

NAME

xencrypt, xdecrypt, passwd2des – RFS password encryption

SYNOPSIS

```
#include <rpc/des_crypt.h>

void passwd2des(char *passwd, char *key);
int xencrypt(char *secret, char *passwd);
int xdecrypt(char *secret, char *passwd);
```

DESCRIPTION

The function **passwd2des()** takes a character string *passwd* of arbitrary length and fills a character array *key* of length 8. The array *key* is suitable for use as DES key. It has odd parity set in bit 0 of each byte. Both other functions described here use this function to turn their argument *passwd* into a DES key.

The **xencrypt()** function takes the ASCII character string *secret* given in hex, which must have a length that is a multiple of 16, encrypts it using the DES key derived from *passwd* by **passwd2des()**, and outputs the result again in *secret* as a hex string of the same length.

The **xdecrypt()** function performs the converse operation.

RETURN VALUE

The functions **xencrypt()** and **xdecrypt()** return 1 on success and 0 on error.

VERSIONS

These functions are available in glibc since version 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
passwd2des(), xencrypt(), xdecrypt()	Thread safety	MT-Safe

BUGS

The prototypes are missing from the abovementioned include file.

SEE ALSO

[cbc_crypt\(3\)](#)

COLOPHON

This page is part of release 4.16 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.