .report_file_spec[ptr];
: 279 0785 4 report_fab[fab$b_fns] = .report_file_spec[len];
: 280 0786 4 report_fab[fab$l_dna] = uplit byte('.FDL');
: 281 0787 4 report_fab[fab$b_dns] = 4;
: 282 0788 4 report_fab[fab$l_nam] = report_nam;);
```



```

283 0789 3
284 0790 3 [anl$k_interactive]:
285 0791 3
286 0792 3 ! In this mode, the user specifies the name of the
287 0793 3 ! transcript file, and we use ANALYZE.ANL as the defaults.
288 0794 3 ! If the user didn't include a value on the /OUTPUT qualifier,
289 0795 3 ! then we don't produce a transcript.
290 0796 3
291 0797 4 if .report_to_file then (
292 0798 4     report_fab[fab$l_fna] = .report_file_spec[ptr];
293 0799 4     report_fab[fab$b_fns] = .report_file_spec[len];
294 0800 4     report_fab[fab$l_dna] = uplit byte('ANALYZE.ANL');
295 0801 4     report_fab[fab$b_dns] = 11;
296 0802 3 ) else
297 0803 3     return;
298 0804 3
299 0805 3 tes;
300 0806 3
301 0807 3 . Now we can create the report file and connect the RAB.
302 0808 3
303 0809 3 status = $create(fab=report_fab);
304 0810 3 expanded_spec[len] = .report_nam[nam$b_esl];
305 0811 3 check (.status, anlrm;$_openout,1,expanded_spec,.status,.report_fab[fab$l_stv]);
306 0812 3 status = $connect(rab=report_rab);
307 0813 3 check (.status, .status);
308 0814 3
309 0815 3 ! Save the heading message code.
310 0816 3
311 0817 3 report_heading_msg = .heading_msg;
312 0818 3
313 0819 3 first_call = false;
314 0820 2 );
315 0821 2
316 0822 2 ! Begin the report by resetting the page number and starting a new page.
317 0823 2
318 0824 2 page_number = 0;
319 0825 2 anl$report_page();
320 0826 2
321 0827 2 return;
322 0828 2
323 0829 1 end;

```

```

.TITLE RMSREPORT RMSREPORT - Handle Output for ANALYZE
/RMS_FILE
.IDENT \V04-000\
.PSECT $PLITS,NOWRT,NOEXE,2
54 55 50 54 55 4F 00000 P.AAB: .ASCII \OUTPUT\
00006 00006 .BLKB 2
00000006 00008 P.AAA: .LONG 6
00000000 0000C .ADDRESS P.AAB
54 55 50 54 55 4F 00010 P.AAD: .ASCII \OUTPUT\
00016 00016 .BLKB 2
00000006 00018 P.AAC: .LONG 6
00000000 0001C .ADDRESS P.AAD

```

```
4C 4E 41 2E 45 5A 59 4C 41 4E 41 00020 P.AAE: .ASCII \ANALYZE.ANL\  
54 55 50 54 55 4F 24 53 59 53 0002B P.AAF: .ASCII \SYS$OUTPUT\  
4C 44 46 2E 00035 P.AAG: .ASCII \.FDL\  
4C 4E 41 2E 45 5A 59 4C 41 4E 41 00039 P.AAH: .ASCII \ANALYZE.ANL\  
.....
```

.PSECT \$OWNS,NOEXE,2

```
000000FF 00000 EXPANDED_SPEC:  
00000000' 00004 .LONG 255  
00008 .ADDRESS EXPANDED_SPEC+8  
00107 .BLKB 255  
00108 .BLKB 1  
00108 RELATED_RESULTANT_SPEC:  
00207 .BLKB 255  
00208 .BLKB 1  
00208 RELATED_EXPANDED_SPEC:  
00307 .BLKB 255  
00307 .BLKB 1  
02 00308 RELATED_NAM:  
60 00309 .BYTE 2  
FF 0030A .BYTE 96  
00 0030B .BYTE -1  
00000000' 0030C .BYTE 0  
00 00310 .ADDRESS RELATED_RESULTANT_SPEC  
00 00311 .BYTE 0  
FF 00312 .BYTE 0  
00 00313 .BYTE -1  
00000000' 00314 .BYTE 0  
00000000 00318 .ADDRESS RELATED_EXPANDED_SPEC  
0000# 0031C .LONG 0  
0000# 0032C .WORD 0[8]  
0000# 00332 .WORD 0[3]  
00000000 00338 .WORD 0[3]  
00000000 0033C .LONG 0  
00 00340 .LONG 0  
00 00341 .BYTE 0  
00 00342 .BYTE 0  
00 00343 .BYTE 0  
00 00344 .BYTE 0  
00 00345 .BYTE 0  
00# 00346 .BYTE 0[2]  
00000000 00348 .LONG 0  
00000000 0034C .LONG 0  
00000000 00350 .LONG 0  
00000000 00354 .LONG 0  
00000000 00358 .LONG 0  
00000000 0035C .LONG 0  
00000000# 00360 .LONG C  
02 00368 REPORT_NAM:  
60 00369 .LONG 0[2]  
00 0036A .BYTE 2  
00 0036B .BYTE 96  
00000000 0036C .BYTE 0  
00 00370 .BYTE 0  
00 00371 .BYTE 0  
.....
```

```
FF 00372 .BYTE -1
00 00373 .BYTE 0
00000000' 00374 .ADDRESS EXPANDED_SPEC+8
00000000' 00378 .ADDRESS RELATED_NAM
0000# 0037C .WORD 0[8]
0000# 0038C .WORD 0[3]
0000# 00392 .WORD 0[3]
00000000 00398 .LONG 0
00000000 0039C .LONG 0
00 003A0 .BYTE 0
00 003A1 .BYTE 0
00 003A2 .BYTE 0
00 003A3 .BYTE 0
00 003A4 .BYTE 0
00 003A5 .BYTE 0
00# 003A6 .BYTE 0[2]
00000000 003A8 .LONG 0
00000000 003AC .LONG 0
00000000 003B0 .LONG 0
00000000 003B4 .LONG 0
00000000 003B8 .LONG 0
00000000 003BC .LONG 0
00000000# 003C0 .LONG 0[2]
000000FF 003C8 REPORT_FILE_SPEC:
00000000' 003CC .ADDRESS REPORT_FILE_SPEC+8
003D0 .BLKB 255
004CF .BLKB 1
03 004D0 REPORT_FAB:
50 004D1 .BYTE 3
0000 004D2 .BYTE 80
20000000 004D4 .WORD 0
00000000 004D8 .LONG 536870912
00000000 004DC .LONG 0
00000000 004E0 .LONG 0
0000 004E4 .WORD 0
01 004E6 .BYTE 1
00 004E7 .BYTE 0
00000000 004E8 .LONG 0
00 004EC .BYTE 0
00 004ED .BYTE 0
02 004EE .BYTE 2
02 004EF .BYTE 2
00000000 004F0 .LONG 0
00000000 004F4 .LONG 0
00000000' 004F8 .ADDRESS REPORT_NAM
00000000 004FC .LONG C
00000000 00500 .LONG 0
00 00504 .BYTE 0
00 00505 .BYTE 0
0000 00506 .WORD 0
00000000 00508 .LONG 0
0000 0050C .WORD 0
00 0050E .BYTE 0
00 0050F .BYTE 0
00000000 00510 .LONG 0
```

.....

