


```

MM      MM      SSSSSSSS  GGGGGGGG  TTTTTTTTTT  XX      XX  TTTTTTTTTT
MM      MM      SSSSSSSS  GGGGGGGG  TTTTTTTTTT  XX      XX  TTTTTTTTTT
MMMM    MMMM    SS        GG          TT          XX      XX  TT
MMMM    MMMM    SS        GG          TT          XX      XX  TT
MM      MM      SS        GG          TT          XX      XX  TT
MM      MM      SS        GG          TT          XX      XX  TT
MM      MM      SSSSSS    GG          TT          XX      XX  TT
MM      MM      SSSSSS    GG          TT          XX      XX  TT
MM      MM      SS        GG  GGGGGG   TT          XX      XX  TT
MM      MM      SS        GG  GGGGGG   TT          XX      XX  TT
MM      MM      SS        GG          GG     TT          XX      XX  TT
MM      MM      SS        GG          GG     TT          XX      XX  TT
MM      MM      SSSSSSSS  GGGGGG    TT          XX      XX  TT
MM      MM      SSSSSSSS  GGGGGG    TT          XX      XX  TT

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RRRRRRR  EEEEEEEEE  QQQQQQ
RRRRRRR  EEEEEEEEE  QQQQQQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RRRRRRR  EEEEEEEEE  QQ      QQ
RRRRRRR  EEEEEEEEE  QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EEEEEEEEE  QQQQ  QQ
RR      RR  EEEEEEEEE  QQQQ  QQ

```

Version: 'V04-000'

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++ FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Contains a complete list of error messages and other messages that are used by RUNOFF. They are in a macro form so that they can be parsed twice: once to build the GLOBAL LITERAL table of error names and the second time to build the UPLIT containing the text of each message.

It also contains all necessary macros except the GENERATE macro, which is defined as it is used within RNFERM.BLI.

GENERATE macro paramters are:

<severity>, <error code>, <error text>, <concise text>

Defines all messages for DSR and DSRPLUS.

MODULE REQUIRING IN THIS FILE:

RNFERM.BLI

ENVIRONMENT: Transportable BLISS

AUTHOR: Ray Marshall CREATION DATE 24-Jul-1981

V

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E

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C

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MAC

MODIFIED BY:

043 KFA00043 Ken Alden 17-Oct-1983
Reworded IPF.

042 KFA00042 Ken Alden 07-Oct-1983
Corrected spelling errors.

041 KFA00041 Ken Alden 06-Oct-1983
Added IPF for the /PAGES qualifier.

040 KFA00040 Ken Alden 07-Sep-1983
Altered text on CJL to more closely reflect the actual error.

039 REM00039 Ray Marshall 26-Jul-1983
Allowed MDC & MDI for all DSRPLUS implementations.

038 KFA00038 Ken Alden 15-Jul-1983
Added MDC, MDI for multiple do contents, index.

037 KFA00037 Ken Alden 14-Jul-1983
Removed CR3. (CR1 will be used instead)

036 KFA00036 Ken Alden 13-Jul-1983
Took the period off NCN,CR1,CR2.
Changed EOT to EOT.
Changes in eliminating hyphen from FCR & CND.
PC6 renamed to CRU informational --> warning.
CRU named to CRC.
Wording changes to CR!, CR2.

035 REM00035 Ray Marshall 27-Jun-1983
Add RNFC6 to report the number of unresolved cross-ref's.

034 KAD00034 Keith Dawson 13-Jun-1983
Removed DTL, DVR, PSI messages to support new behavior of /DOWN (in TOPPAG).

033 KAD00033 Keith Dawson 9-Jun-1983
Changed wording of CR1 -- no '/INTER'.

032 KAD00032 Keith Dawson 6-Jun-1983
Fixed glitches in alpha order (DRN, NED messages).

031 KAD00031 Keith Dawson 27-May-1983
Add CRO, CR3 termination messages for oscillating cross-references in the pathological case. Cleaned up and made consistent some messages from .SET COUNTER/TEXTS and .REF when input name is in error: (new) DRN, BRN; (deleted) RMS; (changed wording) NRN.

