Rocky Enterprise Linux 9.2 Manual Pages on command 'rexec.3'

$ man rexec.3

NAME

    rexec, rexec_af - return stream to a remote command

SYNOPSIS

    #include <netdb.h>

    int rexec(char **ahost, int inport, const char *user,

        const char *passwd, const char *cmd, int *fd2p);

    int rexec_af(char **ahost, int inport, const char *user,

        const char *passwd, const char *cmd, int *fd2p,

        sa_family_t af);

    rexec(), rexec_af():

      Since glibc 2.19:

        _DEFAULT_SOURCE

      In glibc up to and including 2.19:

        _BSD_SOURCE

DESCRIPTION

    This interface is obsoleted by rcmd(3).

    The rexec() function looks up the host *ahost using gethostbyname(3), returning -1 if the

    host does not exist. Otherwise, *ahost is set to the standard name of the host. If a

    username and password are both specified, then these are used to authenticate to the for?

    eign host; otherwise the environment and then the .netrc file in user's home directory are

    searched for appropriate information. If all this fails, the user is prompted for the in?

    formation.

The port inport specifies which well-known DARPA Internet port to use for the connection;
the call getservbyname("exec", "tcp") (see getservent(3)) will return a pointer to a
structure that contains the necessary port. The protocol for connection is described in
detail in rexecd(8).

If the connection succeeds, a socket in the Internet domain of type SOCK_STREAM is re?
turned to the caller, and given to the remote command as stdin and stdout.   If fd2p is
nonzero, then an auxiliary channel to a control process will be setup, and a file descrip?
tor for it will be placed in *fd2p. The control process will return diagnostic output
from the command (unit 2) on this channel, and will also accept bytes on this channel as
being UNIX signal numbers, to be forwarded to the process group of the command. The diag?
nostic information returned does not include remote authorization failure, as the sec?
ondary connection is set up after authorization has been verified. If fd2p is 0, then the
stderr (unit 2 of the remote command) will be made the same as the stdout and no provision
is made for sending arbitrary signals to the remote process, although you may be able to
get its attention by using out-of-band data.

rexec_af()

The rexec() function works over IPv4 (AF_INET). By contrast, the rexec_af() function pro?
vides an extra argument, af, that allows the caller to select the protocol. This argument
can be specified as AF_INET, AF_INET6, or AF_UNSPEC (to allow the implementation to select
the protocol).

VERSIONS

The rexec_af() function was added to glibc in version 2.2.

ATTRIBUTES

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

???
?Interface   ? Attribute   ? Value   ?
???
?rexec(), rexec_af() ? Thread safety ? MT-Unsafe ?
???

CONFORMING TO

These functions are not in POSIX.1. The rexec() function first appeared in 4.2BSD, and is
present on the BSDs, Solaris, and many other systems. The rexec_af() function is more re?
cent, and less widespread.

BUGS

The rexec() function sends the unencrypted password across the network.

The underlying service is considered a big security hole and therefore not enabled on many

sites; see rexecd(8) for explanations.

SEE ALSO

rcmd(3), rexecd(8)

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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