```
00000000 00514 .LONG 0
      0000 00518 .WORD 0
      00 0051A .BYTE 0
      00 0051B .BYTE 0
00000000 0051C .LONG 0
      01 00520 REPORT_RAB:
      .BYTE 1
      44 00521 .BYTE 68
      0000 00522 .WORD 0
00000000 00524 .LONG 0
00000000 00528 .LONG 0
00000000 0052C .LONG 0
      0000# 00530 .WORD 0[3]
      0000 00536 .WORD 0
00000000 00538 .LONG 0
      0000 0053C .WORD 0
      00 0053E .BYTE 0
      00 0053F .BYTE 0
      0000 00540 .WORD 0
      0000 00542 .WORD 0
00000000 00544 .LONG 0
00000000 00548 .LONG 0
00000000 0054C .LONG 0
00000000 00550 .LONG 0
      00 00554 .BYTE 0
      00 00555 .BYTE 0
      00 00556 .BYTE 0
      00 00557 .BYTE 0
00000000 00558 .LONG 0
00000000' 0055C .ADDRESS REPORT_FAB
00000000 00560 .LONG 0
      00564 GENERATING REPORT:
      .BLKB 1
      00565 .BLKB 3
      00568 REPORT_HEADING_MSG:
      .BLKB 4
000000FF 0056C INPUT_FILE_SPEC:
      .LONG 255
00000000' 00570 .ADDRESS INPUT_FILE_SPEC+8
      00574 .BLKB 255
      00673 .BLKB 1
      00674 PAGE_NUMBER:
      .BLKB 4
      00678 LINE_COUNTER:
      .BLKB 4
      0067C REPORT_TO_FILE:
      .BLKB 1
      0067D .BLKB 3
00000000 00680 ERROR_COUNT:
      .LONG 0
      01 00684 FIRST_CALL:
      .BYTE 1
      .EXTRN ANLRMSS_OK, ANLRMSS_ALLOC
      .EXTRN ANLRMSS_ANYTHING
      .EXTRN ANLRMSS_BACKUP, ANLRMSS_BKT
      .EXTRN ANLRMSS_BKTAREA
```

.EXTRN ANLRM\$\$_BKTCHECK
.EXTRN ANLRM\$\$_BKTFLAGS
.EXTRN ANLRM\$\$_BKTFREE
.EXTRN ANLRM\$\$_BKTKEY, ANLRM\$\$_BKTLEVEL
.EXTRN ANLRM\$\$_BKTNEXT
.EXTRN ANLRM\$\$_BKTPTRSIZE
.EXTRN ANLRM\$\$_BKTRECID
.EXTRN ANLRM\$\$_BKTRECID3
.EXTRN ANLRM\$\$_BKTSAMPLE
.EXTRN ANLRM\$\$_BKTVBNFREE
.EXTRN ANLRM\$\$_BUCKETSIZE
.EXTRN ANLRM\$\$_CELL, ANLRM\$\$_CELldata
.EXTRN ANLRM\$\$_CELLFLAGS
.EXTRN ANLRM\$\$_CHECKHDG
.EXTRN ANLRM\$\$_CONTIG, ANLRM\$\$_CREATION
.EXTRN ANLRM\$\$_CTLSIZE
.EXTRN ANLRM\$\$_DATAREC
.EXTRN ANLRM\$\$_DATABKTVBN
.EXTRN ANLRM\$\$_DUMPHEADING
.EXTRN ANLRM\$\$_EOF, ANLRM\$\$_ERRORCOUNT
.EXTRN ANLRM\$\$_ERRORNONE
.EXTRN ANLRM\$\$_ERRORS, ANLRM\$\$_EXPIRATION
.EXTRN ANLRM\$\$_FILEATTR
.EXTRN ANLRM\$\$_FILEHDR
.EXTRN ANLRM\$\$_FILEID, ANLRM\$\$_FILEORG
.EXTRN ANLRM\$\$_FILESPEC
.EXTRN ANLRM\$\$_FLAG, ANLRM\$\$_GLOBALBUFS
.EXTRN ANLRM\$\$_HEXDATA
.EXTRN ANLRM\$\$_HEXHEADING1
.EXTRN ANLRM\$\$_HEXHEADING2
.EXTRN ANLRM\$\$_IDXAREA
.EXTRN ANLRM\$\$_IDXAREAALLOC
.EXTRN ANLRM\$\$_IDXAREABKTSZ
.EXTRN ANLRM\$\$_IDXAREANEXT
.EXTRN ANLRM\$\$_IDXAREANOALLOC
.EXTRN ANLRM\$\$_IDXAREAQTY
.EXTRN ANLRM\$\$_IDXAREARECL
.EXTRN ANLRM\$\$_IDXAREAUSED
.EXTRN ANLRM\$\$_IDXKEY, ANLRM\$\$_IDXKEYAREAS
.EXTRN ANLRM\$\$_IDXKEYBKTSZ
.EXTRN ANLRM\$\$_IDXKEYBYTES
.EXTRN ANLRM\$\$_IDXKEYTYPE
.EXTRN ANLRM\$\$_IDXKEYDATAVBN
.EXTRN ANLRM\$\$_IDXKEYFILL
.EXTRN ANLRM\$\$_IDXKEYFLAGS
.EXTRN ANLRM\$\$_IDXKEYKEYSZ
.EXTRN ANLRM\$\$_IDXKEYNAME
.EXTRN ANLRM\$\$_IDXKEYNEXT
.EXTRN ANLRM\$\$_IDXKEYMINREC
.EXTRN ANLRM\$\$_IDXKEYNULL
.EXTRN ANLRM\$\$_IDXKEYPOSS
.EXTRN ANLRM\$\$_IDXKEYROOTLVL
.EXTRN ANLRM\$\$_IDXKEYROOTVBN
.EXTRN ANLRM\$\$_IDXKEYSEGS
.EXTRN ANLRM\$\$_IDXKEYSIZES
.EXTRN ANLRM\$\$_IDXPRIMREC
.EXTRN ANLRM\$\$_IDXPRIMRECFLAGS

.EXTRN ANLRM\$\$_IDXPRIMRECID
.EXTRN ANLRM\$\$_IDXPRIMRECLN
.EXTRN ANLRM\$\$_IDXPRIMRECRRV
.EXTRN ANLRM\$\$_IDXPROAREAS
.EXTRN ANLRM\$\$_IDXPROLOG
.EXTRN ANLRM\$\$_IDXREC, ANLRM\$\$_IDXREC PTR
.EXTRN ANLRM\$\$_IDXSIDR
.EXTRN ANLRM\$\$_IDXSIDRDUPCNT
.EXTRN ANLRM\$\$_IDXSIDRFLAGS
.EXTRN ANLRM\$\$_IDXSIDRRECID
.EXTRN ANLRM\$\$_IDXSIDRPTRFLAGS
.EXTRN ANLRM\$\$_IDXSIDRPTRREF
.EXTRN ANLRM\$\$_INTERCOMMAND
.EXTRN ANLRM\$\$_INTERHDG
.EXTRN ANLRM\$\$_LONGREC
.EXTRN ANLRM\$\$_MAXRECSIZE
.EXTRN ANLRM\$\$_NOBACKUP
.EXTRN ANLRM\$\$_NOEXPIRATION
.EXTRN ANLRM\$\$_NOSPANFILLER
.EXTRN ANLRM\$\$_PERFORM
.EXTRN ANLRM\$\$_PROLOGFLAGS
.EXTRN ANLRM\$\$_PROLOGVER
.EXTRN ANLRM\$\$_PROT, ANLRM\$\$_RECATTR
.EXTRN ANLRM\$\$_RECFMT, ANLRM\$\$_RECLAIMBKT
.EXTRN ANLRM\$\$_RELBUCKET
.EXTRN ANLRM\$\$_RELEOFVBN
.EXTRN ANLRM\$\$_RELMAXREC
.EXTRN ANLRM\$\$_RELPROLOG
.EXTRN ANLRM\$\$_RELIAB, ANLRM\$\$_REVISION
.EXTRN ANLRM\$\$_STATHDG
.EXTRN ANLRM\$\$_SUMMARYHDG
.EXTRN ANLRM\$\$_OWNERUIC
.EXTRN ANLRM\$\$_JNL, ANLRM\$\$_AIJNL
.EXTRN ANLRM\$\$_BIJNL, ANLRM\$\$_ATJNL
.EXTRN ANLRM\$\$_ATTOP, ANLRM\$\$_BADCMD
.EXTRN ANLRM\$\$_BADPATH
.EXTRN ANLRM\$\$_BADVBN, ANLRM\$\$_DOWNHELP
.EXTRN ANLRM\$\$_DOWNPATH
.EXTRN ANLRM\$\$_EMPTYBKT
.EXTRN ANLRM\$\$_NODATA, ANLRM\$\$_NODOWN
.EXTRN ANLRM\$\$_NONEXT, ANLRM\$\$_NORECLAIMED
.EXTRN ANLRM\$\$_NORECS, ANLRM\$\$_NORRV
.EXTRN ANLRM\$\$_RESTDONE
.EXTRN ANLRM\$\$_STACKFULL
.EXTRN ANLRM\$\$_UNINITINDEX
.EXTRN ANLRM\$\$_FDLIDENT
.EXTRN ANLRM\$\$_FDLSYSTEM
.EXTRN ANLRM\$\$_FDLSOURCE
.EXTRN ANLRM\$\$_FDLFILE
.EXTRN ANLRM\$\$_FDLALLOC
.EXTRN ANLRM\$\$_FDLNOALLOC
.EXTRN ANLRM\$\$_FDLBESTTRY
.EXTRN ANLRM\$\$_FDLBUCKETSIZE
.EXTRN ANLRM\$\$_FDLCLUSTERSIZE
.EXTRN ANLRM\$\$_FDLCONTIG
.EXTRN ANLRM\$\$_FDLEXTENSION
.EXTRN ANLRM\$\$_FDLGLOBALBUFS

.EXTRN ANLRMSS_FDLMAXRECORD
.EXTRN ANLRMSS_FDLFILENAME
.EXTRN ANLRMSS_FDLORG, ANLRMSS_FDLOWNER
.EXTRN ANLRMSS_FDLPROTECTION
.EXTRN ANLRMSS_FDLRECORD
.EXTRN ANLRMSS_FDLSPAN
.EXTRN ANLRMSS_FDLCC, ANLRMSS_FDLVFC SIZE
.EXTRN ANLRMSS_FDLFORMAT
.EXTRN ANLRMSS_FDL SIZE
.EXTRN ANLRMSS_FDLAREA
.EXTRN ANLRMSS_FDLKEY, ANLRMSS_FDLCHANGES
.EXTRN ANLRMSS_FDLDATAAREA
.EXTRN ANLRMSS_FDLDATAFILL
.EXTRN ANLRMSS_FDLDATAKEYCOMPB
.EXTRN ANLRMSS_FDLDATARECCOMP
.EXTRN ANLRMSS_FDLDUPS
.EXTRN ANLRMSS_FDLINDEXAREA
.EXTRN ANLRMSS_FDLINDEXCOMPB
.EXTRN ANLRMSS_FDLINDEXFILL
.EXTRN ANLRMSS_FDLL1INDEXAREA
.EXTRN ANLRMSS_FDLKEYNAME
.EXTRN ANLRMSS_FDLNORECS
.EXTRN ANLRMSS_FDLNULLKEY
.EXTRN ANLRMSS_FDLNULLVALUE
.EXTRN ANLRMSS_FDLPROLOG
.EXTRN ANLRMSS_FDLSEGLENGTH
.EXTRN ANLRMSS_FDLSEGPOS
.EXTRN ANLRMSS_FDLSEGTYPE
.EXTRN ANLRMSS_FDLANALAREA
.EXTRN ANLRMSS_FDLRECL
.EXTRN ANLRMSS_FDLANALKEY
.EXTRN ANLRMSS_FDLDATAKEYCOMP
.EXTRN ANLRMSS_FDLDATARECCOMP
.EXTRN ANLRMSS_FDLDATARECS
.EXTRN ANLRMSS_FDLDATASPACE
.EXTRN ANLRMSS_FDLDEPTH
.EXTRN ANLRMSS_FDLDUPSPER
.EXTRN ANLRMSS_FDLIDXCOMP
.EXTRN ANLRMSS_FDLIDXFILL
.EXTRN ANLRMSS_FDLIDXSPACE
.EXTRN ANLRMSS_FDLIDL1RECS
.EXTRN ANLRMSS_FDLDATALENMEAN
.EXTRN ANLRMSS_FDLIDLLENMEAN
.EXTRN ANLRMSS_STATAREA
.EXTRN ANLRMSS_STATRECL
.EXTRN ANLRMSS_STATKEY
.EXTRN ANLRMSS_STATDEPTH
.EXTRN ANLRMSS_STATIDL1RECS
.EXTRN ANLRMSS_STATIDLLENMEAN
.EXTRN ANLRMSS_STATIDXSPACE
.EXTRN ANLRMSS_STATIDXFILL
.EXTRN ANLRMSS_STATIDXCOMP
.EXTRN ANLRMSS_STATDATARECS
.EXTRN ANLRMSS_STATDUPSPER
.EXTRN ANLRMSS_STATDATALENMEAN
.EXTRN ANLRMSS_STATDATASPACE
.EXTRN ANLRMSS_STATDATAFILL

.EXTRN ANLRM\$\$_STATDATAKEYCOMP
.EXTRN ANLRM\$\$_STATDATARECCOMP
.EXTRN ANLRM\$\$_STATEFFICIENCY
.EXTRN ANLRM\$\$_BADAREA1ST2
.EXTRN ANLRM\$\$_BADAREABKTSIZE
.EXTRN ANLRM\$\$_BADAREAFIT
.EXTRN ANLRM\$\$_BADAREAID
.EXTRN ANLRM\$\$_BADAREANEXT
.EXTRN ANLRM\$\$_BADAREAROOT
.EXTRN ANLRM\$\$_BADAREAUSED
.EXTRN ANLRM\$\$_BADBKTAREAID
.EXTRN ANLRM\$\$_BADBKTCHECK
.EXTRN ANLRM\$\$_BADBKTFREE
.EXTRN ANLRM\$\$_BADBKTKEYID
.EXTRN ANLRM\$\$_BADBKTLEVEL
.EXTRN ANLRM\$\$_BADBKTROOTBIT
.EXTRN ANLRM\$\$_BADBKTSAMPLE
.EXTRN ANLRM\$\$_BADCELLFIT
.EXTRN ANLRM\$\$_BADCHECKSUM
.EXTRN ANLRM\$\$_BADDATARECBITS
.EXTRN ANLRM\$\$_BADDATARECFIT
.EXTRN ANLRM\$\$_BADDATARECPS
.EXTRN ANLRM\$\$_BAD3IDXKEYFIT
.EXTRN ANLRM\$\$_BADIDXLASTKEY
.EXTRN ANLRM\$\$_BADIDXORDER
.EXTRN ANLRM\$\$_BADIDXRECBITS
.EXTRN ANLRM\$\$_BADIDXRECFIT
.EXTRN ANLRM\$\$_BADIDXRECPS
.EXTRN ANLRM\$\$_BADKEYAREAID
.EXTRN ANLRM\$\$_BADKEYDATABKT
.EXTRN ANLRM\$\$_BADKEYDATAFIT
.EXTRN ANLRM\$\$_BADKEYDATATYPE
.EXTRN ANLRM\$\$_BADKEYIDXBKT
.EXTRN ANLRM\$\$_BADKEYFILL
.EXTRN ANLRM\$\$_BADKEYFIT
.EXTRN ANLRM\$\$_BADKEYREFID
.EXTRN ANLRM\$\$_BADKEYROOTLEVEL
.EXTRN ANLRM\$\$_BADKEYSEGCOUNT
.EXTRN ANLRM\$\$_BADKEYSEGVEC
.EXTRN ANLRM\$\$_BADKEYSUMMARY
.EXTRN ANLRM\$\$_BADREADNOPAR
.EXTRN ANLRM\$\$_BADREADPAR
.EXTRN ANLRM\$\$_BADSIDRDUPCT
.EXTRN ANLRM\$\$_BADSIDRPTRFIT
.EXTRN ANLRM\$\$_BADSIDRPTSZ
.EXTRN ANLRM\$\$_BADSIDRSIZE
.EXTRN ANLRM\$\$_BADSTREAMEOF
.EXTRN ANLRM\$\$_BADVBNFREE
.EXTRN ANLRM\$\$_BKTLOOP
.EXTRN ANLRM\$\$_EXTENDERR
.EXTRN ANLRM\$\$_FLAGERROR
.EXTRN ANLRM\$\$_MISSINGBKT
.EXTRN ANLRM\$\$_NOTOK, ANLRM\$\$_SPANERROR
.EXTRN ANLRM\$\$_TOOMANYRECS
.EXTRN ANLRM\$\$_UNWIND, ANLRM\$\$_VFCTOOSHORT
.EXTRN ANLRM\$\$_CACHEFULL
.EXTRN ANLRM\$\$_CACHERELFAIL

									.EXTRN ANLRMSS FACILITY	
									.EXTRN CLISGET-VALUE, CLISPRESENT	
									.EXTRN LIB\$LP LINES, LIB\$PUT-OUTPUT	
									.EXTRN STR\$TRIM, ANL\$GB MODE	
									.EXTRN ANL\$GL FAT, SYSSPARSE	
									.EXTRN SYSSSEARCH, SYSSCREATE	
									.EXTRN SYSSCONNECT	
								.PSECT \$CODE\$,NOWRT,2		
									.ENTRY ANL\$PREPARE_REPORT_FILE, Save R2,R3,R4,R5,-	0702
									R6,R7,R8,R9	
									MOVAB P.AAA, R9	
									MOVAB LIB\$SIGNAL, R8	
									MOVAB REPORT_FILE_SPEC, R7	
									MOVL INPUT_SPEC, R6	0705
01A8	D7	01A4	C7						MOVW (R6), INPUT FILE SPEC	0717
		04	B6						MOVC3 (R6), @4(R6), @INPUT_FILE_SPEC+4	0718
									PUSHL R9	0722
		00000000G	00						CALLS #1, CLISPRESENT	
		019C	C7						MOVB R0, GENERATING REPORT	
			01	019C	C7				BLBS GENERATING_REPORT, 1\$	0723
									RET	
			03	02BC	C7			1\$:	BLBS FIRST_CALL, 2\$	0729
					0125				BRW 14\$	
								2\$:	PUSHL R7	0735
									PUSHAB P.AAC	
		00000000G	00	10	A9				CALLS #2, CLISGET VALUE	
		02B4	C7						MOVB R0, REPORT_TO_FILE	
									PUSHL R7	0736
									PUSHL R7	
									PUSHL R7	
		00000000G	00						CALLS #3, STR\$TRIM	
			50	0000G	CF				MOVZBL ANL\$GB_MODE, R0	0740
			01						CMPB R0, #1	0742
									BEQL 3\$	
			04						CMPB R0, #4	
									BLSSU 5\$	
			05						CMPB R0, #5	
									BGTRU 5\$	
			14	02B4	C7			3\$:	BLBC REPORT_TO_FILE, 4\$	0751
		0134	C7	04	A7				MOVL REPORT_FILE_SPEC+4, REPORT_FAB+44	0752
		013C	C7						MOVB REPORT_FILE_SPEC, REPORT_FAB+52	0753
		0138	C7	18	A9				MOVAB P.AAE, REPORT_FAB+48	0754
									BRW 10\$	0755
		0134	C7	23	A9			4\$:	MOVAB P.AAF, REPORT_FAB+44	0757
		013C	C7						MOVB #10, REPORT_FAB+52	0758
									BRB 8\$	0751
			02					5\$:	CMPB R0, #2	0761
									BNEQ 9\$	
		0134	C7	04	A6				MOVL 4(R6), REPORT_FAB+44	0773
		013C	C7						MOVB (R6), REPORT_FAB+52	0774
		0130	C7	FF40	C7				MOVAB RELATED_NAM, REPORT_FAB+40	0775
				0108	C7				PUSHAB REPORT_FAB	0776
		00000000G	00						CALLS #1, SYSSPARSE	
			52						MOVL R0, STATUS	
			05						BLBS STATUS, 6\$	0777

	66		52	DD	000BF		PUSHL	STATUS		
		0108	01	FB	000C1		CALLS	#1, LIB\$SIGNAL		
			C7	9F	000C4	6\$:	PUSHAB	REPORT_FAB		0778
00000000G	00		01	FB	000C8		CALLS	#1, SY\$SEARCH		
	52		50	DO	000CF		MOVL	R0, STATUS		
	05		52	E8	000D2		BLBS	STATUS, 7\$		0779
			52	DD	000D5		PUSHL	STATUS		
	68		01	FB	000D7		CALLS	#1, LIB\$SIGNAL		
0134	C7	04	A7	DO	000DA	7\$:	MOVL	REPORT_FILE_SPEC+4, REPORT_FAB+44		0784
013C	C7		67	90	000E0		MOVB	REPORT_FILE_SPEC, REPORT_FAB+52		0785
0138	C7	2D	A9	9E	000E5		MOVAB	P.AAG, REPORT_FAB+48		0786
013D	C7		04	90	000EB		MOVAB	#4, REPORT_FAB+53		0787
0130	C7	A0	A7	9E	000F0		MOVAB	REPORT_NAM, REPORT_FAB+40		0788
			20	11	000F6	8\$:	BRB	11\$		0740
	03		50	91	000F8	9\$:	CMPB	R0, #3		0790
			1B	12	000FB		BNEQ	11\$		
	68	02B4	C7	E9	000FD		BLBC	REPORT_TO_FILE, 15\$		0797
0134	C7	04	A7	DO	00102		MOVL	REPORT_FILE_SPEC+4, REPORT_FAB+44		0798
013C	C7		67	90	00108		MOVB	REPORT_FILE_SPEC, REPORT_FAB+52		0799
0138	C7	31	A9	9E	0010D		MOVAB	P.AAH, REPORT_FAB+48		0800
013D	C7		0B	90	00113	10\$:	MOVB	#11, REPORT_FAB+53		0801
		0108	C7	9F	00118	11\$:	PUSHAB	REPORT_FAB		0809
00000000G	00		01	FB	0011C		CALLS	#1, SY\$CREATE		
	52		50	DO	00123		MOVL	R0, STATUS		
FC38	C7	AB	A7	9B	00126		MOVZBW	REPORT_NAM+11, EXPANDED_SPEC		0810
	15		52	E8	0012C		BLBS	STATUS, 12\$		0811
		0114	C7	DD	0012F		PUSHL	REPORT_FAB+12		
			52	DD	00133		PUSHL	STATUS		
		FC38	C7	9F	00135		PUSHAB	EXPANDED_SPEC		
			01	DD	00139		PUSHL	#1		
		00B110A4	8F	DD	0013B		PUSHL	#11604132		
	68		05	FB	00141		CALLS	#5, LIB\$SIGNAL		
		0158	C7	9F	00144	12\$:	PUSHAB	REPORT_RAB		0812
00000000G	00		01	FB	00148		CALLS	#1, SY\$CONNECT		
	52		50	DO	0014F		MOVL	R0, STATUS		
	05		52	E8	00152		BLBS	STATUS, 13\$		0813
			52	DD	00155		PUSHL	STATUS		
	68		01	FB	00157		CALLS	#1, LIB\$SIGNAL		
01A0	C7	04	AC	DO	0015A	13\$:	MOVL	HEADING_MSG, REPORT_HEADING_MSG		0817
		02BC	C7	94	00160		CLRB	FIRST_CALL		0819
		02AC	C7	D4	00164	14\$:	CLRL	PAGE_NUMBER		0824
0000V	CF		00	FB	00168		CALLS	#0, ANL\$REPORT_PAGE		0825
			04	0016D	15\$:		RET			0829

; Routine Size: 366 bytes, Routine Base: \$CODE\$ + 0000

