NAME
    banner   -   prepare the requested banner and copy to the indicated
    buffer.

SYNOPSIS
    #include <banner.h>

    banner(bufnam, lnlen, charsiz, banstr)
    char *bufnam;
    int lnlen;
    int charsiz;
    char *banstr;

DESCRIPTION
    Banner prepares the requested banner string, centers it in a line
    of the requested length, and copies it to the specified output
    buffer. Line lengths up to LL_132 (132 character line) are sup-
    ported and two character sizes are supported by this subroutine.
    The supported character sizes are DOT55 (5x5 character matrices)
    and DOT59 (5x9 character matrices).

    The character size DOT55 only supports the upper case alphabetic
    characters A - Z and the numerals 0 - 9. Lower case alphabetic
    characters are mapped to the corresponding upper case character,
    while all other characters except spaces and newlines are
    ignored. The character size DOT59 supports all ASCII characters
    between space (040) and ~ (0176); newlines are also supported.

    If an error is detected, banner returns the value ERR_RTN;   oth-
    erwise, the value NORM_RTN is returned.

    The argument bufnam is the address of a character output buffer
    into which the banner is to be copied. Banner assumes that this
    buffer is large enough to hold the entire banner.   The user
    should be aware that each banner character requires eight bytes
    per line (banner character plus surrounding white space) and
    either five or nine lines depending upon the character size
    selected. These things should be taken into consideration when
    determining the size of the output buffer.

    The argument lnlen identifies the maximum length of the printed
    line.   Line lengths greater than zero and less than or equal to
    LL_132 are permitted.

    The argument charsiz identifies the character size that is to be
    generated.   Two character sizes are presently supported, DOT55
    and DOT59.

    The argument banstr is the address of a string containing the
    banner that is to be generated. This string may contain new-
    lines. Examples of acceptable banner strings are:

```
          "abc"
          "\n\nabc\n\n"
          "\n\nThis is a banner string\n\n"
          "\n\nSPA\n\nANALYSIS\n\nREPORT\n\n"
```

FILES
     /usr/include/banner.h which contains the define variables DOT55,
     DOT59, LL_80, LL_132, ERR_RTN, and NORM_RTN.

LIBRARY
     /lib/libl.a

SEE ALSO
     e_output(3L)

DIAGNOSTICS
     If this subroutine detects an error, an Output Message (OM) is
     generated by one of the standard OM generation subroutines, but
     not printed. The value ERR_RTN is returned to the calling rou-
     tine.   If the calling routine wishes to print the stored OM, it
     may call one of the standard OM outputting subroutines, such as
     e_output(3L).

BUGS