







Renamed LN01 italic/underline and portrait/landscape bits,  
in order to reflect the default values.  
Got rid of RNOSV\_FLIP bit, in favor of (.gca\_op\_dev  
EQL op\_dev\_flip).

008 KAD00008 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
\$FIELD \$rno\$cmd\_fields = SET

! File specification string descriptors.

```

RNO$t_INPUT      = [$DESCRIPTOR(FIXED)] ,      ! Input
RNO$t_OUTPUT     = [$DESCRIPTOR(FIXED)] ,      ! Output
RNO$t_INTERMEDIATE = [$DESCRIPTOR(FIXED)] ,      ! Binary intermediate .BRN type file
RNO$t_DROP_REC   = [$DESCRIPTOR(FIXED)] ,      ! Drop-record file

```

! Miscellaneous other string descriptors.

```

rno$t_program_name = [$DESCRIPTOR(FIXED)] ,      ! Name of program
rno$t_program_filename = [$DESCRIPTOR(FIXED)] ,  ! Filename of program

rno$t_pages        = [$DESCRIPTOR(FIXED)] ,      ! Page range string descriptor:
$OVERLAY( $SUB_FIELD( rno$t_pages, STR$h_LENGTH ) )
rno$h_pages        = [$BYTES(2)] ,              ! length of page range string
$OVERLAY( $SUB_FIELD( rno$t_pages, STR$a_POINTER ) )
rno$a_pages        = [$POINTER] ,              ! pointer to page range string
$CONTINUE

```

```

rno$t_variant      = [$DESCRIPTOR(FIXED)] ,      ! Variant string descriptor:
$OVERLAY( $SUB_FIELD( rno$t_variant, STR$h_LENGTH ) )
rno$h_variant      = [$BYTES(2)] ,              ! length of variant string
$OVERLAY( $SUB_FIELD( rno$t_variant, STR$a_POINTER ) )
rno$a_variant      = [$POINTER] ,              ! pointer to variant string
$CONTINUE

```

```

rno$a_datetime     = [$BYTES(12)] ,             ! System date and time
$OVERLAY( rno$a_datetime )
rno$h_year         = [$BYTES(2)] ,
rno$h_month        = [$BYTES(2)] ,
rno$h_monthday     = [$BYTES(2)] ,
rno$h_hours        = [$BYTES(2)] ,
rno$h_minutes      = [$BYTES(2)] ,
rno$h_seconds      = [$BYTES(2)] ,
$CONTINUE

```

! Three words of switch option bits:

```

rno$v_options      = [$BYTES(8)] ,             ! Command option indicators:
$OVERLAY( rno$v_options )
rno$v_option1      = [$BYTES(2)] ,
rno$v_option2      = [$BYTES(2)] ,
rno$v_option3      = [$BYTES(2)] ,

```

RUN

XIF  
LIT  
XFI

LIT

XIF  
LIT  
XFILIT  
LIT

! E

```

rno$V_option4      = [$BYTES(2)] ,
    $OVERLAY ( rno$V_option1 )

rno$V_2_automatic  = [$BITS(2)] ,      ! Carries state of /AUTOMATIC to DOOPTS
    $OVERLAY ( rno$V_2_automatic )
rno$V_automatic    = [$BIT] ,          ! execute multiple passes and utilities as needed
rno$V_s_automatic  = [$BIT] ,          ! /AUTOMATIC explicitly specified

rno$V_2_backspace  = [$BITS(2)] ,      ! backspace on same line
    $OVERLAY ( rno$V_2_backspace )
rno$V_backspace    = [$BIT] ,          ! backspace on same line
rno$V_s_backspace  = [$BIT] ,          ! /BACKSPACE explicitly specified

rno$V_2_change     = [$BITS(2)] ,      ! change bars requested
    $OVERLAY ( rno$V_2_change )
rno$V_change       = [$BIT] ,          ! change bars allowed
rno$V_s_change     = [$BIT] ,          ! /CHANGE explicitly specified

rno$V_chng_char    = [$BIT] ,          ! change bar character specified (see below)

rno$V_2_cross_ref  = [$BITS(2)] ,      ! Carries state of /CROSSREFERENCE to DOOPTS
    $OVERLAY ( rno$V_2_cross_ref )
rno$V_cross_ref    = [$BIT] ,          ! translate cross references
rno$V_s_cross_ref  = [$BIT] ,          ! /CROSS_REFERENCE explicitly specified

rno$V_deb_cond     = [$BIT] ,          ! go through all paths of .IFs and output draft flags
rno$V_deb_cont     = [$BIT] ,          ! echo toc entries in output file
rno$V_deb_cros     = [$BIT] ,          ! echo .REFs & $FOOs in output file
rno$V_deb_files    = [$BIT] ,          ! put file names in the output.
rno$V_deb_index    = [$BIT] ,          ! echo index entries in output file
rno$V_deb_save     = [$BIT] ,          ! echo .SAVEs & .RESs in output file

(1 free bit in OPTION1)

    $OVERLAY ( rno$V_option2 )

rno$V_2_intermediate = [$BITS(2)] ,      ! Carries state of /INTERMEDIATE to DOOPTS
    $OVERLAY ( rno$V_2_intermediate )
rno$V_intermediate   = [$BIT] ,          ! a .BRN type file will be generated
rno$V_s_intermediate = [$BIT] ,          ! /INTERMEDIATE explicitly specified

rno$V_2_log         = [$BITS(2)] ,      ! print final statistics
    $OVERLAY ( rno$V_2_log )
rno$V_log           = [$BIT] ,          ! print final statistics
rno$V_s_log         = [$BIT] ,          ! /LOG explicitly specified

rno$V_msg_out       = [$BIT] ,          ! put DSR messages in the output file
rno$V_msg_user      = [$BIT] ,          ! send DSR messages to the user

rno$V_4_out_format  = [$BITS(4)] ,      ! defines output formats

rno$V_2_output      = [$BITS(2)] ,      ! output file requested
    $OVERLAY ( rno$V_2_output )
rno$V_output        = [$BIT] ,          ! output file requested
rno$V_s_output      = [$BIT] ,          ! /OUTPUT explicitly specified

