

RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF

RRRRRRRR	TTTTTTTTT	EEEEEEEEEE	RRRRRRRR	MM	MM	
RRRRRRRR	TTTTTTTTT	EEEEEEEEEE	RRRRRRRR	MM	MM	
RR	TT	EE	RR	MMMM	MMMM	
RR	TT	EE	RR	MMMM	MMMM	
RR	TT	EE	RR	MM	MM	
RR	TT	EE	RR	MM	MM	
RRRRRRRR	TT	EEEEEEEE	RRRRRRRR	MM	MM	
RRRRRRRR	TT	EEEEEEEE	RRRRRRRR	MM	MM	
RR	TT	EE	RR	MM	MM	
RR	TT	EE	RR	MM	MM	
RR	TT	EE	RR	MM	MM	
RR	TT	EE	RR	MM	MM	
RR	TT	EEEEEEEEEE	RR	MM	MM	
RR	TT	EEEEEEEEEE	RR	MM	MM	

....

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
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS


```
0001 0 %TITLE 'RUNOFF termination and cleanup'
0002 0 MODULE rterm ( IDENT = 'V04-000'
P 0003 0 %BLISS32 [ ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0004 0 NONEXTERNAL = LONG_RELATIVE) ]
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1
0032 1 ++
0033 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0034 1
0035 1 ABSTRACT: Routine for normal termination of a document.
0036 1
0037 1 ENVIRONMENT: Transportable
0038 1
0039 1 AUTHOR: R.W.Friday CREATION DATE: April, 1978
0040 1
```



```

: 42 0041 1 %SBTTL 'Revision History'
: 43 0042 1   MODIFIED BY:
: 44 0043 1
: 45 0044 1
: 46 0045 1   032   KFA00032   Ken Alden   21-Oct-1983
: 47 0046 1   RNFIPF would still get output if the last page of the file
: 48 0047 1   was the one selected by the /PAGES qualifier. This has
: 49 0048 1   been corrected.
: 50 0049 1
: 51 0050 1   031   KFA00031   Ken Alden   06-Oct-1983
: 52 0051 1   Added a warning message for users who said /PAGES but
: 53 0052 1   issued a page string that never matched any pages in the doc.
: 54 0053 1
: 55 0054 1   030   REM00030   Ray Marshall 10-Aug-1983
: 56 0055 1   KWTRPN and OUTCREP were declared (but not used) when DSRPLUS
: 57 0056 1   was false. This caused LINKer errors when building RUNOFF.
: 58 0057 1
: 59 0058 1   029   REM00029   Ray Marshall 22-Jul-1983
: 60 0059 1   Defined TTYRES and DISPSI as NOVALUE to match the way they
: 61 0060 1   are coded.
: 62 0061 1   Added BLISS36 ONLY logic at the end of routine RTERM to release
: 63 0062 1   the dynamic memory used for the cross-ref data structures
: 64 0063 1   back to the system. Then, we can clear the listhead (pointer)
: 65 0064 1   so that when the .BRN is read on another run, it doesn't
: 66 0065 1   have the old names lying around. This was needed because
: 67 0066 1   in this environment, the image does not have to be reloaded
: 68 0067 1   for successive runs through DSR. This is only a DSRPLUS
: 69 0068 1   addition.
: 70 0069 1
: 71 0070 1   028   KFA00028   Ken Alden   19-Jul-1983
: 72 0071 1   Fixed the /pages bug with gca_page_cnt.
: 73 0072 1
: 74 0073 1   027   KFA00027   Ken Alden   14-Jul-1983
: 75 0074 1   Suppressed CRU if /auto.
: 76 0075 1   Removed CR3.
: 77 0076 1
: 78 0077 1   026   KFA00026   Ken Alden   13-Jul-1983
: 79 0078 1   Altered the output of cref info messages slightly.
: 80 0079 1
: 81 0080 1   025   KAD00025   Keith Dawson 10-Jun-1983
: 82 0081 1   Cref-changed condition should not increment /AUTO count in
: 83 0082 1   first pass (already been incremented).
: 84 0083 1
: 85 0084 1   024   RER00024   Ron Randall  1-Jun-1983
: 86 0085 1   Added code that checks for need to output deferred figures.
: 87 0086 1
: 88 0087 1   023   KAD00023   Keith Dawson 27-May-1983
: 89 0088 1   Make sure Cref-changed condition increments /AUTO count.
: 90 0089 1
: 91 0090 1   022   KAD00022   Keith Dawson  3-May-1983
: 92 0091 1   Suppress 'Cref-changed' messages on early /AUTO passes.
: 93 0092 1
: 94 0093 1   021   KAD00021   Keith Dawson 11-Apr-1983
: 95 0094 1   Add new termination messages (RNFPC2, PC3, PC4, PC5) for
: 96 0095 1   information written to the .BRN file (and for DSRPLUS
: 97 0096 1   cross-referencing, also read from the input .BRN file).
: 98 0097 1
: 020   RER00020   Ron Randall 17-Mar-1983
```


RTERM
V04-000

RUNOFF termination and cleanup
Revision History

H 13
16-Sep-1984 01:41:18
14-Sep-1984 13:07:58

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1 (2) Page 3

: 99
: 100
: 101
: 102
: 103
: 104
: 105

0098 1 |
0099 1 |
0100 1 |
0101 1 |
0102 1 |
0103 1 |--
0104 1 |

019

For DSRPLUS: Added termination for topnotes.

REM00019 Ray Marshall 07-Mar-1983
Global edit of all modules. Updated module names, idsents,
copyright dates. Changed require files to BLISS library.