030 KAD00030 Keith Dawson 9-May-1983
Remove support for .DX, .PX. This involves redefining messages DX1 and DX2, and removing XFL. Also, removed DWF (Date won't fit on subtitle), no longer used.

- 029 KFA00029 Ken Alden 5-May-1983
For DSRPLUS, added CUI, IUI, TUI for spawned utilities info.
Added " " before RESTORE in MSR.
FAD, NTF, NCN, AMC, CNE, EOT
- 028 KAD00028 Keith Dawson 21-Apr-1983
Moved NCS message (was out of order). Added IDD message,
Invalid display descriptor.
- 027 KAD00027 Keith Dawson 14-Apr-1983
Deleted NIB, PND, RND errors -- not used.
- 026 KAD00026 Keith Dawson 13-Apr-1983
Changed wording of RNFNCD message.
- 025 KAD00025 Keith Dawson 11-Apr-1983
Added error messages for \$\$entities, cross-referencing, and
termination processing:
BCR, CND, CRU, CR1, CR2, CVM, FCR, IIB, IVB, NCD, NIB, NPN,
NRN, PC2, PC3, PC4, PC5, PNA, PND, PNV, RMS, RND
- 024 KFA00024 Ken Alden 21-Mar-1983
Removed IPF, ITN.
- 023 KAD00023 Keith Dawson 20-Mar-1983
In service to removing LN01 conditionals and all references
to .BIX and .BTC files, removed COT and COX error messages.
Deleted unused error messages: ITS LOM MD1 NFS SPO VVZ
- 022 RER00022 Ron Randall 19-Mar-1983
Added several error messages related to topnotes:
CRT CTN CWT ETD IIT ITN TLE
- 021 KFA00021 Ken Alden 18-Mar-1983
Made NCS, TMS, and WFR visible to DSR.
- 020 KAD00020 Keith Dawson 07-Mar-1983
Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.


```

        generate ('W', 'CRO',
        'Oscillating cross references: cannot complete automatic processing', ''),
%FI
%IF %BLISS(BLISS32) %THEN
        generate ('F', 'CRP', 'Can''t recognize page on /PAGES qualifier', ''),
%ELSE
        generate ('F', 'CRP', 'Can''t recognize page on /PAGES switch', ''),
%FI
%IF DSRPLUS %THEN
        generate ('E', 'CRT', 'Can''t read back saved topnote', ''),
        generate ('W', 'CRU', '%N unresolved cross referenceXX encountered', '%N'),
        generate ('I', 'CR1',
        'Run DSRPLUS/DÉBUG=CROSS to see which one(s) are affected', ''),
        generate ('I', 'CR2',
        'Or rerun DSRPLUS/CROSS again if you need cross references correct', ''),
        generate ('E', 'CTN', 'Can''t open topnote work file ''%S'', '%S)'),
        generate ('I', 'CUI', 'CONTENTS utility completed %S', ''),
        generate ('E', 'CVM',
        'CONTENTS version mismatch in input .BRN file ''%A'', ''),
%FI
        generate ('W', 'CWF', 'Can''t write footnote file (%N)', '(%N)'),
%IF DSRPLUS %THEN
        generate ('E', 'CWT', 'Can''t write topnote file (%N)', '(%N)'),
        generate ('E', 'DCF',
        'Delimiter character ''%S'' in use as a flag; command ignored', '%S'),
%FI
        generate ('W', 'DNS', '.NO SPACE illegal in this context', ''),
%IF DSRPLUS %THEN
        generate ('W', 'DRN', 'Duplicate Referencepoint name: ''%S'', '%S)'),
%FI
        generate ('W', 'DVN', 'Duplicate variable name: ''%S'', '%S)'),
%IF DSRPLUS %THEN
        generate ('W', 'DX1',
        'In-core indexing (.PRINT INDEX) is no longer supported.', ''),
        generate ('W', 'DX2',
        'Instead, specify DSRPLUS/INTERMEDIATE and .REQUIRE ''file.RNX'' here.', ''),
%ELSE
        generate ('W', 'DX1',
        'In-core indexing (.DO INDEX/.PRINT INDEX) is no longer supported.', ''),
        generate ('W', 'DX2',
        'Instead, specify RUNOFF/INTERMEDIATE and .REQUIRE ''file.RNX'' here.', ''),
%FI
        generate ('W', 'EFD', '.END FOOTNOTE doesn''t terminate .FOOTNOTE', ''),
        generate ('W', 'ELD', '.END LITERAL doesn''t follow .LITERAL', ''),
%IF DSRPLUS %THEN
        generate ('W', 'EOT', 'Error opening specified .TBL file', ''),
%FI
%IF DSRPLUS %THEN
        generate ('I', 'ERD',