```

: 325 0830 1 %sbttl 'ANL$REPORT_PAGE - Eject Page in Report'
: 326 0831 1 ++
: 327 0832 1 Functional Description:
: 328 0833 1 This routine is called to eject the page in a report and print
: 329 0834 1 the heading on the new page.
: 330 0835 1
: 331 0836 1 Formal Parameters:
: 332 0837 1 none
: 333 0838 1
: 334 0839 1 Implicit Inputs:
: 335 0840 1 global data
: 336 0841 1
: 337 0842 1 Implicit Outputs:
: 338 0843 1 global data
: 339 0844 1
: 340 0845 1 Returned Value:
: 341 0846 1 none
: 342 0847 1
: 343 0848 1 Side Effects:
: 344 0849 1
: 345 0850 1 --
: 346 0851 1
: 347 0852 1
: 348 0853 2 global routine anl$report_page: novalue = begin
: 349 0854 2
: 350 0855 2
: 351 0856 2 ! Since we are starting a new page, reset the line counter.
: 352 0857 2
: 353 0858 2 line_counter = lib$lp_lines() - 7;
: 354 0859 2
: 355 0860 2 ! Now we can eject and print the heading line. Don't do this if the
: 356 0861 2 ! current heading message is zero - page headers are not desired.
: 357 0862 2
: 358 0863 3 if .report_heading_msg nequ 0 then (
: 359 0864 3     anl$format_line(-1,0,anlrms$_anything,describe(%char(formfeed)));
: 360 0865 3
: 361 0866 3     increment (page_number);
: 362 0867 3     anl$format_line(-1,0,.report_heading_msg,0,.page_number);
: 363 0868 3     anl$format_line(-1,0,anlrms$_anything,input_file_spec);
: 364 0869 3     anl$format_skip(-1);
: 365 0870 3     anl$format_skip(-1);
: 366 0871 2 );
: 367 0872 2
: 368 0873 2 return;
: 369 0874 2
: 370 0875 1 end;

```

.PSECT \$PLITS,NOWRT,NOEXE,2