RTERM
V04-000

RUNOFF termination and cleanup
Module Level Declarations

I 13
16-Sep-1984 01:41:18
14-Sep-1984 13:07:58

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1 (3) Page 4

```

: 107      0105 1 %SBTTL 'Module Level Declarations'
: 108      0106 1
: 109      0107 1 INCLUDE FILES:
: 110      0108 1
: 111      0109 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library
: 112      0110 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
: 113      0241 1
: 114      U 0242 1 %IF DSRPLUS %THEN
: 115      U 0243 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
: 116      0244 1 %ELSE
: 117      0245 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
: 118      0246 1 %FI
: 119      0247 1
: 120      0248 1
: 121      0249 1 MACROS:
: 122      0250 1
: 123      0251 1 MACRO
: 124      0252 1
: 125      0253 1     Close a file on a given IOB, if it was open.
: 126      0254 1
: 127      M 0255 1     close_if_open (which_iob) =
: 128      M 0256 1         IF .which_iob [IOB$V_OPEN]
: 129      M 0257 1             THEN
: 130      M 0258 1                 status = $XPO_CLOSE (IOB = which_iob)
: 131      0259 1     %;
: 132      0260 1
: 133      0261 1 MACRO
: 134      0262 1
: 135      0263 1     This macro makes certain that when blank lines
: 136      0264 1     are skipped, change bars don't get output.
: 137      0265 1
: 138      M 0266 1     no_bar_skip (n) =
: 139      M 0267 1         BEGIN
: 140      M 0268 1             LOCAL
: 141      M 0269 1                 holdBars;
: 142      M 0270 1
: 143      M 0271 1                 holdBars = .tsfBars;
: 144      M 0272 1                 tsfBars = false;
: 145      M 0273 1                 uskipl (n);
: 146      M 0274 1                 tsfBars = .holdBars;
: 147      0275 1     END %;
: 148      0276 1
: 149      0277 1 EXTERNAL REFERENCES:
: 150      0278 1
: 151      0279 1 EXTERNAL
: 152      0280 1     fnct      : fnct_definition,
: 153      0281 1     fra       : FIXED_STRING,
: 154      0282 1     gca       : gca_definition,
: 155      0283 1     hct       : hct_definition,
: 156      U 0284 1 %IF DSRPLUS %THEN
: 157      U 0285 1     kwtrpn,      ! Keyword Table for .Reference_Point Names
: 158      0286 1 %FI
: 159      0287 1     phan      : phan_definition,
: 160      0288 1     tsf       : tsf_definition,
: 161      0289 1     brnoob    : $XPO_IOB (),
: 162      0290 1     tteioB    : $XPO_IOB (),
: 163      0291 1     ttiioB    : $XPO_IOB (),
```


RTERM
V04-000

RUNOFF termination and cleanup
Module Level Declarations

J 13
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```

: 164      0292 1      ttoiob      : $XPO_IOB (),
: 165      0293 1      tsiiob      : $XPO_IOB ();
: 166      0294 1
: 167      U 0295 1 %IF DSRPLUS %THEN
: 168      U 0296 1 EXTERNAL
: 169      U 0297 1      topnot      : tn_definition,
: 170      U 0298 1      tniiob      : REF $XPO_IOB (),
: 171      U 0299 1      tnuioib     : REF $XPO_IOB ();
: 172      U 0300 1
: 173      U 0301 1 EXTERNAL LITERAL
: 174      U 0302 1      rnfpc4,
: 175      U 0303 1      rnfpc5,
: 176      U 0304 1      rnfcr4,
: 177      U 0305 1      rnfcr5,
: 178      U 0306 1      rnfcr6,
: 179      U 0307 1      rnfcr7,
: 180      U 0308 1      rnfcr8,
: 181      U 0309 1      rnfcr9,
: 182      U 0310 1
: 183      U 0311 1 EXTERNAL ROUTINE
: 184      U 0312 1      tnfil,
: 185      U 0313 1      erms,
: 186      U 0314 1      tpnote;
: 187      U 0315 1 %FI
: 188      U 0316 1
: 189      U 0317 1 EXTERNAL LITERAL
: 190      U 0318 1      rnfefd,
: 191      U 0319 1      rnfefd,
: 192      U 0320 1      rnfefl,
: 193      U 0321 1      rnfipf,
: 194      U 0322 1      rnfndf,
: 195      U 0323 1      rnfpc1,
: 196      U 0324 1      rnfpc2,
: 197      U 0325 1      rnfpc3;
: 198      U 0326 1
: 199      U 0327 1 EXTERNAL ROUTINE
: 200      U 0328 1      botpag,      clh,      cpageb,
: 201      U 0329 1      erm,          erml,      fn,      foobot,      fooout,
: 202      U 0330 1 %IF DSRPLUS %THEN
: 203      U 0331 1      outcref,
: 204      U 0332 1 %FI
: 205      U 0333 1      outnj,      tpr,      putmsg,      remneg,      remmrg,      uskipl;
: 206      U 0334 1      toppag,
: 207      U 0335 1
: 208      U 0336 1 %IF (%BLISS (BLISS36) AND DSRPLUS) %THEN
: 209      U 0337 1 EXTERNAL ROUTINE
: 210      U 0338 1      dispsi : NOVALUE,      ttyres : NOVALUE,
: 211      U 0339 1      freref : NOVALUE;      ! Free's C-REF data structure buffers.
: 212      U 0340 1 %FI
: 213      U 0341 1
```

RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

K 13
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14-Sep-1984 13:07:58

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1 Page 6
(4)

