

NAME

expand_number — format a number from human readable form

LIBRARY

Utility functions from BSD systems (libbsd, -lbsd)

SYNOPSIS

```
#include <bsd/libutil.h>

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

DESCRIPTION

The **expand_number()** function unformats the *buf* string and stores a unsigned 64-bit quantity at address pointed out by the *num* argument.

The **expand_number()** function follows the SI power of two convention.

The prefixes are:

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

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 prefix 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.

