NAME
    datchk -- check data validity

SYNOPSIS
    datchk(nchar,base) int nchar,base;

DESCRIPTION
    This subroutine checks the validity of the data that is passed to
    it in the external variable INPUT. If the data is valid, it is
    returned in the external variable, VALSTR, and the subroutine re-
    turns a 1. The data in VALSTR is right-justified in a field hav-
    ing a specified length, padded on the left with blanks, and ter-
    minated with a null byte. If the data is not valid, appropriate
    error information is returned in the external variables, E_SPCL,
    E_TYPE, E_CODE, E_NUM, and E_MSG, and a 0 is returned by this
    subroutine.

    DATCHK has two arguments, nchar and base. Nchar specifies the
    length of the string in which the validated data is placed. Base
    specifies the base or radix of the input data contained in INPUT.
    These arguments are used to determine the validity of the input
    data. The validity checks made by this program are:

    a. determine if base is between one and eleven, or sixteen,
        or thirty_two (means use base sixteen for a 101 ESS).

    b. determine if INPUT contains more than nchar characters.

    c. determine if INPUT contains a character that is not valid
        for the base specified.

    The global variables used are:
            char *E_SPCL;
            char *E_TYPE;
            char *E_CODE;
            char *E_NUM;
            char *E_MSG;
            char *INPUT;
            char VALSTR[33];

    The error information returned is:
            E_SPCL= "?D";
            E_TYPE= " ";
            E_CODE= "LIB";
            E_NUM=   "002";
            E_MSG=   "INVALID BASE.";   or

            E_SPCL= "?D";
            E_TYPE= " ";
            E_CODE= "LIB";
            E_NUM=   "003";
            E_MSG=   "TOO MANY CHARACTERS IN DATA.";   or

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            E_SPCL=   "?D";
            E_TYPE=   "   ";
            E_CODE=   "LIB";
            E_NUM=    "004";
            E_MSG=    "INVALID CHARACTER IN DATA.";
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LIBRARY
     /lib/lib1.a

SEE ALSO
DIAGNOSTICS
     Value for base must between one and eleven, or sixteen, or
     thirty-two for a 101 ESS.