```

215 0342 1 %SBTTL 'RTERM - RUNOFF termination'
216 0343 1 GLOBAL ROUTINE rterm : NOVALUE =
217 0344 1
218 0345 1 !++
219 0346 1 FUNCTIONAL DESCRIPTION:
220 0347 1
221 0348 1 RUNOFF termination.
222 0349 1
223 0350 1 FORMAL PARAMETERS: None
224 0351 1
225 0352 1 IMPLICIT INPUTS: None
226 0353 1
227 0354 1 IMPLICIT OUTPUTS: None
228 0355 1
229 0356 1 ROUTINE VALUE:
230 0357 1 COMPLETION CODES: None
231 0358 1
232 0359 1 SIDE EFFECTS: None
233 0360 1 --
234 0361 1
235 0362 2 BEGIN
236 0363 2 LOCAL
237 0364 2 hold_phan_top_page,
238 0365 2 status;
239 0366 2
240 0367 2 tsttfe (0); ! Check for too few ends.
241 0368 2 remneg (); ! Check for unreported bad backdents.
242 0369 2 remmrg (); ! Check for unreported bad margin settings.
243 0370 2
244 0371 2 IF .fnct_collecting ! Missing .END FOOTNOTE.
245 0372 2 THEN
246 0373 2 BEGIN
247 0374 2 erml (rnfeftd); ! Report the error.
248 0375 2 fn (h_end_footnote); ! Terminate footnote activity.
249 0376 2 END;
250 0377 2
251 U 0378 2 %IF DSRPLUS %THEN
252 U 0379 2
253 U 0380 2 Missing .END TOPNOTE.
254 U 0381 2
255 U 0382 2 IF .tn_collecting
256 U 0383 2 THEN
257 U 0384 2 BEGIN
258 U 0385 2 erml (rnfetd); ! Report the error.
259 U 0386 2 tpnote (h_end_topnote); ! Terminate topnote activity.
260 U 0387 2
261 U 0388 2
262 U 0389 2 ! If topnote file happens to be open, close it.
263 U 0390 2
264 U 0391 2 IF .tnuiob [IOB$V_OPEN]
265 U 0392 2 THEN
266 U 0393 2 BEGIN
267 U 0394 2 tn_type = 0;
268 U 0395 2 tnfil (tn_close);
269 U 0396 2 END;
270 U 0397 2
271 U 0398 2 IF .tniob [IOB$V_OPEN]
```


RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

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VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1 Page 7
(4)

```
.. 272      U 0399      2      THEN
.. 273      UU 0400      BEGIN
.. 274      UU 0401      tn_type = 1;
.. 275      UU 0402      tnfil (tn_close);
.. 276      UU 0403      END;
.. 277      UU 0404
.. 278      UU 0405      END;
.. 279      UU 0406
.. 280      UU 0407      |
.. 281      UU 0408      | Delete both topnote files.
.. 282      UU 0409      |
.. 283      UU 0410      tn_type = 0;
.. 284      UU 0411      tnfil (tn_delete);
.. 285      UU 0412      tn_type = 1;
.. 286      UU 0413      tnfil (tn_delete);
.. 287      UU 0414      %FI
.. 288      UU 0415
.. 289      UU 0416      outnj ();
.. 290      UU 0417      hold_phan_top_page = .phan_top_page;
.. 291      UU 0418      | Remember if the user said
.. 292      UU 0419      | .PAGE as the last thing in
.. 293      UU 0420      | his .RNO file.
.. 294      UU 0421      %IF DSRPLUS %THEN
.. 295      UU 0422      | If any cross-reference information has not been written
.. 296      UU 0423      | to the .BRN file yet, write it now.
.. 297      UU 0424      WHILE .tsf_cref_data NEQ 0 DO
.. 298      UU 0425      BEGIN
.. 299      UU 0426      LOCAL current_block : REF VECTOR [0];
.. 300      UU 0427      current_block = .tsf_cref_data;
.. 301      UU 0428      erms (rnfile,
.. 302      UU 0429      CH$PTR(current_block[5]), .current_block[4]);
.. 303      UU 0430      outcref ()
.. 304      UU 0431      END;
.. 305      UU 0432      %FI
.. 306      UU 0433
.. 307      UU 0434      |
.. 308      UU 0435      | Force out waiting footnotes, if any.
.. 309      UU 0436      |
.. 310      UU 0437      IF .fnct_count NEQ 0
.. 311      UU 0438      THEN
.. 312      UU 0439      | There are footnotes to be output.
.. 313      UU 0440      IF NOT .phan_paging OR (.phan_llines GEQ (2 * .phan_slines))
.. 314      UU 0441      THEN
.. 315      UU 0442      | If not paging, just put out footnotes immediately.
.. 316      UU 0443      | Ditto, if the page is rather long.
.. 317      UU 0444      |
.. 318      UU 0445      BEGIN
.. 319      UU 0446      |
.. 320      UU 0447      | Special case: We're at the very top of the first page.
.. 321      UU 0448      |
.. 322      UU 0449      IF .phan_top_first
.. 323      UU 0450      THEN
.. 324      UU 0451      toppag ();
.. 325      UU 0452
.. 326      UU 0453
.. 327      UU 0454      foout (.fnct_count)      ! Dump them all at once.
.. 328      UU 0455      END
```

RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

M 13
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VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1
Page 8
(4)

