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 an epoll "instance", requesting the kernel to allocate an event backing store dimensioned for *size* descriptors. The *size* is not the maximum size of the backing store but just a hint to the kernel about how to dimension internal structures. (Nowadays, *size* is ignored; see NOTES below.)

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 re-use.

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

RETURN VALUE

On success, these system calls return a non-negative file descriptor. On error, −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.

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

ENOMEM
There was insufficient memory to create the kernel object.

CONFORMING TO

epoll_create() is Linux-specific, and was introduced in kernel 2.5.44.

NOTES

Since Linux 2.6.8, the *size* argument is unused. (The kernel dynamically sizes the required data structures without needing this initial hint.)

SEE ALSO

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

COLOPHON

This page is part of release 3.22 of the Linux *man-pages* project. A description of the project, and information about reporting bugs, can be found at http://www.kernel.org/doc/man-pages/.