NAME

expand_number - format a number from human readable form

LIBRARY

System Utilities Library (libutil, -lutil)

SYNOPSIS

#include <libutil.h>

int
expand_number(*const char *buf*, *uint64_t *num*);

DESCRIPTION

The **expand_number**() function parses the *buf* string and stores a unsigned 64-bit quantity at *num*.

The **expand_number**() function is case-insensitive and follows the SI power of two convention.

The suffixes are:

Suffix	Description	Multiplier
K	kilo	1024
M	mega	1048576
G	giga	1073741824
T	tera	1099511627776
P	peta	1125899906842624
E	exa	1152921504606846976

For historical reasons, the **expand_number**() function accepts and ignores a single "B" suffix at the end of the *buf* string. However, the usage of this suffix is discouraged.

RETURN VALUES

Upon successful completion, the value 0 is returned; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

The **expand_number**() function will fail if:

[EINVAL]   The given string contains no digits.

[EINVAL]   An unrecognized suffix was given.

[ERANGE]   Result doesn't fit into 64 bits.

SEE ALSO

humanize_number(3)

HISTORY

The **expand_number**() function first appeared in FreeBSD 6.3.