```

```

      'DSRPLUS Version %V: %N diagnostic message%X reported', ''),
%ELSE
  generate ('I', 'ERD', 'DIGITAL Standard Runoff Version %V: %N diagnostic message%X reported', ''),
%FI
%IF NOT %BLISS(BLISS16) %THEN
  generate ('I', 'ERR', 'Illegal message: RNFERR', ''),
%FI
%IF DSRPLUS %THEN
  generate ('W', 'ESF', 'Too many subindex flags in SORT string', ''),
  generate ('E', 'ETD', '.END TOPNOTE doesn't terminate .TOPNOTE', ''),
%FI

  generate ('W', 'EVL', 'Too many variables: %S', %S),
  generate ('W', 'FAB', 'File aborted', ''),
%IF DSRPLUS %THEN
  generate ('E', 'FAD', 'Found a delimiter -- not allowed in this context %S', %S),
%FI
  generate ('E', 'FAU', 'Flag character %S already in use', %S),
%IF DSRPLUS %THEN
  generate ('I', 'FCR',
    'This Referencepoint changed a forward cross reference', ''),
%FI
  generate ('W', 'FEL', '%S flag at end of line ignored', ''),
  generate ('W', 'FNA', 'Flag not allowed in this context: %S', %S),
  generate ('W', 'FWF', 'Footnotes won't fit on page', ''),

  generate ('I', 'GFC',
    'Given footnote count incorrect. Correct value is %N', %N),
  generate ('W', 'IBO', 'Input buffer overflow: %S', %S),
  generate ('E', 'IDD', 'Invalid display descriptor: %S', %S),
  generate ('W', 'IFT', 'Illegal in footnote: %S', %S),
%IF DSRPLUS %THEN
  generate ('E', 'IIB', 'Invalid format in input .BRN file %A', ''),
%FI
  generate ('W', 'IIF', '^%S ignored', ^%S),

%IF DSRPLUS %THEN
  generate ('E', 'IIT', 'Illegal command in topnote: %S', %S),
  generate ('E', 'IKW', 'Invalid attribute keyword %S', %S),
%FI

  generate ('W', 'ILC', 'Illegal command: %S', %S),
  generate ('E', 'ILE', 'Internal logic error(%S)', %S),
  generate ('W', 'INI', 'Improperly nested: %S', %S),
  generate ('W', 'INM', 'Illegal number value: %S', %S),
  generate ('W', 'IPF',
    'Document does not contain specified page(s)', ''),
  generate ('W', 'ITC', 'Index entry too complicated or long', ''),
  generate ('W', 'ITD', '.IF commands nested too deeply: %S', %S),

%IF DSRPLUS %THEN
  generate ('I', 'IUI', 'INDEX utility completed %S', ''),
  generate ('E', 'IVB', 'Invalid version in input .BRN file %A', ''),
%FI