```

OC 00044 P.AAJ: .ASCII <12>
      00045      .BLKB 3
00000001 00048 P.AAI: .LONG 1
00000000* 0004C .ADDRESS P.AAJ

```

:
:
:

				.PSECT	\$CODE\$,NOWRT,2	
			000C 00000	.ENTRY	ANL\$REPORT_PAGE, Save R2,R3	: 0853
	53	0000V	CF 9E 00002	MOVAB	ANL\$FORMAT_LINE, R3	:
	52	00000000G	8F D0 00007	MOVL	#ANLRMS\$ ANYTHING, R2	:
00000000G	00		00 FB 0000E	CALLS	#0, LIB\$CP_LINES	: 0858
0000'	CF	F9	A0 9E 00015	MOVAB	-7(R0), LINE_COUNTER	:
		0000'	CF D5 0001B	TSTL	REPORT_HEADING_MSG	: 0863
			42 13 0001F	BEQL	1\$:
		0000'	CF 9F 00021	PUSHAB	P.AAI	: 0864
			52 DD 00025	PUSHL	R2	:
			7E D4 00027	CLRL	-(SP)	:
7E			01 CE 00029	MNEGL	#1, -(SP)	:
63			04 FB 0002C	CALLS	#4, ANL\$FORMAT_LINE	:
		0000'	CF D6 0002F	INCL	PAGE_NUMBER	: 0866
		0000'	CF DD 00033	PUSHL	PAGE_NUMBER	: 0867
			7E D4 00037	CLRL	-(SP)	:
		0000'	CF DD 00039	PUSHL	REPORT_HEADING_MSG	:
			7E D4 0003D	CLRL	-(SP)	:
7E			01 CE 0003F	MNEGL	#1, -(SP)	:
63			05 FB 00042	CALLS	#5, ANL\$FORMAT_LINE	:
		0000'	CF 9F 00045	PUSHAB	INPUT_FILE_SPEC	: 0868
			52 DD 00049	PUSHL	R2	:
			7E D4 0004B	CLRL	-(SP)	:
7E			01 CE 0004D	MNEGL	#1, -(SP)	:
63			04 FB 00050	CALLS	#4, ANL\$FORMAT_LINE	:
7E			01 CE 00053	MNEGL	#1, -(SP)	: 0869
0000V	CF		01 FB 00056	CALLS	#1, ANL\$FORMAT_SKIP	:
7E			01 CE 0005B	MNEGL	#1, -(SP)	: 0870
0000V	CF		01 FB 0005E	CALLS	#1, ANL\$FORMAT_SKIP	:
			04 00063 1\$:	RET		: 0875

: Routine Size: 100 bytes, Routine Base: \$CODE\$ + 016E

```

: 372 0876 1 %sbttl 'ANL$FORMAT_LINE - Format a Line of the Report'
: 373 0877 1 ++
: 374 0878 1 Functional Description:
: 375 0879 1 This routine is called to format a line and place it in the current
: 376 0880 1 report file. It also goes to the terminal if this is an interactive
: 377 0881 1 session.
: 378 0882 1
: 379 0883 1 Formal Parameters:
: 380 0884 1 widow_control Controls widowning as follows:
: 381 0885 1 positive specifies number of lines that
: 382 0886 1 must remain on the page.
: 383 0887 1 zero doesn't matter how many lines.
: 384 0888 1 negative Same as zero, but don't send
: 385 0889 1 the line to the screen.
: 386 0890 1 indent_level The number of tab stops to indent the line.
: 387 0891 1 template_msg The status code of the message defining the line
: 388 0892 1 template.
: 389 0893 1 fao1... $FAO arguments to fill into the message.
: 390 0894 1
: 391 0895 1 Implicit Inputs:
: 392 0896 1 global data
: 393 0897 1
: 394 0898 1 Implicit Outputs:
: 395 0899 1 global data
: 396 0900 1
: 397 0901 1 Returned Value:
: 398 0902 1 none
: 399 0903 1
: 400 0904 1 Side Effects:
: 401 0905 1
: 402 0906 1 --
: 403 0907 1
: 404 0908 1
: 405 0909 2 global routine anl$format_line(widow_control,indent_level,template_msg,fao1): novalue = begin
: 406 0910 2
: 407 0911 2 local
: 408 0912 2 status: long;
: 409 0913 2
: 410 0914 2
: 411 0915 2 ! If we aren't generating a report, then drop this line in the bit bucket.
: 412 0916 2
: 413 0917 2 if not .generating_report then
: 414 0918 2 return;
: 415 0919 2
: 416 0920 2 ! First we obtain the text of the template message.
: 417 0921 2
: 418 0922 3 begin
: 419 0923 3 local
: 420 0924 3 local_described_buffer(template_buf,nam$c_maxrss);
: 421 0925 3
: 422 P 0926 3 status = $getmsg(msgid=.template_msg,
: 423 PP 0927 3 msglen=template_buf,
: 424 P 0928 3 bufadr=template_buf,
: 425 0929 3 flags=%b'0001');
: 426 0930 3 check (.status,.status);
: 427 0931 3
: 428 0932 3 ! Now we can plug the $FAO arguments into the message template.

```

```

: 429      0933  3
: 430      0934  4 begin
: 431      0935  4 local
: 432      0936  4     local_described_buffer(result_buf,132);
: 433      0937  4
: 434      P 0938  4 status = $faol(ctrstr=template_buf,
: 435      P 0939  4     outlen=result_buf,
: 436      P 0940  4     outbuf=result_buf,
: 437      0941  4     prmlst=faol);
: 438      0942  4 check (.status,.status);
: 439      0943  4
: 440      0944  4 ! Prefix the resulting text with enough tabs to effect the indentation.
: 441      0945  4
: 442      0946  4 ch$move(.result_buf[ptr],.result_buf[ptr]+.indent_level);
: 443      0947  4 result_buf[ptr]=.result_buf[ptr]+.indent_level;
: 444      0948  4 ch$fil[($char(tab),.indent_level,.result_buf[ptr])];
: 445      0949  4
: 446      0950  4 ! There are two cases for widow control.  If zero, then only eject if we
: 447      0951  4 ! are out of lines.  If positive, then eject if there are not said number
: 448      0952  4 ! of lines left on the page.
: 449      0953  4
: 450      0954  4 if (.widow_control leq 0 and .line_counter leq 0) or
: 451      0955  4     (.widow_control geq 1 and .line_counter lss .widow_control) then
: 452      0956  4     anl$report_page();
: 453      0957  4
: 454      0958  4 ! If there is a current report file, put the line into it.  Also account
: 455      0959  4 ! for the line on the page.
: 456      0960  4
: 457      0961  5 if .report_rab[rab$w_isi] neq 0 then (
: 458      0962  5     report_rab[rab$w_rsz] = .result_buf[ptr];
: 459      0963  5     report_rab[rab$l_rbf] = .result_buf[ptr];
: 460      0964  5     status = $put(rab=report_rab);
: 461      0965  5     check (.status, anlrms$writeerr,1,report_file_spec,.status,.report_rab[rab$l_stv]);
: 462      0966  5     decrement (line_counter);
: 463      0967  4 );
: 464      0968  4
: 465      0969  4 ! If we are doing an interactive session, also put the line onto the screen.
: 466      0970  4 ! However, lines with widow control of -1 are not displayed.
: 467      0971  4
: 468      0972  5 if .anl$gb_mode eq 1 and .widow_control geq 0 then (
: 469      0973  5     status = lib$put_output(result_buf);
: 470      0974  5     check (.status,.status);
: 471      0975  4 );
: 472      0976  4
: 473      0977  3 end;
: 474      0978  2 end;
: 475      0979  2
: 476      0980  2 return;
: 477      0981  2
: 478      0982  1 end;

```

.EXTRN SYS\$GETMSG, SYS\$FAOL
.EXTRN SYS\$PUT

01FC 0000

.ENTRY ANL\$FORMAT_LINE, Save R2,R3,R4,R5,R6,R7,R8 ; 0909

		58	00000000G	00	9E	00002	MOVAB	LIB\$SIGNAL, R8	
		57	0000'	CF	9E	00009	MOVAB	LINE_COUNTER, R7	
		5E	FE6C	CE	9E	0000E	MOVAB	-404(TSP), SP	
		01	FE6C	C7	E8	00013	BLBS	GENERATING_REPORT, 1\$	0917
					04	00018	RET		
	008C	CE	FF	8F	9A	00019	1\$: MOVZBL	#255, TEMPLATE_BUF	0924
	0090	CE	0094	CE	9E	0001F	MOVAB	TEMPLATE_BUF+8, TEMPLATE_BUF+4	
		7E		01	7D	00026	MOVQ	#1, -(SP)	0929
			0094	CE	9F	00029	PUSHAB	TEMPLATE_BUF	
			0098	CE	9F	0002D	PUSHAB	TEMPLATE_BUF	
			0C	AC	DD	00031	PUSHL	TEMPLATE_MSG	
	00000000G	00		05	FB	00034	CALLS	#5, SYSSGETMSG	
		56		50	D0	0003B	MOVL	R0, STATUS	
		05		56	E8	0003E	BLBS	STATUS, 2\$	0930
				56	DD	00041	PUSHL	STATUS	
		68		01	FB	00043	CALLS	#1, LIB\$SIGNAL	
	04	AE	84	8F	9A	00046	2\$: MOVZBL	#132, RESULT_BUF	0936
			08	AE	9E	0004A	MOVAB	RESULT_BUF+8, RESULT_BUF+4	
			10	AC	9F	0004F	PUSHAB	FA01	0941
			04	AE	9F	00052	PUSHAB	RESULT_BUF	
			08	AE	9F	00055	PUSHAB	RESULT_BUF	
			0098	CE	9F	00058	PUSHAB	TEMPLATE_BUF	
	00000000G	00		04	FB	0005C	CALLS	#4, SYSSFAOL	
		56		50	D0	00063	MOVL	R0, STATUS	
		05		56	E8	00066	BLBS	STATUS, 3\$	0942
				56	DD	00069	PUSHL	STATUS	
		68		01	FB	0006B	CALLS	#1, LIB\$SIGNAL	
	50	04	AE	08	AC	C1	3\$: ADDL3	INDENT_LEVEL, RESULT_BUF+4, R0	0946
	60	04	BE		6E	28	MOVCS	RESULT_BUF, @RESULT_BUF+4, (R0)	
			6E	08	AC	A0	ADDW2	INDENT_LEVEL, RESULT_BUF	0947
08	AC	09	6E		00	2C	MOVCS	#0, (SP), #9, INDENT_LEVEL, @RESULT_BUF+4	0948
					04	BE			
		52	04	AC	D0	00085	MOVL	WIDOW_CONTROL, R2	0954
				04	14	00089	BGTR	4\$	
				67	D5	0008B	TSTL	LINE_COUNTER	
				09	15	0008D	BLEQ	5\$	
				52	D5	0008F	4\$: TSTL	R2	0955
				0A	15	00091	BLEQ	6\$	
		52		67	D1	00093	CMPL	LINE_COUNTER, R2	
				05	18	00096	BGEQ	6\$	
	FEFF	CF		00	FB	00098	5\$: CALLS	#0, ANLSREPORT_PAGE	0956
			FEAA	C7	B5	0009D	6\$: TSTW	REPORT_RAB+2	0961
				33	13	000A1	BEQL	8\$	
	FECA	C7		6E	B0	000A3	MOVW	RESULT_BUF, REPORT_RAB+34	0962
	FEDO	C7	04	AE	D0	000A8	MOVL	RESULT_BUF+4, REPORT_RAB+40	0963
			FEA8	C7	9F	000AE	PUSHAB	REPORT_RAB	0964
	00000000G	00		01	FB	000B2	CALLS	#1, SYSSPUT	
		56		50	D0	000B9	MOVL	R0, STATUS	
		15		56	E8	000BC	BLBS	STATUS, 7\$	0965
			FE84	C7	DD	000BF	PUSH	REPORT_RAB+12	
				56	DD	000C3	PUSHL	STATUS	
			FD50	C7	9F	000C5	PUSHAB	REPORT_FILE_SPEC	
				01	DD	000C9	PUSHL	#1	
		68	00B110D4	8F	DD	000CB	PUSHL	#11604180	
				05	FB	000D1	CALLS	#5, LIB\$SIGNAL	
				67	D7	000D4	7\$: DECL	LINE_COUNTER	0966
		03	0000G	CF	91	000D6	8\$: CMPB	ANLSGB_MODE, #3	0972

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS_FILE 16-Sep-1984 00:10:49
ANLS\$FORMAT_LINE - Format a Line of the Report 14-Sep-1984 11:53:01

E 3

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		18	12	000DB	BNEQ	9\$	
		52	D5	000DD	TSTL	R2	
		14	19	000DF	BLSS	9\$	
		5E	DD	000E1	PUSHL	SP	
00000000G	00	01	FB	000E3	CALLS	#1, LIB\$PUT_OUTPUT	
	56	50	D0	000EA	MOVL	R0, STATUS	
	05	56	E8	000ED	BLBS	STATUS, 9\$	
		56	DD	000F0	PUSHL	STATUS	
	68	01	FB	000F2	CALLS	#1, LIB\$SIGNAL	
			04	000F5	9\$:	RET	

;
;
;
0973
;
;
0974
;
;
;
0982

; Routine Size: 246 bytes, Routine Base: \$CODE\$ + 01D2