```

```

rno$y_2_overprint = [$BITS(2)] . overprint on same line
$OVERLAY ( rno$y_2_overprint )
rno$y_overprint = [$BIT] ; ! overprint on same line
rno$y_s_overprint = [$BIT] ; ! /OVERPRINT explicitly specified

rno$y_2_pause = [$BITS(2)] . pause at page boundary requested
$OVERLAY ( rno$y_2_pause )
rno$y_pause = [$BIT] ; ! pause at page boundary requested
rno$y_s_pause = [$BIT] ; ! /PAUSE explicitly specified

(NO free bits in OPTION2)

$OVERLAY ( rno$y_option3 )

rno$y_quick = [$BIT] . ! do quick processing (for contents, index)

rno$y_2_sequence = [$BITS(2)] . ! output sequence numbers requested
$OVERLAY ( rno$y_2_sequence )
rno$y_sequence = [$BIT] ; ! output sequence numbers requested
rno$y_s_sequence = [$BIT] ; ! /SEQUENCE explicitly specified

rno$y_2_simulate = [$BITS(2)] . ! simulate printer form feeds
$OVERLAY ( rno$y_2_simulate )
rno$y_simulate = [$BIT] ; ! simulate printer form feeds
rno$y_s_simulate = [$BIT] ; ! /SIMULATE explicitly specified

rno$y_2_underline = [$BITS(2)] . ! underlining requested
$OVERLAY ( rno$y_2_underline )
rno$y_underline = [$BIT] ; ! underlining requested: (default)
rno$y_s_underline = [$BIT] ; ! /UNDERLINE explicitly specified

rno$y_2_und_separ = [$BITS(2)] . ! underlining on separate line
$OVERLAY ( rno$y_2_und_separ )
rno$y_und_separ = [$BIT] ; ! underlining on separate line
rno$y_s_und_separ = [$BIT] ; ! /SEPARATE_UNDERLINE explicitly specified

rno$y_2_und_nosp = [$BITS(2)] . ! underlining non-spacing inline
$OVERLAY ( rno$y_2_und_nosp )
rno$y_und_nosp = [$BIT] ; ! non-spacing inline
rno$y_s_und_nosp = [$BIT] ; ! /NONSPACING explicitly specified

rno$y_und_char = [$BIT] . ! character specified (see below)

```

(4 free bits in OPTION3)

```

$OVERLAY ( rno$y_option4 )

rno$y_ln01_ital_under = [$BIT] .
rno$y_ln01_port_land = [$BIT] .
rno$y_ln01_header = [$BIT] .
rno$y_ln01_load = [$BIT] .

rno$y_s_down = [$BIT] ; ! /DOWN explicitly specified
rno$y_s_right = [$BIT] ; ! /RIGHT explicitly specified

! Options for LN01 output:
! set = italics, clear = underlining
! set = portrait, clear = landscape
! set = if header wanted in O/P file
! set = loading of fonts is desired

```

(11 free bits in OPTION4)

\$CONTINUE

```
rno$c_change      = [$BYTE] ;           ! Change bar character (RNOSV_CHNG_CHAR set)
rno$c_underline   = [$BYTE] ;           ! Underline character (RNOSV_UND_CHAR set)

rno$h_bold        = [$SHORT_INTEGER] ;  ! Bolding overprint count
rno$h_dbg1        = [$SHORT_INTEGER] ;  ! Debug flags, 1st word
rno$h_dbg2        = [$SHORT_INTEGER] ;  ! Debug flags, 2nd word
rno$h_down        = [$SHORT_INTEGER] ;  ! Down shift count (number of lines)
rno$h_right       = [$SHORT_INTEGER] ;  ! Right shift count (number of characters)
rno$h_form_size   = [$SHORT_INTEGER] ;  ! Form size (number of lines)
```

TES;

```
LITERAL rno$k_cmd_len = $FIELD_SET_SIZE ;           ! Length of RUNOFF command block
```

MACRO

```
$rno_cmd =
  BLOCK [ rno$k_cmd_len ] FIELD ( $rno$cmd_fields )
%;
```

! End of RNOMAC.REQ