```



```

%IF %BLISS(BLISS32) %THEN
%ELSE
  generate ('F', 'IVS', 'Illegal /VARIANT qualifier', ''),
  generate ('F', 'IVS', 'Illegal /VARIANT switch', ''),
%FI

  generate ('W', 'JEC', 'Unexpected text at end of command: "%S"', '%S'),
  generate ('W', 'LDE', 'Literal doesn't end with .END LITERAL: "%S"', '%S'),
  generate ('I', 'LOC', 'on output page %P; on input line %C of page %I of file "%F"', ''),
  generate ('W', 'LTC', 'Line too complicated: "%S"', '%S'),

%IF DSRPLUS %THEN
  generate ('E', 'MDC', 'Only one DO CONTENTS command allowed -- this one ignored', ''),
  generate ('E', 'MDI', 'Only one .DO INDEX command allowed -- this one ignored', ''),
%FI

  generate ('W', 'MEI', 'Missing at least one .ENDIF command', ''),
  generate ('W', 'MFN', 'Number illegal or ill-formed: "%S"', '%S'),
  generate ('W', 'MFS', 'Missing or improperly delimited file spec: "%S"', '%S'),

%IF DSRPLUS %THEN
%FI
  generate ('E', 'MMD', 'Mismatched delimiters; command ignored', '%S'),

  generate ('W', 'MNL', 'Missing number or letter: "%S"', '%S'),
  generate ('W', 'MQS', 'Missing or improperly delimited quoted string: "%S"', '%S'),
  generate ('W', 'MRC', 'Another %N crossed margin or bad right indent attempt%X detected and accumulated. Now being reported'),
  generate ('W', 'MRG', 'Margins crossed, or attempted indent too far right', ''),
  generate ('W', 'MRS', 'Missing one or more .RESTORE command(s) at end of file', ''),

%IF DSRPLUS %THEN
%FI
  generate ('E', 'NCD', 'Matching closing delimiter not found', ''),
  generate ('E', 'NCN', 'Negative Counters are not allowed', ''),

  generate ('W', 'NCS', 'No corresponding SAVE for attempted RESTORE', ''),

%IF DSRPLUS %THEN
%FI
  generate ('W', 'NDC', 'No "%S" number currently defined', ''),
  generate ('W', 'NDR', 'No "%S" number defined at given Referencepoint', ''),
  generate ('I', 'NED', 'DSRPLUS Version %V: No errors detected', ''),

  generate ('W', 'NIA', 'Negative indent attempted', ''),
  generate ('W', 'NIC', 'Another %N negative indent%X detected and accumulated. Now being reported', ''),

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SLIT

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%IF DSRPLUS %THEN
    generate ('E', 'NNA', 'Negative number not allowed: '%S'', '%S'),
    generate ('E', 'NPN', 'Symbol '$$%S' may not have parameter name', ''),
    generate ('E', 'NRN', 'No Referencepoint name found', ''),
%ELSE
    generate ('I', 'NED',
        'DIGITAL Standard Runoff Version %V: No errors detected', ''),
%FI

    generate ('W', 'NSF',
        '.END LIST/NOTE not in same file as .LIST/.NOTE: '%S'', '%S'),

%IF DSRPLUS %THEN
    generate ('E', 'NSP', 'SORT= not allowed with PERMUTE', ''),
    generate ('E', 'NSS', 'No string specified on %S', '%S'),
%FI

    generate ('W', 'NTD', 'Files nested too deep: '%S'', '%S'),

%IF DSRPLUS %THEN
    generate ('E', 'NTF', 'No Counter or Textstring name found', ''),
    generate ('E', 'NVS', 'No value specified on keyword', ''),
    generate ('E', 'OAG',
        'Opposite attribute already given, '%S' ignored', '%S'),
    generate ('I', 'OFT',
        'File type ".RNO" not found. Processing file "%F"', 'Using %F'),
%FI

    generate ('I', 'PC1', 'Illegal message: RNFPC1', ''),
    generate ('I', 'PC2', '%N index record%X written to "%B"', '%N in %B'),
    generate ('I', 'PC3',
        '%N table-of-contents record%X written to "%B"', '%N in %B'),
%IF DSRPLUS %THEN
    generate ('I', 'PC4', '%N cross-reference record%X written to "%B"', '%N in %B'),
    generate ('I', 'PC5', '%N cross-reference record%X read from "%A"', '%N in %A'),
%FI

    generate ('I', 'PCT', '%N page%X written to "%O"', '%N in %O'),
%IF DSRPLUS %THEN
    generate ('E', 'PNA',
        'Parameter name not allowed on Counter or Textstring', ''),
    generate ('E', 'PNV',
        'Parameter name '%S' not valid in this context', '%S'),
%FI

    generate ('W', 'PUF', 'Page number won't fit on title', ''),
    generate ('W', 'QST', 'Quoted string too long: '%S'', '%S'),

    generate ('W', 'RTL', 'Input record too long: truncated '%S'', '%S'),
    generate ('W', 'SKC',
        '.ENDIF/.ELSE not in same file as .IF/.IFNOT: '%S'', '%S'),

    generate ('W', 'SSR', 'Restricted character "^\" (octal 34) encountered in text, ignored', ''),
    generate ('W', 'SID',
        'Too many nested .NOTEs and/or .LISTs: '%S'', '%S'),
    generate ('I', 'STR', '%S', ''),
    generate ('W', 'TAR',

