NAME

ecvt – output conversion

SYNOPSIS

jsr pc,ecvt

jsr pc,fcvt

char *ecvt(value, ndigit, decpt, sign)
double value;
int ndigit, *decpt, *sign;

char *fcvt(value, ndigit, decpt, sign)
...

DESCRIPTION

Ecvt is called with a floating point number in fr0.

On exit, the number has been converted into a string of ascii digits in a buffer pointed to by r0. The number of digits produced is controlled by a global variable *_ndigits*.

Moreover, the position of the decimal point is contained in r2: r2=0 means the d.p. is at the left hand end of the string of digits; r2>0 means the d.p. is within or to the right of the string.

The sign of the number is indicated by r1 (0 for +; 1 for –).

The low order digit has suffered decimal rounding (i. e. may have been carried into).

From C, the *value* is converted and a pointer to a null-terminated string of *ndigit* digits is returned. The position of the decimal point is stored indirectly through *decpt* (negative means to the left of the returned digits). If the sign of the result is negative, the word pointed to by *sign* is non-zero, otherwise it is zero.

Fcvt is identical to *ecvt*, except that the correct digit has had decimal rounding for F-style output of the number of digits specified by *_ndigits*.

SEE ALSO

printf(III)

BUGS