```

: 480 0983 1 %sbttl 'ANL$FORMAT_SKIP - Skip a Line in Report'
: 481 0984 1 :++
: 482 0985 1 : Functional Description:
: 483 0986 1 :   This routine can be called to skip a line in the current report.
: 484 0987 1 :
: 485 0988 1 : Formal Parameters:
: 486 0989 1 :   widow_control   See ANL$FORMAT_LINE
: 487 0990 1 :
: 488 0991 1 : Implicit Inputs:
: 489 0992 1 :   global data
: 490 0993 1 :
: 491 0994 1 : Implicit Outputs:
: 492 0995 1 :   global data
: 493 0996 1 :
: 494 0997 1 : Returned Value:
: 495 0998 1 :   none
: 496 0999 1 :
: 497 1000 1 : Side Effects:
: 498 1001 1 :
: 499 1002 1 : --
: 500 1003 1 :
: 501 1004 1 :
: 502 1005 2 global routine anl$format_skip(widow_control): novalue = begin
: 503 1006 2
: 504 1007 2
: 505 1008 2 ! Just call FORMAT_LINE with a blank line.
: 506 1009 2
: 507 1010 2 anl$format_line(.widow_control,0,anlrms$_anything,describe(''));
: 508 1011 2
: 509 1012 2 return;
: 510 1013 2
: 511 1014 1 end;

```

```

                                .PSECT $SPLITS$,NOWRT,NOEXE,2
                                00000000 00050 P.AAL: .BLKB 0
                                00000000 00050 P.AAK: .LONG 0
                                00000000 00054 .ADDRESS P.AAL
                                :
                                :
                                .PSECT $CODES$,NOWRT,2
                                0000 0000 .ENTRY ANL$FORMAT_SKIP, Save nothing
                                0000' CF 9F 00002 PUSHAB P.AAK
                                00000000G 8F DD 00006 PUSHL #ANLRMSS$_ANYTHING
                                7E D4 0000C CLRL -(SP)
                                04 AC DD 0000E PUSHL WIDOW CONTROL
                                FEF4 CF 04 FB 00011 CALLS #4, ANL$FORMAT_LINE
                                04 00016 RET
                                :
                                : 1005
                                : 1010
                                :
                                :
                                : 1014

```

: Routine Size: 23 bytes, Routine Base: \$CODES + 02C8

```

: 513 1015 1 %sbttl 'ANL$FORMAT_ERROR - Put Error Message in Report'
: 514 1016 1 ++
: 515 1017 1 Functional Description:
: 516 1018 1 This routine is called to format an error message into the report
: 517 1019 1 file.
: 518 1020 1
: 519 1021 1 Formal Parameters:
: 520 1022 1 error_msg Status code for the error message.
: 521 1023 1 fao1... $FAO substitution parameters for the message.
: 522 1024 1
: 523 1025 1 Implicit Inputs:
: 524 1026 1 global data
: 525 1027 1
: 526 1028 1 Implicit Outputs:
: 527 1029 1 global data
: 528 1030 1
: 529 1031 1 Returned Value:
: 530 1032 1 none
: 531 1033 1
: 532 1034 1 Side Effects:
: 533 1035 1 anl$worst_error may be set to a new condition value.
: 534 1036 1 error_count is incremented.
: 535 1037 1
: 536 1038 1 --
: 537 1039 1
: 538 1040 1
: 539 1041 2 global routine anl$format_error(error_msg,fao1,fao2,fao3,fao4): novalue = begin
: 540 1042 2
: 541 1043 2 external
: 542 1044 2 anl$worst_error;
: 543 1045 2
: 544 1046 2 bind
: 545 1047 2 flag_string = describe('*** ');
: 546 1048 2
: 547 1049 2 builtin
: 548 1050 2 actualcount;
: 549 1051 2
: 550 1052 2 ! We case on the number of $FAO parameters and call ANL$FORMAT_LINE to
: 551 1053 2 ! do the work. In all cases, however, we add our own first parameter,
: 552 1054 2 ! which is the error message flag string.
: 553 1055 2
: 554 1056 2 case actualcount() from 1 to 5 of set
: 555 1057 2 [1]: anl$format_line(0,0,.error_msg,flag_string);
: 556 1058 2 [2]: anl$format_line(0,0,.error_msg,flag_string,.fao1);
: 557 1059 2 [3]: anl$format_line(0,0,.error_msg,flag_string,.fao1,.fao2);
: 558 1060 2 [4]: anl$format_line(0,0,.error_msg,flag_string,.fao1,.fao2,.fao3);
: 559 1061 2 [5]: anl$format_line(0,0,.error_msg,flag_string,.fao1,.fao2,.fao3,.fao4);
: 560 1062 2 tes;
: 561 1063 2
: 562 1064 2 ! Keep track of the number of errors reported. Also keep track of
: 563 1065 2 ! most severe error which has occurred.
: 564 1066 2
: 565 1067 2 increment (error_count);
: 566 1068 2 if severity_level (.error_msg) gtr
: 567 1069 3 severity_level (.anl$worst_error) ! If higher than watermark
: 568 1070 2 then anl$worst_error = .error_msg; ! -then set new worst error
: 569 1071 2

```

: 570
: 571
: 572
1072 2 return;
1073 2
1074 1 end;

```

                .PSECT $SPLITS$,NOWRT,NOEXE,2
20 20 2A 2A 2A 00058 P.AAN: .ASCII \*** \
                0005D .BLKB 3
                0000005 00060 P.AAM: .LONG 5
                00000000' 00064 .ADDRESS P.AAN
                FLAG_STRING= P.AAM
                .EXTRN ANLS$WORST_ERROR
                .PSECT $CODES$,NOWRT,2
002C          04          001F          0013
55 0000' 003C 00000 .ENTRY ANLS$FORMAT_ERROR, Save R2,R3,R4,R5 : 1041
54 FEF8 CF 9E 00002 MOVAB FLAG_STRING, R5
52 04 CF 9E 00007 MOVAB ANLS$FORMAT_LINE, R4
01 04 AC D0 0000C MOVL ERROR_MSG, R2
000A 6C 8F 00010 CASEB (AP), #1, #4 : 1057
003C 00014 1$: .WORD 2$-1$,- : 1056
                3$-1$,-
                4$-1$,-
                5$-1$,-
                6$-1$
                24 BB 0001E 2$: PUSHR #^M<R2,R5> : 1057
                7E 7C 00020 CLRQ -(SP)
64 04 FB 00022 CALLS #4, ANLS$FORMAT_LINE
                38 11 00025 BRB 7$
                08 AC DD 00027 3$: PUSHL FA01 : 1058
                24 BB 0002A PUSHR #^M<R2,R5>
                7E 7C 0002C CLRQ -(SP)
64 05 FB 0002E CALLS #5, ANLS$FORMAT_LINE
                2C 11 00031 BRB 7$
7E 08 AC 7D 00033 4$: MOVQ FA01, -(SP) : 1059
                24 BB 00037 PUSHR #^M<R2,R5>
                7E 7C 00039 CLRQ -(SP)
64 06 FB 0003B CALLS #6, ANLS$FORMAT_LINE
                1F 11 0003E BRB 7$
7E 0C AC 7D 00040 5$: MOVQ FA02, -(SP) : 1060
                08 AC DD 00044 PUSHL FA01
                24 BB 00047 PUSHR #^M<R2,R5>
                7E 7C 00049 CLRQ -(SP)
64 07 FB 0004B CALLS #7, ANLS$FORMAT_LINE
                0F 11 0004E BRB 7$
7E 10 AC 7D 00050 6$: MOVQ FA03, -(SP) : 1061
7E 08 AC 7D 00054 MOVQ FA01, -(SP)
                24 BB 00058 PUSHR #^M<R2,R5>
                7E 7C 0005A CLRQ -(SP)
64 08 FB 0005C CALLS #8, ANLS$FORMAT_LINE
0000' 0000' CF D6 0005F 7$: INCL ERROR_COUNT : 1067
50 52 D0 00063 MOVL R2, TMP_CODE : 1068
51 00 EF 00066 EXTZV #0, #3, TMP_CODE, R1
50 01 00 EF 0006B EXTZV #0, #1, TMP_CODE, R0

```

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS_FILE 16-Sep-1984 00:10:49
ANL\$FORMAT_ERROR - Put Error Message in Report 14-Sep-1984 11:53:01

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		50		04	C4	00070	MULL2	#4, R0	:
		51		50	C2	00073	SUBL2	R0, R1	:
		51		03	C0	00076	ADDL2	#3, R1	:
		50	0000G	CF	D0	00079	MOVL	ANL\$WORST_ERROR, TMP_CODE	1069
53		03		00	EF	0007E	EXTZV	#0, #3, TMP_CODE, R3	:
50	50	01		00	EF	00083	EXTZV	#0, #1, TMP_CODE, R0	:
		50		04	C4	00088	MULL2	#4, R0	:
		53		50	C2	0008B	SUBL2	R0, R3	:
		50	03	A3	9E	0008E	MOVAB	3(R3), R0	:
		50		51	D1	00092	CMPL	R1, R0	:
				05	15	00095	BLEQ	8\$:
			0000G	CF	52	D0	MOVL	R2, ANL\$WORST_ERROR	1070
					04	0009C	RET		1074

; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 02DF