```

```

      'No text allowed after .REQUIRE command: '%S'', '%S''),
generate ('W', 'TFE', 'Too few end commands', ''),
:IF DSRPLUS XTHEN
generate ('E', 'TLE', 'Topnote length exceeds total page size', ''),
generate ('E', 'TMA', 'Too many attributes; '%S'' ignored', '%S'),
XFI

generate ('W', 'TMF',
'Too many footnotes, excess footnotes merged', ''),
:IF %BLISS(BLISS32) XTHEN
generate ('F', 'TMP', 'Too many page ranges on /PAGES qualifier', ''),
XELSE
generate ('F', 'TMP', 'Too many page ranges on /PAGES switch', ''),
XFI

generate ('W', 'TMS',
'Too many saves; corresponding .SAVE and .RESTORE ignored', ''),
generate ('W', 'TMT',
'Too many tab settings; excess ignored: '%S'', '%S''),
generate ('F', 'TMV', 'Too many /VARIANTS', ''),
generate ('W', 'TTL', 'Text too long: '%S'', '%S'),
XIF DSRPLUS XTHEN
generate ('I', 'TUI', 'TABLE utility completed %S', ''),
generate ('W', 'UDC', 'Undefined Counter or Textstring: '%S'', '%S'),
XFI

generate ('W', 'UDS', 'Undefined symbol: '%S'' '%S'),
generate ('W', 'UME', 'Unmatched end command: '%S'', '%S'),
generate ('W', 'URE', 'Unrecoverable error processing record %C on page %I of input file '%F'', 'rcd %C, pg %I, in %F'),
generate ('W', 'URR', 'Unrecognized request: '%N'', '%N'),
generate ('W', 'WFR',
'.RESTORE not in same file as .SAVE/.SAVEALL: '%S'', '%S')
:IF NOT %BLISS(BLISS16) XTHEN
generate ('W', 'XFL', 'Index overflow, results undefined', '')
XFI

X:

```

MSBTTL 'MSGTXT.REQ -- Other macro definitions'

TOPS20_SEVERITY_CODE translates the VMS error message severity code to the codes historically used by DSR. These resulting codes are compatible with the batch processor on TOPS-20. They are also used in the PDP-11 for compatibility with the original DSR codes.

