



## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'xdecrypt.3' command***

### ***\$ man xdecrypt.3***

XCRYPT(3)                      Linux Programmer's Manual                      XCRYPT(3)

#### **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**

WARNING: Do not use these functions in new code. They do not achieve any type of acceptable cryptographic security guarantees.

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 at?

tributes(7).

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?Interface                      ? Attribute   ? Value   ?

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?passwd2des(), xencrypt(), xdecrypt() ? Thread safety ? MT-Safe ?

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## BUGS

The prototypes are missing from the abovementioned include file.

## SEE ALSO

cbc\_crypt(3)

## COLOPHON

This page is part of release 5.10 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/>.

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XCRYPT(3)