


```

FFFFFFFFF 000000 RRRRRRRR FFFFFFFFFF MM MM TTTTTTTTTT
FFFFFFFFF 000000 RRRRRRRR FFFFFFFFFF MM MM TTTTTTTTTT
FF 00 00 RR RR FF MMMM MMMM TT
FF 00 00 RR RR FF MMMM MMMM TT
FF 00 00 RR RR FF MM MM TT
FF 00 00 RR RR FF MM MM TT
FFFFFFFFF 00 00 RRRRRRRR FFFFFFFF MM MM TT
FFFFFFFFF 00 00 RRRRRRRR FFFFFFFF MM MM TT
FF 00 00 RR RR FF MM MM TT
FF 00 00 RR RR FF MM MM TT
FF 00 00 RR RR FF MM MM TT
FF 00 00 RR RR FF MM MM TT
FF 000000 RR RR FF MM MM TT
FF 000000 RR RR FF MM MM TT

```

```

RRRRRRRR EEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEE QQQQQQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RRRRRRRR EEEEEEEEE QQ QQ
RRRRRRRR EEEEEEEEE QQ QQ
RR RR EE 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

```

File: FORFMT.REQ Edit: JAW1004

↑ This file, FORFMT.REQ, defines symbols for the VAX-11 FORTRAN formatting routines.

```
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Revision History:

```
0-12 - Change name to FORFMT.REQ JBS 14-NOV-78
1-001 - Add copyright notice and change version number JBS 16-NOV-78
1-002 - Add FORTRAN-77 format codes. SBL 09-Feb-1979
1-003 - Remove PRINT statement, for new BLISS compiler. JBS 02-OCT-1979
1-004 - Add V_RC_TYPE_BYTE and V_RC_TYPE_WORD. JAW 10-Aug-1981
```

↑ Define format code byte

```
MACRO
  V_FMT_CODE = 0,0,7,0 %;      ! 7-bit format code
  V_FMT_REPRE = 0,7,1,0 %;    ! Optional representation byte present?
```

```
MACRO
  ↑ Optional format representation byte:
  The following are bits in the optional format representation
  byte. The byte is copied into local BLOCK
  B_FMT_REPRESENT. These flags indicate less
  frequently used sizes of the format code representations.
```

```

V_RC_TYPE = 0,0,2,0 %, | Repeat count type:
                        | 0 = not present, 1 = byte, 2 = word
  V_RC_TYPE_BYTE = 0,0,1,0 %,
  V_RC_TYPE_WORD = 0,1,1,0 %,
V_W_WORD = 0,2,1,0 %, | 0=W field is byte, 1=W field is word.
                        | Bit 3 is reserved to DEC
V_E_VFE = 0,4,1,0 %, | E field is VFE
V_D_VFE = 0,5,1,0 %, | D field is VFE
V_W_VFE = 0,6,1,0 %, | W field is a VFE (ignore V_W_WORD)
V_RC_VFE = 0,7,1,0 %; | Repeat count field is a VFE
                        | ignore V_RC_BYTE and V_RC_WORD)

```

```

+ Define format code symbols which are 2 or 3 characters so it plus comma will fit
  in between logical tabs. One character symbols are prefixed with so
  that they are two character symbols instead (so won't conflict with LOCALS).
-

```

```

LITERAL
ER      = 0,      | 00      | Format syntax error - only from object time format compiler
LP      = 1,      | 01      | ( - Format reversion point
NLP     = 2,      | 02      | n( - Left paren of repeat group
RP      = 3,      | 03      | ) - Right paren of repeat group
EOF     = 4,      | 04      | ) - End of format
SLS     = 5,      | 05      | / - Record separator
DLR     = 6,      | 06      | $ - Dollar sign: terminal I/O
        | do not return to left margin
CLN     = 7,      | 07      | : - Colon: terminate if end of list
        | so no trailing Hollerith printed

S       = 9,      | 09      | S - Restore + optional
SP      = 10,     | 0A      | SP - Force + on
SS      = 11,     | 0B      | SS - Force + off
_P      = 12,     | 0C      | sP - signed scale factor (-128 =< s =< +127).
-T      = 13,     | 0D      | Tn - Tab Set (0 < n =< 32767)
-X      = 14,     | 0E      | nX - Skip n columns (0 < n =< 32767)
-H      = 15,     | 0F      | nHcccc - Hollerith: n chars follow (0 < n =< 32767)
BN      = 16,     | 10      | BN - Blanks are nulls
BZ      = 17,     | 11      | BZ - Blanks are zeroes
TL      = 18,     | 12      | TLc - Tab left c columns
TR      = 19,     | 13      | TRc - Tab right c columns

_Q      = 20,     | 14      | Q - no. of input chars left in record
-A      = 21,     | 15      | nAw - Alpha numeric
        | Minimum I/O list transmitting data code
-L      = 22,     | 16      | nLw - Locial
        | Min. integer
-O      = 23,     | 17      | nOw - Octal
-I      = 24,     | 18      | nIw - Integer
-Z      = 25,     | 19      | nZw - Hexadecimal
XO      = 26,     | 1A      | Ow.m - Extended 0
XI      = 27,     | 1B      | Iw.m - Extended I
XZ      = 28,     | 1C      | Zw.m - Extended Z

```

```

      _MAX_INT = XZ,      ! Max. integer (not counting defaults)
      -F      = 30,      ! 1E      ! nFw.d - Fixed format
      -E      = 31,      ! 1F      ! Min. floating
      -G      = 32,      ! 20      ! nEw.d - Scientific notation format
      -D      = 33,      ! 21      ! nGw.d - General format
      -RE     = 34,      ! 22      ! nDw.d - Double Precision format
      -XG     = 35,      ! 23      ! nEw.dEe - Extended E
      -MAX_FLT = XG,      !          ! nGw.dEe - Extended G
      -MAX_DATA = XG,     !          ! max. floating (not counting default)
                        !          ! Max. data (not counting default)

```

+ Default format codes:

```

      -DA      = 41,      ! 29      ! nA - default A
      -DL      = 42,      ! 2A      ! nL - default L
      -DO      = 43,      ! 2B      ! nO - default O
      -DI      = 44,      ! 2C      ! nI - default I
      -DZ      = 45,      ! 2D      ! nZ - default Z

      -DF      = 50,      ! 32      ! nF - default F
      -DE      = 51,      ! 33      ! nE - default E
      -DG      = 52,      ! 34      ! nG - default G
      -DD      = 53,      ! 35      ! nD - default D

```

+ Note: 0 < n =< 32767 (decimal)
 0 < w =< 65535 (decimal)
 0 =< d =< 255 (decimal)
 0 =< e =< 255 (decimal)

! End of file FORFMT.REQ