MACRO

tops20_severity_code (vms_severity_code) =

```

%IF vms_severity_code EQL 'W' %THEN '%'      ! Warning      ==> '%'
%ELSE
%IF vms_severity_code EQL 'S' %THEN ' '      ! Success        ==> ' '
%ELSE
%IF vms_severity_code EQL 'E' %THEN '%'      ! Error          ==> '%'
%ELSE
%IF vms_severity_code EQL 'I' %THEN ' '      ! Information     ==> ' '
%ELSE
%IF vms_severity_code EQL 'F' %THEN '?'      ! Fatal          ==> '?'
%ELSE
%IF vms_severity_code EQL '' %THEN ''        ! Null           ==> ''
%ELSE
%IF vms_severity_code EQL '?' %THEN '?'      ! Undefined      ==> '?'
%FI %FI %FI %FI %FI %FI

```

%;

PDP11_MESSAGE_TEXT takes the severity code, and the two text strings and determines which string to return. This is used in the PDP-11 environment where we do not wish to compile in the full message because of memory (space) constraints. Therefore, when a concise message exists for an error message, it is used; all other messages are preserved in full.

MACRO

pdp11_message_text (sev, text, ctext) =

```

%IF %CHARCOUNT (SEV) EQL 0
%THEN
    text
%ELSE
    ctext
%FI
%;

```

The next macro () is used to build the text string for any and all messages. It sets up different formats for the different systems.

Format of VMS messages:

%<facility>-<severity>-<identification> <text>

Where:

%IF DSRPLUS %THEN

```

! Facility code is DSRPLUS.
%ELSE Facility code is RUNOFF.
%FI

Severity codes used are as follows:
    I = Informational
    E = Error
    F = Fatal
    S = Success
    W = Warning
    ? = Message is never invoked!

Identification is a unique three letter code.

MACRO
    error_string (sev, code, text, ctext)=

%IF %BLISS(BLISS16) %THEN
%IF DSR16_RSX %THEN
%IF %CHARCOUNT (sev) NEQ 0 %THEN
    'DSR -- ', tops20_severity_code (sev), code, ' ',
%FI

    pdp11_message_text (sev, text, ctext)
%ELSE

%IF DSR16_RSTS %THEN
%IF %CHARCOUNT(SEV) NEQ 0 %THEN
    'Z', code, ' - ',
%FI

    pdp11_message_text (sev, text, ctext)
%ELSE

%IF %CHARCOUNT(SEV) NEQ 0 %THEN
    tops20_severity_code (sev), 'RNF', code, ' ',
%FI

    pdp11_message_text (sev, text, ctext)
%FI %FI %FI

%IF %BLISS(BLISS32) %THEN
    text
%FI

%IF %BLISS(BLISS36) %THEN
%IF sev NEQ 'I' %THEN
    tops20_severity_code (sev), 'RNF', code, ' ',
%ELSE
    ! For TOPS-10 & TOPS-20:
    ! All messages except informationals:
    ! Informational messages:
%FI

%IF code EQL 'GFC' %THEN
    ! RNFGFC will identif, itself
    tops20_severity_code (sev), 'RNF', code, ' ',
%ELSE

```

All other informationals will not identify themselves. With the exception of those name in the next %IF, they will be prefixed with a <TAB> character:

%IF (code NEQ 'PCT') AND (code NEQ 'ERD') AND (code NEQ 'NED') AND (code NEQ 'PC2') AND (code NEQ 'PC3')

%IF DSRPLUS %THEN AND (code NEQ 'PC4') AND (code NEQ 'PC5')

%FI

%THEN

%FI %FI %FI

text

%FI

%;

The macro CSTRING will take as many parameters as needed, concatenate them, and generate a counted string as a result.

MACRO cstring [] = %STRING (%CHAR (%CHARCOUNT (%REMAINING)), %REMAINING) %;

! End of MSGTXT.REQ

Vertical line of asterisks on the right margin.