```

: 574 1075 1 %sbttl 'ANL$ERROR_COUNT - Report Count of Errors'
: 575 1076 1 ++
: 576 1077 1 Functional Description:
: 577 1078 1 This routine is called to print a line telling how many errors
: 578 1079 1 were discovered during the analysis.
: 579 1080 1
: 580 1081 1 Formal Parameters:
: 581 1082 1 none
: 582 1083 1
: 583 1084 1 Implicit Inputs:
: 584 1085 1 global data
: 585 1086 1
: 586 1087 1 Implicit Outputs:
: 587 1088 1 global data
: 588 1089 1
: 589 1090 1 Returned Value:
: 590 1091 1 none
: 591 1092 1
: 592 1093 1 Side Effects:
: 593 1094 1
: 594 1095 1 --
: 595 1096 1
: 596 1097 1
: 597 1098 2 global routine anl$error_count: novalue = begin
: 598 1099 2
: 599 1100 2
: 600 1101 2 ! First we print the error count in the report.
: 601 1102 2
: 602 1103 2 if .error_count eql 0 then
: 603 1104 2     anl$format_line(0,0,anlrms$errornone)
: 604 1105 2 else
: 605 1106 2     anl$format_line(0,0,anlrms$errorcount,.error_count);
: 606 1107 2
: 607 1108 2 ! If this is a /CHECK or /STATISTICS report, we want the user to know
: 608 1109 2 ! what happened. If the report is going to a file, then we better display
: 609 1110 2 ! a summary line.
: 610 1111 2
: 611 1112 2 if (.anl$gb_mode eql anl$k_check or .anl$gb_mode eql anl$k_statistics) and
: 612 1113 2 (not .generating_report or .report_to_file) then
: 613 1114 2     signal (anlrms$errors,2,input_file_spec,.error_count);
: 614 1115 2
: 615 1116 2 ! Now we can reset the error counter for the next file.
: 616 1117 2
: 617 1118 2 error_count = 0;
: 618 1119 2
: 619 1120 2 return;
: 620 1121 2
: 621 1122 1 end;

```

```

52      0000' 0004 0000      .ENTRY ANL$ERROR_COUNT, Save R2
50      0000' 62 00 00002    MOVAB  ERROR_COUNT, R2
                    62 00 00007    MOVL  ERROR_COUNT, R0
                    0F 12 0000A    BNEQ  1$

```

```

: 1098
:
: 1103
:

```

		00000000G	8F DD 0000C	PUSHL #ANLRMSS_ERRORNONE	: 1104
			7E 7C 00012	CLRQ -(SP)	:
FE3D	CF		03 FB 00014	CALLS #3, ANL\$FORMAT_LINE	:
			0F 11 00019	BRB 2\$:
		00000000G	50 DD 0001B 1\$:	PUSHL R0	: 1106
			8F DD 0001D	PUSHL #ANLRMSS_ERRORCOUNT	:
			7E 7C 00023	CLRQ -(SP)	:
FE2C	CF		04 FB 00025	CALLS #4, ANL\$FORMAT_LINE	:
	01	0000G	CF 91 0002A 2\$:	CMPB ANL\$GB_MODE, #T	: 1112
			07 13 0002F	BEQL 3\$:
	04	0000G	CF 91 00031	CMPB ANL\$GB_MODE, #4	:
			1E 12 00036	BNEQ 5\$:
	04	FEE4	C2 E9 00038 3\$:	BLBC GENERATING REPORT, 4\$: 1113
	15	FC	A2 E9 0003D	BLBC REPORT TO FILE, 5\$:
			62 DD 00041 4\$:	PUSHL ERROR_COUNT	: 1114
		FEEC	C2 9F 00043	PUSHAB INPUT_FILE_SPEC	:
			02 DD 00047	PUSHL #2	:
		00000000G	8F DD 00049	PUSHL #ANLRMSS_ERRORS	:
00000000G	00		04 FB 0004F	CALLS #4, LIB\$SIGNAL	:
			62 D4 00056 5\$:	CLRL ERROR_COUNT	: 1118
			04 00058	RET	: 1122

; Routine Size: 89 bytes, Routine Base: \$CODE\$ + 037C

```

: 623      1123 1 %sbttl 'ANL$FORMAT_FLAGS - Format Flag Bits'
: 624      1124 1 |++
: 625      1125 1 | Functional Description:
: 626      1126 1 |   This routine is called to format the flags in a byte/word/longword
: 627      1127 1 |   of flags.
: 628      1128 1 |
: 629      1129 1 | Formal Parameters:
: 630      1130 1 |   indent_level   The level at which the introductory message is to
: 631      1131 1 |                   be indented. The flags are indented one more level.
: 632      1132 1 |   intro_msg      The introductory message.
: 633      1133 1 |   flags          The flag bits.
: 634      1134 1 |   flag_def       A longword vector defining the flags. The zeroth
: 635      1135 1 |                   entry specifies the highest-numbered flag. The
: 636      1136 1 |                   remaining longwords contain the address of a counted
: 637      1137 1 |                   string giving the name of the flag. If the flag is
: 638      1138 1 |                   undefined, the longword contains zero.
: 639      1139 1 |
: 640      1140 1 | Implicit Inputs:
: 641      1141 1 |   global data
: 642      1142 1 |
: 643      1143 1 | Implicit Outputs:
: 644      1144 1 |   global data
: 645      1145 1 |
: 646      1146 1 | Returned Value:
: 647      1147 1 |   none
: 648      1148 1 |
: 649      1149 1 | Side Effects:
: 650      1150 1 |
: 651      1151 1 | --
: 652      1152 1 |
: 653      1153 1 |
: 654      1154 2 global routine anl$format_flags(indent_level,intro_msg,flags,flag_def): novalue = begin
: 655      1155 2
: 656      1156 2 bind
: 657      1157 2     flags_vector = flags: bitvector[],
: 658      1158 2     flag_def_vector = .flag_def: vector[,long];
: 659      1159 2
: 660      1160 2 local
: 661      1161 2     i: long;
: 662      1162 2
: 663      1163 2
: 664      1164 2 ! Begin by printing the introductory message.
: 665      1165 2
: 666      1166 2 anl$format_line(2,.indent_level,.intro_msg);
: 667      1167 2
: 668      1168 2 ! Now we loop through the flags and process each one that is defined.
: 669      1169 2 ! We print the flag name, bit number, and current setting.
: 670      1170 2
: 671      1171 3 incru i from 0 to .flag_def_vector[0] do (
: 672      1172 3     if .flag_def_vector[.i+1] nequ 0 then
: 673      1173 3         anl$format_line(0,.indent_level+1,anlrms$flag,
: 674      1174 3             .i,.flag_def_vector[.i+1],.flags_vector[.i]);
: 675      1175 3 );
: 676      1176 2
: 677      1177 2 return;
: 678      1178 2
: 679      1179 1 end;

```

				0004	00000	.ENTRY	ANLS\$FORMAT_FLAGS, Save R2	:	1154			
	7E		04	AC	7D	00002	MOVQ	INDENT_LEVEL, -(SP)	:	1166		
				02	DD	00006	PUSHL	#2	:			
	FDF0	CF		03	FB	00008	CALLS	#3, ANLS\$FORMAT_LINE	:			
				52	D4	0000D	CLRL	I	:	1171		
				29	11	0000F	BRB	3\$:			
	50		10	BC	42	DE	00011	1\$:	MOVAL	@FLAG_DEF[I], R0	:	1172
				04	A0	D5	00016		TSTL	4(R0)	:	
				1D	13	00019	BEQL	2\$:			
7E	OC	AC		01	52	EF	0001B		EXTZV	I, #1, FLAGS_VECTOR, -(SP)	:	1174
					04	A0	DD	00021	PUSHL	4(R0)	:	
					52	DD	00024		PUSHL	I	:	
					00000000G	8F	DD	00026	PUSHL	#ANLRMSS\$ FLAG	:	1173
	7E	04	AC		01	C1	0002C		ADDL3	#1, INDENT_LEVEL, -(SP)	:	
					7E	D4	00031		CLRL	-(SP)	:	
	FDC5	CF			06	FB	00033		CALLS	#6, ANLS\$FORMAT_LINE	:	
					52	D6	00038	2\$:	INCL	I	:	1171
	10	BC			52	D1	0003A	3\$:	CMPL	I, @FLAG_DEF	:	
					D1	1B	0003E		BLEQU	1\$:	
					04	00040	RET				:	1179

; Routine Size: 65 bytes, Routine Base: \$CODE\$ + 03D5


```

681 1180 1 %sbttl 'ANL$FORMAT_HEX - Format Hex Dump of Data'
682 1181 1 ++
683 1182 1 Functional Description:
684 1183 1 This routine is called to format a hex dump of some bytes.
685 1184 1 It includes the character representation of the bytes also.
686 1185 1
687 1186 1 Formal Parameters:
688 1187 1 indent_level The indentation level at which to place the dump.
689 1188 1 data Address of descriptor of data to be dumped
690 1189 1
691 1190 1 Implicit Inputs:
692 1191 1 global data
693 1192 1
694 1193 1 Implicit Outputs:
695 1194 1 global data
696 1195 1
697 1196 1 Returned Value:
698 1197 1 none
699 1198 1
700 1199 1 Side Effects:
701 1200 1
702 1201 1 --
703 1202 1
704 1203 1
705 1204 2 global routine anl$format_hex(indent_level,data): novalue = begin
706 1205 2
707 1206 2 bind
708 1207 2 data_dsc = .data: descriptor,
709 1208 2 data_vector = .data_dsc[ptr]: vector[,byte];
710 1209 2
711 1210 2 local
712 1211 2 i: long,
713 1212 2 arg_list: vector[20,long],
714 1213 2 count: long;
715 1214 2
716 1215 2 builtin
717 1216 2 callg;
718 1217 2
719 1218 2
720 1219 2 ! If the data is null, just quit.
721 1220 2
722 1221 2 if .data_dsc[len] eql 0 then
723 1222 2 return;
724 1223 2
725 1224 2 ! We begin by printing two heading lines. The first shows the offsets
726 1225 2 ! of the bytes and the second is a line of dashes.
727 1226 2
728 1227 2 anl$format_line(3,.indent_level,anlrms$_hexheading1);
729 1228 2 anl$format_line(0,.indent_level,anlrms$_hexheading2);
730 1229 2
731 1230 2 . We will be building argument lists to ANL$FORMAT LINE. It will always
732 1231 2 ! include widow control, indentation level, and the message code.
733 1232 2
734 1233 2 arg_list[1] = 0;
735 1234 2 arg_list[2] = .indent_level;
736 1235 2 arg_list[3] = anlrms$_hexdata;
737 1236 2

```


			64	B5	0000F	TSTW	(R4)	:	1221		
			33	13	00011	BEQL	2\$:			
		00000000G	8F	DD	00013	PUSHL	#ANLRM\$\$_HEXHEADING1	:	1227		
		04	AC	DD	00019	PUSHL	INDENT_LEVEL	:			
			03	DD	0001C	PLSHL	#3	:			
		65	03	FB	0001E	CALLS	#3, ANL\$FORMAT_LINE	:			
		00000000G	8F	DD	00021	PUSHL	#ANLRM\$\$_HEXHEADING2	:	1228		
		04	AC	DD	00027	PUSHL	INDENT_LEVEL	:			
			7E	D4	0002A	CLRL	-(SP)	:			
		65	03	FB	0002C	CALLS	#3, ANL\$FORMAT_LINE	:			
		04	AE	D4	0002F	CLRL	ARG_LIST+4	:	1233		
08	AE	04	AC	D0	00032	MOVL	INDENT_LEVEL, ARG_LIST+8	:	1234		
0C	AE	00000000G	8F	D0	00037	MOVL	#ANLRM\$\$_HEXDATA, ARG_LIST+12	:	1235		
			53	D4	0003F	CLRL	I	:	1239		
53		64	10	00	ED	00041	1\$: CMPZV	:	1240		
				4F	1B	00046	2\$: BLEQU	:			
			50	64	3C	00048	MOVZWL	:	1244		
			50	53	C2	0004B	SUBL2	:			
			08	50	D1	0004E	CMP	:			
				03	1B	00051	BLEQU	:			
			50	08	D0	00053	MOVL	:			
			52	50	D0	00056	3\$: MOVL	:			
			50	F8	A2	9E	00059	MOVAB	:	1249	
			50	03	C4	0005D	MULL2	:			
			10	AE	50	CE	00060	MNEGL	:		
			14	AE	52	D0	00064	MOVL	:	1253	
			50	52	D0	00068	MOVL	:	1258		
				09	11	0006B	BRB	:			
		18	AE40	04	B443	9A	0006D	4\$: MOVZBL	:	1259	
				53	D6	00074	INCL	:	1260		
			F4	50	F4	00076	5\$: SOBGEQ	:	1258		
			53	52	C3	00079	SUBL3	:	1265		
			18	AE42	50	D0	0007D	MOVL	:		
			1C	AE42	52	D0	00082	MOVL	:	1270	
			20	AE42	04	B440	9E	00087	MOVAB	:	1271
				08	A2	9E	0008E	MOVAB	:	1275	
				6E	FA	00092	CALLG	:	1279		
			65	AA	11	00095	BRB	:	1240		
				04	00097	6\$: RET		:	1284		

: Routine Size: 152 bytes, Routine Base: \$CODE\$ + 0416