```

: 329      0456      2      ELSE
: 330      0457      2
: 331      0458      2      | There's a whole pile of footnotes left over, and they
: 332      0459      2      | have to be output at the bottom of the page. This may involve
: 333      0460      2      | spreading them out across several pages.
: 334      0461      2
: 335      0462      2      BEGIN
: 336      0463      2
: 337      0464      2
: 338      0465      2      | Special case: We're at the very top of the first page.
: 339      0466      2
: 340      0467      2      IF .phan_top_first
: 341      0468      2      THEN
: 342      0469      2          toppag ();
: 343      0470      2
: 344      0471      2
: 345      0472      2      | Loop over all remaining footnotes
: 346      0473      2
: 347      0474      2      WHILE 1 DO
: 348      0475      4          BEGIN
: 349      0476      4
: 350      0477      4      | First get rid of as many footnotes as possible.
: 351      0478      4
: 352      0479      4      foobot ();
: 353      0480      4
: 354      0481      4
: 355      0482      4      | Now see if there's any more to be output. If not, we're at
: 356      0483      4      | the real end of the document (almost).
: 357      0484      4
: 358      0485      4      IF .fnct_count GTR 0
: 359      0486      4      THEN
: 360      0487      4
: 361      0488      4      | Because not all footnotes were output, we have to
: 362      0489      4      | start a new page, so that successive iterations
: 363      0490      4      | through this loop force out additional ones.
: 364      0491      4
: 365      0492      5          BEGIN
: 366      0493      5      | First, finish the bottom of the page
: 367      0494      5      | And now start the next page.
: 368      0495      5      |
: 369      0496      4          ELSE
: 370      0497      4
: 371      0498      4      | All footnotes have been output. Termination of this
: 372      0499      4      | page is handled in a special way.
: 373      0500      4
: 374      0501      4      EXITLOOP
: 375      0502      4
: 376      0503      4      END
: 377      0504      4
: 378      0505      2      END;
: 379      0506      2
: 380      0507      2
: 381      0508      2      | Force out FIGURE DEFERRED space, if any.
: 382      0509      2
: 383      0510      2      IF .phan_figure NEQ 0
: 384      0511      2      THEN
: 385      0512      3          BEGIN
```


RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

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DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1 Page 9
(4)

```

386 0513
387 0514
388 0515      | Special case: We're at the very top of the first page.
389 0516
390 0517      | IF .phan_top_first
391 0518      | THEN
392 0519      |
393 0520      |     Automatically dumps out the space after starting a page.
394 0521      |
395 0522      |     toppag ()
396 0523      | ELSE
397 0524      |
398 0525      |     Dump out the space.
399 0526      |
400 0527      |     no_bar_skip (.phan_figure);
401 0528
402 0529      | END;
403 0530
404 0531      |
405 0532      | If the page number is to be centered at the bottom of the
406 0533      | page then position there and output it.
407 0534
408 0535      | IF .hct_layoutn NEQ 0
409 0536      | THEN
410 0537      |     cpageb ();
411 0538
412 0539      |
413 0540      | If /PAUSE or /SIMULATE force next page before
414 0541      | generating summary information.
415 0542
416 0543      | IF .phan_pause OR .phan_simulate
417 0544      | THEN
418 0545      |     BEGIN
419 0546      |
420 0547      |         Always force blank lines at end of document when in /SIMULATE mode.
421 0548      |         If skipping output, phan_bottom has already been set by the last
422 0549      |         page actually output. If this is the 'normal case', i.e., user didn't
423 0550      |         specify /PAGES, then this is the time to update phan_bottom, since
424 0551      |         NEWPAG won't get called to do it.
425 0552      |
426 0553      |         IF NOT .gca_skip_out
427 0554      |         THEN
428 0555      |             phan_bottom = .phan_lines_tp;      ! UFORM expects phan_bottom set.
429 0556
430 0557      |
431 0558      |         Force on generation of output so blank lines get output
432 0559      |
433 0560      |         gca_skip_out = false;
434 0561      |         uform ();
435 0562      |         END
436 0563      |     ELSE
437 0564      |
438 0565      |         Not /SIMULATE or /PAUSE
439 0566      |
440 0567      |         IF .hold_phan_top_page AND (NOT .gca_cmd_quick)
441 0568
442 0569
```



