NAME

atof, atoi, atol — convert ASCII to numbers

SYNOPSIS

double atof (nptr)
char *nptr;

atoi (nptr)
char *nptr;

long atoi (nptr)
char *nptr;

DESCRIPTION

These functions convert a string pointed to by *nptr* to floating, integer, and long integer representation respectively. The first unrecognized character ends the string.

Atof converts a string to a floating number. *Nptr* should point to a string containing an optional minus sign followed by a string of digits optionally containing one decimal point, then followed optionally by the letter e, followed by a signed integer.

Atoi and *atol* recognize an optional string of tabs and spaces, an optional '-' and then an unbroken string of digits.

DIAGNOSTICS

There are none; overflow results in a very large number and garbage characters terminate the scan.

BUGS

Atof should accept initial **+**, initial blanks, and **E** for e. Overflow should be signaled.