```

: 787      1285 1 %sbttl 'ANL$FORMAT_PROTECTION_MASK - Format Protection Mask'
: 788      1286 1
: 789      1287 1  +-
: 790      1288 1  Functional Description:
: 791      1289 1  This routine is called to format the standard 16-bit system
: 792      1290 1  protection mask.
: 793      1291 1  Formal Parameters:
: 794      1292 1  indent_level  Indentation level in the report.
: 795      1293 1  message       Status code for message to use.
: 796      1294 1  protection    Protection mask.
: 797      1295 1
: 798      1296 1  Implicit Inputs:
: 799      1297 1  global data
: 800      1298 1
: 801      1299 1  Implicit Outputs:
: 802      1300 1  global data
: 803      1301 1
: 804      1302 1  Returned Value:
: 805      1303 1  none
: 806      1304 1
: 807      1305 1  Side Effects:
: 808      1306 1
: 809      1307 1  --
: 810      1308 1
: 811      1309 1
: 812      1310 2 global routine anl$format_protection_mask(indent_level,message,protection): novalue = begin
: 813      1311 2
: 814      1312 2 own
: 815      1313 2     protection_table: vector[16,long] initial(
: 816      1314 2         uplit byte (%ascic 'RWED'),
: 817      1315 2         uplit byte (%ascic 'WED'),
: 818      1316 2         uplit byte (%ascic 'RED'),
: 819      1317 2         uplit byte (%ascic 'ED'),
: 820      1318 2         uplit byte (%ascic 'RWD'),
: 821      1319 2         uplit byte (%ascic 'WD'),
: 822      1320 2         uplit byte (%ascic 'RD'),
: 823      1321 2         uplit byte (%ascic 'D'),
: 824      1322 2         uplit byte (%ascic 'RWE'),
: 825      1323 2         uplit byte (%ascic 'WE'),
: 826      1324 2         uplit byte (%ascic 'RE'),
: 827      1325 2         uplit byte (%ascic 'E'),
: 828      1326 2         uplit byte (%ascic 'RW'),
: 829      1327 2         uplit byte (%ascic 'W'),
: 830      1328 2         uplit byte (%ascic 'R'),
: 831      1329 2         uplit byte (%ascic ''));
: 832      1330 2
: 833      1331 2
: 834      1332 2 ! Simply format the message using the above protection code table.
: 835      1333 2
: 836      1334 2 anl$format_line(0,..indent_level,..message,..protection_table[.protection<0,4,0>],
: 837      1335 2         .protection_table[.protection<4,4,0>],
: 838      1336 2         .protection_table[.protection<8,4,0>],
: 839      1337 2         .protection_table[.protection<12,4,0>]);
: 840      1338 2
: 841      1339 2 return;
: 842      1340 2
: 843      1341 1 end;

```

```

.PSECT $PLITS$,NOWRT,NOEXE,2
44 45 57 52 04 00068 P.AAO: .ASCII <4>\RWED\
44 45 57 03 0006D P.AAP: .ASCII <3>\WED\
44 45 52 03 00071 P.AAQ: .ASCII <3>\RED\
44 44 45 02 00075 P.AAR: .ASCII <2>\ED\
44 57 52 03 00078 P.AAS: .ASCII <3>\RWD\
44 44 57 02 0007C P.AAT: .ASCII <2>\WD\
44 44 52 02 0007F P.AAU: .ASCII <2>\RD\
44 44 01 00082 P.AAV: .ASCII <1>\D\
45 57 52 03 00084 P.AAW: .ASCII <3>\RWE\
45 45 57 02 00088 P.AAX: .ASCII <2>\WE\
45 45 52 02 0008B P.AAY: .ASCII <2>\RE\
45 45 01 0008E P.AAZ: .ASCII <1>\E\
57 57 52 02 00090 P.ABA: .ASCII <2>\RW\
57 57 01 00093 P.ABB: .ASCII <1>\W\
52 52 01 00095 P.ABC: .ASCII <1>\R\
00097 P.ABD: .ASCII <0>

```

```

00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00685
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00688
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 006A0
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 006B8

```

```

.PSECT $OWNS$,NOEXE,2
.BLK 3
PROTECTION TABLE:
.ADDRESS P.AAO, P.AAP, P.AAQ, P.AAR, P.AAS, -
P.AAT, P.AAU, P.AAV, P.AAW, P.AAX, P.AAY, -
P.AAZ, P.ABA, P.ABB, P.ABC, P.ABD

```

```

50 0D AC 52 0000' CF 9E 00002
04 04 EF 00007
6240 DD 0000D
50 0D AC 04 00 EF 00010
6240 DD 00016
50 0C AC 04 04 EF 00019
6240 DD 0001F
50 0C AC 04 00 EF 00022
6240 DD 00028
7E 04 AC 7D 0002B
FCEE CF 7E D4 0002F
07 FB 00031
04 00036

```

```

.PSECT $CODE$,NOWRT,2
.ENTRY ANLS$FORMAT_PROTECTION_MASK, Save R2 : 1310
MOVAB PROTECTION_TABLE, R2 :
EXTZV #4, #4, PROTECTION+1, R0 : 1337
PUSHL PROTECTION_TABLE[R0] :
EXTZV #0, #4, PROTECTION+1, R0 : 1336
PUSHL PROTECTION_TABLE[R0] :
EXTZV #4, #4, PROTECTION, R0 : 1335
PUSHL PROTECTION_TABLE[R0] :
EXTZV #0, #4, PROTECTION, R0 : 1334
PUSHL PROTECTION_TABLE[R0] :
MOVQ INDENT_LEVEL, -(SP) :
CLRL -(SP) :
CALLS #7, ANLS$FORMAT_LINE :
RET : 1341

```

; Routine Size: 55 bytes, Routine Base: \$CODE\$ + 04AE

```
845 1342 1 %sbttl 'ANL$FORMAT_FILE_ATTRIBUTES - Format File Attribute Area'
846 1343 1
847 1344 1 *+
848 1345 1 Functional Description:
849 1346 1 This routine is called to format the user file attribute area, which
850 1347 1 is assumed to contain RMS file attributes. We don't check the
851 1348 1 attributes.
852 1349 1 Formal Parameters:
853 1350 1 none
854 1351 1
855 1352 1 Implicit Inputs:
856 1353 1 global data
857 1354 1
858 1355 1 Implicit Outputs:
859 1356 1 global data
860 1357 1
861 1358 1 Returned Value:
862 1359 1 none
863 1360 1
864 1361 1 Side Effects:
865 1362 1
866 1363 1 --
867 1364 1
868 1365 1
869 1366 2 global routine anl$format_file_attributes: novalue = begin
870 1367 2
871 1368 2
872 1369 2 ! We start with a nice little header.
873 1370 2
874 1371 2 anl$format_line(3,0,anlrms$_fileattr);
875 1372 2 anl$format_skip(0);
876 1373 2
877 1374 2 ! The first data printed is the file organization.
878 1375 2
879 1376 3 anl$format_line(0,1,anlrms$_fileorg,(selectoneu .anl$gl_fat[fat$v_fileorg] of set
880 1377 3 [fat$c_sequential]: uplit byte (%ascic 'sequential');
881 1378 3 [fat$c_relative]: uplit byte (%ascic 'relative');
882 1379 3 [fat$c_indexed]: uplit byte (%ascic 'indexed');
883 1380 2 tes));
884 1381 2
885 1382 2 ! Now we include the record format and attributes.
886 1383 2
887 1384 2 anl$format_line(0,1,anlrms$_recfmt,
888 1385 3 (selectoneu .anl$gl_fat[fat$v_rtype] of set
889 1386 3 [fat$c_undefined]: uplit byte (%ascic 'undefined');
890 1387 3 [fat$c_fixed]: uplit byte (%ascic 'fixed');
891 1388 3 [fat$c_variable]: uplit byte (%ascic 'variable');
892 1389 3 [fat$c_vfc]: uplit byte (%ascic 'variable-with-fixed-control');
893 1390 3 [fat$c_stream]: uplit byte (%ascic 'stream');
894 1391 3 [fat$c_streamlf]: uplit byte (%ascic 'stream-LF');
895 1392 3 [fat$c_streamcr]: uplit byte (%ascic 'stream-(R)');
896 1393 2 tes));
897 1394 2
898 1395 3 anl$format_line(0,1,anlrms$_recattr,(if .anl$gl_fat[fat$v_nospan] then uplit byte (%ascic 'no-span')
899 1396 3 else uplit byte (%ascic '')),
900 1397 3 (if .anl$gl_fat[fat$v IMPLIEDCC] then uplit byte (%ascic 'carriage-return')
901 1398 3 else if .anl$gl_fat[fat$v_fortrancc] then uplit byte (%ascic 'fortran'))
```