```

443      0570      3      |
444      0571      3      | If user said /NOOUTPUT, don't call CLH.
445      0572      3      |
446      0573      3      | THEN
447      0574      3      |
448      0575      3      | User said .PAGE after all text was finished, intending
449      0576      3      | to generate a form-feed
450      0577      3      |
451      0578      3      | BEGIN
452      0579      3      | fs_init (fra);
453      0580      3      | fs_wchar (fra, %0'14');      ! Insert a form feed
454      0581      3      | clh (clh_out_nocrlf)
455      0582      3      | END;
456      0583      3      |
457      U 0584      2      %IF DSRPLUS %THEN
458      U 0585      2      IF .gca_cref_changed      ! Did one change on last run?
459      U 0586      2      THEN
460      U 0587      2      BEGIN
461      U 0588      2      |
462      U 0589      2      %IF %BLISS (BLISS32) %THEN
463      U 0590      2      +
464      U 0591      2      | This logic increments the rerun count if necessary. It assures that the
465      U 0592      2      | file will be rerun only if the user said /AUTO. On Pass 1, if no previous
466      U 0593      2      | .BRN file existed, the rerun count has already been incremented (by DOOPTS),
467      U 0594      2      | so we do not increment again.
468      U 0595      2      |
469      U 0596      2      | IF .gca_black_box
470      U 0597      2      | AND
471      U 0598      2      | ( (.gca_pass_count NEQ 1)
472      U 0599      2      | OR
473      U 0600      2      | .gca_old_brn_exists )
474      U 0601      2      THEN
475      U 0602      2      gca_rerun_count = .gca_rerun_count + 1;
476      U 0603      2      |
477      U 0604      2      IF .gca_pass_count EQL 4
478      U 0605      2      THEN
479      U 0606      2      BEGIN
480      U 0607      2      putmsg (rnfcro, 0, 0);      ! Tell user cross-refs are oscillating,
481      U 0608      2      putmsg (rnfcrl, 0, 0);      ! ... and how he can find out where.
482      U 0609      2      END
483      U 0610      2      ELSE
484      U 0611      2      |
485      U 0612      2      IF .gca_pass_count GTR .gca_rerun_count
486      U 0613      2      THEN
487      U 0614      2      BEGIN
488      U 0615      2      %FI
489      U 0616      2      putmsg (rnfcrc, 0, 0);      ! Tell user forward cross-refs changed,
490      U 0617      2      putmsg (rnfcrl, 0, 0);      ! ... and what he can do
491      U 0618      2      putmsg (rnfcrl, 0, 0);      ! ... about it.
492      U 0619      2      |
493      U 0620      2      %IF %BLISS (BLISS32) %THEN
494      U 0621      2      END;
495      U 0622      2      %FI
496      U 0623      2      |
497      U 0624      2      END;
498      U 0625      2      |
499      U 0626      2      IF .gca_cref_errcnt GTR 0
```


RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

C 14
16-Sep-1984 01:41:18
14-Sep-1984 13:07:58

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RUN
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```

500      U 0627 2      THEN
501      U 0628 2      BEGIN
502      U 0629 2      putmsg (rnfcru, .gca_cref_errcnt, 0); ! Unresolved refs
503      U 0630 2      IF NOT .gca_black_box
504      U 0631 2      THEN
505      U 0632 2      putmsg (rnfcrl, 0, 0);          ! ... and what he can do
506      U 0633 2      END;
507      U 0634 2      %FI
508      U 0635 2      |
509      U 0636 2      | If the user specified /PAGES but no pages were output then tell him so.
510      U 0637 2      |
511      U 0638 2      IF .gca_cmd_pages
512      U 0639 2      AND
513      U 0640 2      (.phan_lines_tp EQL 0)
514      U 0641 2      AND
515      U 0642 2      (.gca_page_cnt EQL 0)
516      U 0643 2      THEN
517      U 0644 2      putmsg (rnfipf, 0, 0);
518      U 0645 2
519      U 0646 2      IF .gca_fehler
520      U 0647 2      THEN
521      U 0648 2      putmsg (rnferd, .gca_errcnt, 0) ! If any errors were detected,
522      U 0649 2      ELSE                          ! report # of lines of error messages.
523      U 0650 2      IF .termination_log           ! If no errors detected and
524      U 0651 2      THEN                          ! /LOG was specified,
525      U 0652 2      putmsg (rnfned, 0, 0);         ! then just identify version and
526      U 0653 2      IF .termination_log           ! report 0 diagnostics.
527      U 0654 2      THEN
528      U 0655 2
529      U 0656 2      |
530      U 0657 2      | The following IF supplies the following logic: If /NOOUT was specified,
531      U 0658 2      | this block isn't done. If not, and either /LOG was specified or errors
532      U 0659 2      | were encountered, then perform the block.
533      U 0660 2      |
534      U 0661 2      IF (.termination_log OR .gca_fehler)
535      U 0662 2      THEN                          ! If so, then report pages.
536      U 0663 2      |
537      U 0664 2      | This block determines whether or not there is currently a valid page
538      U 0665 2      | count. If not, it attempts to calculate one based on the number of
539      U 0666 2      | lines output.
540      U 0667 2      |
541      U 0668 2      | Then it writes the second line of the termination message to the
542      U 0669 2      | log device. This line reports the number of pages output and
543      U 0670 2      | identifies the output filename.
544      U 0671 2      |
545      U 0672 2      BEGIN
546      U 0673 2      |
547      U 0674 2      |
548      U 0675 2      | If this is a document broken up into pages, then count logical pages.
549      U 0676 2      | Otherwise, (i.e. .NO PAGING) figure out # of spooled pages this is.
550      U 0677 2      |
551      U 0678 2      IF NOT .gca_cmd_quick
552      U 0679 2      THEN
553      U 0680 2      BEGIN
554      U 0681 2      IF (NOT .phan_paging)
555      U 0682 2      THEN
556      U 0683 2      !

```

```
557      0684 4      | Not a document organized into pages.
558      0685 4      | Assume output device spooler will break it up.
559      0686 4
560      0687 4      gca_page_cnt = .gca_page_cnt +
561      0688 4      (.phan_lines_tp + .phan_slines - 1) / .phan_slines
562      0689 4      ELSE
563      0690 4
564      0691 4      | Not .NO PAGING, so bump count only if last page is not empty.
565      0692 4      IF (.phan_lines_tp GTR 0)
566      0693 4      AND
567      0694 5      (NOT .gca_skip_out OR .gca_page_cnt GTR 0)
568      0695 4      THEN
569      0696 5      gca_page_cnt = .gca_page_cnt + 1;
570      0697 4
571      0698 4
572      0699 4
573      0700 4      | Report how many pages generated and to what file.
574      0701 4      putmsg (rnfpct, .gca_page_cnt, 0);
575      0702 4      END;
576      0703 4
577      0704 3
578      0705 3
579      0706 3
580      0707 3      | Report on what information, if any, was written to a .BRN file.
581      0708 3      (This is reported whether or not Quick processing was in effect.)
582      0709 3      If doing cross-referencing, also report how many cross-referencing
583      0710 3      hits were read from the old (input) .BRN file.
584      0711 3
585      0712 3      SELECT true OF
586      0713 3      SET
587      0714 3      [.gca_index_cnt GTR 0] : putmsg (rnfpct2, .gca_index_cnt, 0);
588      0715 3      [.gca_contents_cnt GTR 0] : putmsg (rnfpct3, .gca_contents_cnt, 0);
589      0716 3
590      U 0717 3      %IF DSRPLUS %THEN
591      UU 0718 3      [.gca_new_cref_cnt GTR 0] : putmsg (rnfpct4, .gca_new_cref_cnt, 0);
592      U 0719 3      [.gca_old_cref_cnt GTR 0] : putmsg (rnfpct5, .gca_old_cref_cnt, 0);
593      0720 3      %FI
594      0721 3
595      0722 3      TES;
596      0723 3
597      0724 3      END;
598      0725 3
599      U 0726 3      %IF (%BLISS (BLISS36) AND DSRPLUS) %THEN
600      UU 0727 3      +
601      UU 0728 3      | Call TTYRES to restore terminal to its original mode (don't pass
602      UU 0729 3      | escape sequences, and reset wrapping width). This call is made only
603      U 0730 3      | if the user said /DEC=VT100, which caused these terminal characteristics
604      U 0731 3      | to be modified. In this case, the saved terminal width in GCA_TWIDTH_36
605      U 0732 3      | will be different than its initialized value of -1.
606      UU 0733 3      -
607      UU 0734 3      dispsi ();
608      UU 0735 3      ! Disable the PSI CTRL/C interrupt.
609      UU 0736 3      IF .gca_twidth_36 NEQ -1
610      U 0737 3      THEN
611      U 0738 3      ttyres ();
612      0739 3      %FI
613      0740 2
```


RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

E 14
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```

: 614      0741      2      |
: 615      0742      2      | Close all files.
: 616      0743      2      |
: 617      0744      2      | close_if_open (brnoob);           ! Close intermediate binary file.
: 618      0745      2      | close_if_open (tteiob);
: 619      0746      2      | close_if_open (ttiioB);
: 620      0747      2      | close_if_open (ttoioB);
: 621      0748      2      | close_if_open (tsiioB);
: 622      0749      2      |
: 623      U 0750      2      | %IF (%BLISS (BLISS36) AND DSRPLUS) %THEN
: 624      U 0751      2      | +
: 625      U 0752      2      | | If there any entries in the cross-ref structure, make sure we release
: 626      U 0753      2      | | all of that dynamic memory and clear out the listhead's pointer. This
: 627      U 0754      2      | | is necessary because of the interactive way DSR/PLUS is used on TOPS-20.
: 628      U 0755      2      | | i.e. when RUNOFF is reentered, we don't want the previous run's text
: 629      U 0756      2      | | lying around.
: 630      U 0757      2      | | -
: 631      U 0758      2      | | BEGIN
: 632      U 0759      2      | | LOCAL
: 633      U 0760      2      | |     current_entry : REF VECTOR[0],
: 634      U 0761      2      | |     desc : REF $STR_DESCRIPTOR( CLASS=DYNAMIC ), ! string desc.
: 635      U 0762      2      | |     temp_pointer;
: 636      U 0763      2      | |
: 637      U 0764      2      | |     current_entry = .kwtrpn;
: 638      U 0765      2      | |
: 639      U 0766      2      | | WHILE current_entry[0] NEQ 0 DO
: 640      U 0767      2      | | BEGIN
: 641      U 0768      2      | |     freref (.current_entry[2]);           ! Release old c-ref bfrs.
: 642      U 0769      2      | |     desc = .current_entry[1];
: 643      U 0770      2      | |     $XPO_FREE_MEM ( STRING = ( .desc [str$h_length] ! ref. name,
: 644      U 0771      2      | |     .desc [str$a_pointer] ) );
: 645      U 0772      2      | |     $XPO_FREE_MEM ( BINARY_DATA = ( 2 ! descriptor for name,
: 646      U 0773      2      | |     .current_entry[1] ) );
: 647      U 0774      2      | |     temp_pointer = .current_entry[0];
: 648      U 0775      2      | |     $XPO_FREE_MEM ( BINARY_DATA = ( 3 ! and keyword block
: 649      U 0776      2      | |     .current_entry[0] ) );
: 650      U 0777      2      | |     current_entry = .temp_pointer
: 651      U 0778      2      | | END;
: 652      U 0779      2      | |     kwtrpn = 0           ! initialize listhead
: 653      U 0780      2      | | END;
: 654      U 0781      2      | | %FI
: 655      0782      2      | RETURN;
: 656      0783      1      | END;

```

! End of RTERM.

.TITLE RTERM RUNOFF termination and cleanup
.IDENT \V04-000\

.EXTRN FNCT, FRA, GCA, HCT
.EXTRN PHAN, TSF, BRNOOB
.EXTRN TTEIOB, TTIIIOB, TTOIOB
.EXTRN TSIIIOB, RNFEFD, RNFERD
.EXTRN RNFILE, RNFIFF, RNFNED
.EXTRN RNFPCT, RNFP2, RNFP3
.EXTRN BOTPAG, CLH, CPAGEB
.EXTRN ERM, ERML, FN, FOOBOT
.EXTRN FOOOUT, OUTNJ, PUTMSG

RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

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RUN
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.EXTRN REMNEG, REMMRG, TOPPAG
.EXTRN TPR, TSTTFF, UFORM
.EXTRN USKIPL, XPOS\$CLOSE
.EXTRN XPOS\$FAILURE

.PSECT \$CODE\$,NOWRT,2

