Rocky Enterprise Linux 9.2 Manual Pages on command 'epoll_create1.2'

$ man epoll_create1.2

EPOLL_CREATE(2)   Linux Programmer's Manual   EPOLL_CREATE(2)

NAME

    epoll_create, epoll_create1 - open an epoll file descriptor

SYNOPSIS

    #include <sys/epoll.h>

    int epoll_create(int size);

    int epoll_create1(int flags);

DESCRIPTION

    epoll_create() creates a new epoll(7) instance. Since Linux 2.6.8, the size argument is

    ignored, but must be greater than zero; see NOTES.

    epoll_create() returns a file descriptor referring to the new epoll instance.   This file

    descriptor is used for all the subsequent calls to the epoll interface. When no longer

    required, the file descriptor returned by epoll_create() should be closed by using

    close(2).   When all file descriptors referring to an epoll instance have been closed, the

    kernel destroys the instance and releases the associated resources for reuse.

  epoll_create1()

    If flags is 0, then, other than the fact that the obsolete size argument is dropped,

    epoll_create1() is the same as epoll_create(). The following value can be included in

    flags to obtain different behavior:

    EPOLL_CLOEXEC

        Set the close-on-exec (FD_CLOEXEC) flag on the new file descriptor. See the de?

        scription of the O_CLOEXEC flag in open(2) for reasons why this may be useful.

RETURN VALUE

On success, these system calls return a file descriptor (a nonnegative integer). On er‐
ror, -1 is returned, and errno is set to indicate the error.

ERRORS

EINVAL size is not positive.

EINVAL (epoll_create1()) Invalid value specified in flags.

EMFILE The per-user limit on the number of epoll instances imposed   by
/proc/sys/fs/epoll/max_user_instances was encountered.   See epoll(7) for further
details.

EMFILE The per-process limit on the number of open file descriptors has been reached.

ENFILE The system-wide limit on the total number of open files has been reached.

ENOMEM There was insufficient memory to create the kernel object.

VERSIONS

epoll_create() was added to the kernel in version 2.6. Library support is provided in
glibc starting with version 2.3.2.

epoll_create1() was added to the kernel in version 2.6.27. Library support is provided in
glibc starting with version 2.9.

CONFORMING TO

epoll_create() is Linux-specific.

NOTES

In the initial epoll_create() implementation, the size argument informed the kernel of the
number of file descriptors that the caller expected to add to the epoll instance. The
kernel used this information as a hint for the amount of space to initially allocate in
internal data structures describing events. (If necessary, the kernel would allocate more
space if the caller's usage exceeded the hint given in size.) Nowadays, this hint is no
longer required (the kernel dynamically sizes the required data structures without needing
the hint), but size must still be greater than zero, in order to ensure backward compati‐
bility when new epoll applications are run on older kernels.

SEE ALSO

close(2), epoll_ctl(2), epoll_wait(2), epoll(7)

COLOPHON

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project, information about reporting bugs, and the latest version of this page, can be
found at https://www.kernel.org/doc/man-pages/.