```

: 902 1399 3           else if .anl$gl_fat[fat$w_printcc] then uplit byte (%ascic 'print')
: 903 1400 2           else uplit byte (%ascic ' '));
: 904 1401 2
: 905 1402 2 ! Now the maximum record size and the longest record size.
: 906 1403 2
: 907 1404 2 anl$format_line(0,1,anlrms$maxrecsize,.anl$gl_fat[fat$w_maxrec]);
: 908 1405 2 if .anl$gl_fat[fat$w_fileorg] eqlu fat$c_sequential or .anl$gl_fat[fat$w_rtype] eqlu fat$c_fixed then
: 909 1406 2     anl$format_line(0,1,anlrms$_longrec,.anl$gl_fat[fat$w_rsize]);
: 910 1407 2
: 911 1408 2 ! Now the header size for variable with fixed control.
: 912 1409 2
: 913 1410 2 if .anl$gl_fat[fat$w_rtype] eqlu fat$c_vfc then
: 914 1411 2     anl$format_line(0,1,anlrms$_ct[size,.anl$gl_fat[fat$b_vfcsz]);
: 915 1412 2
: 916 1413 2 ! Now the number of blocks allocated, extend quantity, and the end-of-file
: 917 1414 2 ! information.
: 918 1415 2
: 919 1416 2 anl$format_line(0,1,anlrms$_alloc,.anl$gl_fat[fat$l_hiblk],.anl$gl_fat[fat$w_defext]);
: 920 1417 2 if .anl$gl_fat[fat$w_fileorg] eqlu fat$c_sequential then
: 921 1418 2     anl$format_line(0,1,anlrms$_eof,.anl$gl_fat[fat$l_efblk],.anl$gl_fat[fat$w_ffbyte]);
: 922 1419 2
: 923 1420 2 ! Now the bucket size, unless it's a sequential file.
: 924 1421 2
: 925 1422 2 if .anl$gl_fat[fat$w_fileorg] eqlu fat$c_relative or .anl$gl_fat[fat$w_fileorg] eqlu fat$c_indexed then
: 926 1423 2     anl$format_line(0,1,anlrms$_bucketsize,.anl$gl_fat[fat$b_bktsz]);
: 927 1424 2
: 928 1425 2 ! Finally, display the global buffer count.
: 929 1426 2
: 930 1427 2 anl$format_line(0,1,anlrms$_globalbufs,.anl$gl_fat[fat$w_gbc]);
: 931 1428 2
: 932 1429 2 return;
: 933 1430 2
: 934 1431 1 end;

```

													.PSECT		\$SPLITS,NOWRT,NOEXE,2						
					6C	61	69	74	6E	65	75	71	65	73	0A	00098	P.ABE:	.ASCII	<10>\sequential\		
							65	76	69	74	61	6C	65	72	08	000A3	P.ABF:	.ASCII	<8>\relative\		
								64	65	78	65	64	6E	69	0C	000AC	P.ABG:	.ASCII	<7>\indexed\		
						64	65	6E	69	66	65	64	6E	75	04	000B4	P.ABH:	.ASCII	<9>\undefined\		
							65	6C	62	61	69	72	61	76	05	000BE	P.ABI:	.ASCII	<5>\fixed\		
						65	6C	62	61	69	72	61	76	08	000C4	P.ABJ:	.ASCII	<8>\variable\			
2D	68	74	69	77	2D	65	6C	62	61	69	72	61	76	1B	000CD	P.ABK:	.ASCII	<27>\variable-with-fixed-control\			
		6C	6F	72	74	6E	6F	63	2D	54	65	78	69	66	000DC						
							6D	61	65	72	74	73	06	000E9	P.ABL:	.ASCII	<6>\stream\				
					46	4C	2D	6D	61	65	72	74	73	09	000F0	P.ABM:	.ASCII	<9>\stream-LF\			
					52	43	2D	6D	61	65	72	74	73	09	000FA	P.ABN:	.ASCII	<9>\stream-CR\			
							6E	61	70	73	2D	6F	6E	07	00104	P.ABO:	.ASCII	<7>\no-span\			
														00	0010C	P.ABP:	.ASCII	<0>			
72	75	74	65	72	2D	65	67	61	69	72	72	61	63	0F	0010D	P.ABQ:	.ASCII	<15>\carriage-return\			
														6E	0011C						
							6E	61	72	74	72	6F	66	07	0011D	P.ABR:	.ASCII	<7>\fortran\			
								74	6E	69	72	70	05	00125	P.ABS:	.ASCII	<5>\print\				
														00	0012B	P.ABT:	.ASCII	<0>			

				.PSECT	\$CODE\$,NOWRT,2	
			001C 00000	.ENTRY	ANLSFORMAT_FILE_ATTRIBUTES, Save R2,R3,R4	1366
		54	0000G CF 9E 00002	MOVAB	ANLSGL_FAT, R4	
		53	FCE2 CF 9E 00007	MOVAB	ANLSFORMAT_LINE, R3	
		52	0000' CF 9E 0000C	MOVAB	P.ABE, R2	
			00000000G 8F DD 00011	PUSHL	#ANLRMSS_FILEATTR	1371
		7E	03 7D 00017	MOVQ	#3, -(SP)	
		63	03 FB 0001A	CALLS	#3, ANLSFORMAT_LINE	
			7E D4 0001D	CLRL	-(SP)	1372
51	00	B4	00F6 C3 01 FB 0001F	CALLS	#1, ANLSFORMAT_SKIP	
		04	04 EF 00024	EXTZV	#4, #4, @ANLSGL_FAT, R1	1376
			05 12 0002A	BNEQ	1\$	1377
		50	62 9E 0002C	MOVAB	P.ABE, R0	
			19 11 0002F	BRB	4\$	
		01	51 D1 00031 1\$:	CMPL	R1, #1	1378
			06 12 00034	BNEQ	2\$	
		50	08 A2 9E 00036	MOVAB	P.ABF, R0	
			0E 11 0003A	BRB	4\$	
		02	51 D1 0003C 2\$:	CMPL	R1, #2	1379
			05 13 0003F	BEQL	3\$	
		7E	01 CE 00041	MNEGL	#1, -(SP)	
			06 11 00044	BRB	5\$	
		50	14 A2 9E 00046 3\$:	MOVAB	P.ABG, R0	
			50 DD 0004A 4\$:	PUSHL	R0	
			00000000G 8F DD 0004C 5\$:	PUSHL	#ANLRMSS_FILEORG	1376
			01 DD 00052	PUSHL	#1	
			7E D4 00054	CLRL	-(SP)	
		63	04 FB 00056	CALLS	#4, ANLSFORMAT_LINE	
50	00	B4	04 00 EF 00059	EXTZV	#0, #4, @ANLSGL_FAT, R0	1385
			06 12 0005F	BNEQ	6\$	1386
		51	1C A2 9E 00061	MOVAB	P.ABH, R1	
			35 11 00065	BRB	11\$	
		01	50 D1 00067 6\$:	CMPL	R0, #1	1387
			06 12 0006A	BNEQ	7\$	
		51	26 A2 9E 0006C	MOVAB	P.ABI, R1	
			2A 11 00070	BRB	11\$	
		02	50 D1 00072 7\$:	CMPL	R0, #2	1388
			06 12 00075	BNEQ	8\$	
		51	2C A2 9E 00077	MOVAB	P.ABJ, R1	
			1F 11 0007B	BRB	11\$	
		03	50 D1 0007D 8\$:	CMPL	R0, #3	1389
			06 12 00080	BNEQ	9\$	
		51	35 A2 9E 00082	MOVAB	P.ABK, R1	
			14 11 00086	BRB	11\$	
		04	50 D1 00088 9\$:	CMPL	R0, #4	1390
			06 12 0008B	BNEQ	10\$	
		51	51 A2 9E 0008D	MOVAB	P.ABL, R1	
			09 11 00091	BRB	11\$	
		05	50 D1 00093 10\$:	CMPL	R0, #5	1391
			08 12 00096	BNEQ	12\$	
		51	58 A2 9E 00098	MOVAB	P.ABM, R1	
			51 DD 0009C 11\$:	PUSHL	R1	
			10 11 0009E	BRB	14\$	
		06	50 D1 000A0 12\$:	CMPL	R0, #6	1392

			00000000G	8F	DD	00161	PUSHL	#ANLRM\$\$_ALLOC	
				01	DD	00167	PUSHL	#1	
				7E	D4	00169	CLRL	-(SP)	
		63		05	FB	0016B	CALLS	#5, ANL\$FORMAT_LINE	
		50		64	DO	0016E	MOVL	ANL\$GL_FAT, R0	1417
	FO	8F		60	93	00171	BITB	(R0), #240	
				14	12	00175	BNEQ	24\$	
		7E	0C	A0	3C	00177	MOVZWL	12(R0), -(SP)	1418
			08	A0	DD	0017B	PUSHL	8(R0)	
			00000000G	8F	DD	0017E	PUSHL	#ANLRM\$\$_EOF	
				01	DD	00184	PUSHL	#1	
				7E	D4	00186	CLRL	-(SP)	
		63		05	FB	00188	CALLS	#5, ANL\$FORMAT_LINE	
		50		64	DO	0018B	MOVL	ANL\$GL_FAT, R0	1422
01		60		04	04	0018E	CMPZV	#4, #4, (R0), #1	
				07	13	00193	BEQL	25\$	
02		60		04	04	00195	CMPZV	#4, #4, (R0), #2	
				11	12	0019A	BNEQ	26\$	
		7E	0E	A0	9A	0019C	MOVZBL	14(R0), -(SP)	1423
			00000000G	8F	DD	001A0	PUSHL	#ANLRM\$\$_BUCKETSIZE	
				01	DD	001A6	PUSHL	#1	
				7E	D4	001A8	CLRL	-(SP)	
		63		04	FB	001AA	CALLS	#4, ANL\$FORMAT_LINE	
		50		64	DO	001AD	MOVL	ANL\$GL_FAT, R0	1427
		7E	14	A0	3C	001B0	MOVZWL	20(R0), -(SP)	
			00000000G	8F	DD	001B4	PUSHL	#ANLRM\$\$_GLOBALBUFS	
				01	DD	001BA	PUSHL	#1	
				7E	D4	001BC	CLRL	-(SP)	
		63		04	FB	001BE	CALLS	#4, ANL\$FORMAT_LINE	
				04	001C1		RET		1431

: Routine Size: 450 bytes. Routine Base: \$CODE\$ + 04E5

: 935 1432 1
: 936 1433 0 end eludom

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	1736	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	300	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1703	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

file	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS FILE 16-Sep-1984 00:10:49
ANL\$FORMAT_FILE_ATTRIBUTES - Format File Attrib 14-Sep-1984 11:53:01

VAX-11 BLISS-32 V4.0-742
[ANALYZ.SRC]RMSREPORT.B32;1

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(12)

:
: _\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 84 0 1000 00:01.8

:
: COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RMSREPORT/OBJ=OBJ\$:RMSREPORT MSRC\$:RMSREPORT/UPDATE=(ENH\$:RMSREPORT)

: Size: 1703 code + 2036 data bytes
: Run Time: 00:34.3
: Elapsed Time: 01:49.7
: Lines/CPU Min: 2507
: Lexemes/CPU-Min: 21226
: Memory Used: 264 pages
: Compilation Complete

0009 AH-BT13A-SE
VAX/VMS V4.0

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The image displays a grid of 100 terminal windows, arranged in 10 rows and 10 columns. Each window shows a different screen from the VAX/VMS operating system. The screens contain various types of data, including:

- System Utilities:** Screens for `BACKUP`, `BACKUP MAP`, `STABACKUP`, `STABACKUP MAP`, `BACKDEF`, and `COMMON REQ`.
- Reports:** Screens for `RMSREPORT` and `RMSSTATS`.
- System Information:** Screens for `FILE`, `FILE`, `FILE`, `FILE`, `FILE`, `FILE`, `FILE`, `FILE`, `FILE`, and `FILE`.
- Other Utilities:** Screens for `PRGT`, `PRGT`, `PRGT`, `PRGT`, `PRGT`, `PRGT`, `PRGT`, `PRGT`, `PRGT`, and `PRGT`.

The text on the screens is mostly monospaced and appears as light gray or white on a dark background. Some screens show headers like "DEPARTMENT OF DEFENSE" and "SYSTEMS SUPPORT".