.ENTRY RTERM, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 0343
MOVAB FNCT, R11
MOVAB XPOS\$CLOSE, R10
MOVAB XPOS\$FAILURE, R9
MOVAB PUTMSG, R8
MOVAB FRA+4, R7
MOVAB GCA+208, R6
MOVAB PHAN+12, R5
CLRL -(SP) : 0367
CALLS #1, TSTTFF
CALLS #0, REMNEG : 0368
CALLS #0, REMMRG : 0369
BLBC FNCT+20, 1\$: 0371
PUSHL #RNFEFD
CALLS #1, ERML : 0374
PUSHL #57 : 0375
CALLS #1, FN
CALLS #0, OUTNJ : 0416
MOVL PHAN, HOLD_PHAN_TOP_PAGE : 0417
TSTL FNCT : 0437
BEQL 7\$: 0439
BLBC @PHAN+40, 2\$
ASHL #1, PHAN+36, R0
CMPL @PHAN+4, R0
BLSS 4\$: 0450
BLBC PHAN+24, 3\$: 0452
CALLS #0, TOPPAG : 0454
PUSHL FNCT
CALLS #1, FOOOUT
BRB 7\$: 0467
BLBC PHAN+24, 6\$: 0469
CALLS #0, TOPPAG : 0479
CALLS #0, FOOBOT : 0485
TSTL FNCT
BLEQ 7\$: 0493
CALLS #0, BOTPAG : 0494
BRB 5\$: 0510
MOVL PHAN+16, R2
BEQL 9\$: 0517
BLBC PHAN+24, 8\$: 0522
CALLS #0, TOPPAG
BRB 9\$: 0527
MOVL TSF, R0
EXTZV #0, #1, 124(R0), HOLD_BARS
BICB2 #1, 124(R0)
PUSHL R2
CALLS #1, USKIPL
MOVL TSF, R0
INSV HOLD_BARS, #0, #1, 124(R0)
TSTL HCT+32 : 0535

OFFC 00000
5B 00000000G EF 9E 00002
5A 00000000G EF 9E 00009
59 00000000G EF 9E 00010
58 00000000G EF 9E 00017
57 00000000G EF 9E 0001E
56 00000000G EF 9E 00025
55 00000000G EF 9E 0002C
7E D4 00033
00000000G EF 01 FB 00035
00000000G EF 00 FB 0003C
00000000G EF 00 FB 00043
16 00000000G 14 AB E9 0004A
00000000G EF 8F DD 0004E
00000000G EF 01 FB 00054
00000000G EF 39 DD 0005B
00000000G EF 01 FB 0005D
00000000G EF 00 FB 00064 1\$:
54 F4 A5 D0 0006B
6B D5 0006F
44 13 00071
50 18 0B 1C B5 E9 00073
A5 01 78 00077
50 F8 B5 D1 0007C
16 19 00080
00000000G 07 0C A5 E9 00082 2\$:
00000000G EF 00 FB 00086
00000000G EF 6B DD 0008D 3\$:
00000000G EF 01 FB 0008F
07 0C 1F 11 00096
00000000G 07 0C A5 E9 00098 4\$:
00000000G EF 00 FB 0009C 5\$:
00000000G EF 00 FB 000A3 6\$:
6B D5 000AA
09 15 000AC
00000000G EF 00 FB 000AE
E5 11 000B5
52 04 A5 D0 000B7 7\$:
34 13 000BB
00000000G 09 0C A5 E9 000BD
EF 00 FB 000C1
27 11 000C8
53 00000000G EF D0 000CA 8\$:
01 00 EF 000D1
7C A0 01 8A 000D7
52 DD 000DB
00000000G EF 01 FB 000DD
50 00000000G EF D0 000E4
7C A0 01 00 F0 000EB
00000000G EF D5 000F1 9\$:

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V04-000

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00000000G	EF		07	13	000F7	BEQL	10\$		
	04	30	00	FB	000F9	CALLS	#0, CPAGEB		0537
	14	28	A5	E8	00100	BLBS	PHAN+60, 11\$		0543
	04	A0	A5	E9	00104	BLBC	PHAN+52, 13\$		
2C	A5		A6	E8	00108	BLBS	GCA+112, 12\$		0554
		A0	65	D0	0010C	MOVL	PHAN+12, PHAN+56		0556
00000000G	EF		A6	D4	00110	CLRL	GCA+112		0561
			00	FB	00113	CALLS	#0, UFORM		0562
	21		24	11	0011A	BRB	14\$		0543
	1E		54	E9	0011C	BLBC	HOLD PHAN TOP_PAGE, 14\$		0569
			66	E8	0011F	BLBS	GCA+208, T4\$		
FC	A7	08	A7	D4	00122	CLRL	FRA+12		0579
	67	0C	A7	9E	00125	MOVAB	FRA+16, FRA		
00	B7	FC	A7	D0	0012A	MOVL	FRA, FRA+4		
			0C	90	0012E	MOVB	#12, @FRA+4		0580
			67	D6	00132	INCL	FRA+4		
		08	A7	D6	00134	INCL	FRA+12		
			0B	DD	00137	PUSHL	#11		0581
14	00000000G	EF	01	FB	00139	CALLS	#1, CLH		
	01	A6	02	E1	00140	BBC	#2, GCA+209, 15\$		0638
			65	D5	00145	TSTL	PHAN+12		0640
			10	12	00147	BNEQ	15\$		
		88	A6	D5	00149	TSTL	GCA+88		0642
			0B	12	0014C	BNEQ	15\$		
			7E	7C	0014E	CLRQ	-(SP)		0644
	00000000G		8F	DD	00150	PUSHL	#RNFIPF		
68			03	FB	00156	CALLS	#3, PUTMSG		
0D		F0	A6	E9	00159	BLBC	GCA+192, 16\$		0646
			7E	D4	0015D	CLRL	-(SP)		0648
		F4	A6	DD	0015F	PUSHL	GCA+196		
	00000000G		8F	DD	00162	PUSHL	#RNFERD		
			0C	11	00168	BRB	17\$		
0F		66	01	E1	0016A	BBC	#1, GCA+208, 18\$		0651
			7E	7C	0016E	CLRQ	-(SP)		0653
	00000000G		8F	DD	00170	PUSHL	#RNFED		
		68	03	FB	00176	CALLS	#3, PUTMSG		
04		66	01	E0	00179	BBS	#1, GCA+208, 19\$		0661
		5C	A6	E9	0017D	BLBC	GCA+192, 25\$		
		33	66	E8	00181	BLBS	GCA+208, 23\$		0678
		11	B5	E8	00184	BLBS	@PHAN+40, 20\$		0681
50		65	A5	C1	00188	ADDL3	PHAN+36, PHAN+12, R0		0688
			50	D7	0018D	DECL	R0		
		50	A5	C6	0018F	DIVL2	PHAN+36, R0		
88		A6	50	C0	00193	ADDL2	R0, GCA+88		
			10	11	00197	BRB	22\$		0687
			65	D5	00199	TSTL	PHAN+12		0694
			0C	15	0019B	BLEQ	22\$		
	05	A0	A6	E9	0019D	BLBC	GCA+112, 21\$		0696
		88	A6	D5	001A1	TSTL	GCA+88		
			03	15	001A4	BLEQ	22\$		
		88	A6	D6	001A6	INCL	GCA+88		0698
			7E	D4	001A9	CLRL	-(SP)		0703
		88	A6	DD	001AB	PUSHL	GCA+88		
	00000000G		8F	DD	001AE	PUSHL	#RNFPC		
68			03	FB	001B4	CALLS	#3, PUTMSG		
50		90	A6	D0	001B7	MOVL	GCA+96, R0		0714
			0D	15	001BB	BLEQ	24\$		

RTERM
VO4-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

H 14
16-Sep-1984 01:41:18
14-Sep-1984 13:07:58

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		7E	D4	001BD	CLRL	-(SP)	
		50	DD	001BF	PUSHL	R0	
	00000000G	8F	DD	001C1	PUSHL	#RNFPC2	
68		03	FB	001C7	CALLS	#3, PUTMSG	
50	8C	A6	D0	001CA	MOVL	GCA+92, R0	0715
		0D	15	001CE	BLEQ	25\$	
		7E	D4	001D0	CLRL	-(SP)	
		50	DD	001D2	PUSHL	R0	
	00000000G	8F	DD	001D4	PUSHL	#RNFPC3	
68		03	FB	001DA	CALLS	#3, PUTMSG	
14	00000000G	EF	E9	001DD	BLBC	BRNOOB+50, 26\$	0744
00000000G	EF	02	90	001E4	MOVB	#2, IOB\$+44	
		59	DD	001EB	PUSHL	R9	
		7E	D4	001ED	CLRL	-(SP)	
	00000000G	EF	9F	001EF	PUSHAB	IOB\$	
6A		03	FB	001F5	CALLS	#3, XPOS\$CLOSE	
14	00000000G	EF	E9	001F8	BLBC	TTEIOB+50, 27\$	0745
00000000G	EF	02	90	001FF	MOVB	#2, IOB\$+44	
		59	DD	00206	PUSHL	R9	
		7E	D4	00208	CLRL	-(SP)	
	00000000G	EF	9F	0020A	PUSHAB	IOB\$	
6A		03	FB	00210	CALLS	#3, XPOS\$CLOSE	
14	00000000G	EF	E9	00213	BLBC	TTIOB+50, 28\$	0746
00000000G	EF	02	90	0021A	MOVB	#2, IOB\$+44	
		59	DD	00221	PUSHL	R9	
		7E	D4	00223	CLRL	-(SP)	
	00000000G	EF	9F	00225	PUSHAB	IOB\$	
6A		03	FB	0022B	CALLS	#3, XPOS\$CLOSE	
14	00000000G	EF	E9	0022E	BLBC	TTIOB+50, 29\$	0747
00000000G	EF	02	90	00235	MOVB	#2, IOB\$+44	
		59	DD	0023C	PUSHL	R9	
		7E	D4	0023E	CLRL	-(SP)	
	00000000G	EF	9F	00240	PUSHAB	IOB\$	
6A		03	FB	00246	CALLS	#3, XPOS\$CLOSE	
14	00000000G	EF	E9	00249	BLBC	TSIOB+50, 30\$	0748
00000000G	EF	02	90	00250	MOVB	#2, IOB\$+44	
		59	DD	00257	PUSHL	R9	
		7E	D4	00259	CLRL	-(SP)	
	00000000G	EF	9F	0025B	PUSHAB	IOB\$	
6A		03	FB	00261	CALLS	#3, XPOS\$CLOSE	
		04	00264	30\$:	RET		0783

; Routine Size: 613 bytes, Routine Base: \$CODE\$ + 0000

: 657 0784 1
: 658 0785 1 END
: 659 0786 0 ELUDOM

! End of module.

PSECT SUMMARY

Name	Bytes	Attributes
------	-------	------------

RTERM
V04-000

RUNOFF termination and cleanup
RTERM - RUNOFF termination

I 14
16-Sep-1984 01:41:18
14-Sep-1984 13:07:58

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]RTERM.BLI;1 (4) Page 17

; \$CODE\$ 613 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
;\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	81	13	252	00:00.2
;\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	47	3	86	00:00.3

COMMAND QUALIFIERS

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

; Size: 613 code + 0 data bytes
; Run Time: 00:15.0
; Elapsed Time: 00:36.5
; Lines/CPU Min: 3148
; Lexemes/CPU-Min: 28445
; Memory Used: 189 pages
; Compilation Complete

0348

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