NAME
>   lseek64 − reposition 64-bit read/write file offset

SYNOPSIS
>   **#define _LARGEFILE64_SOURCE**   /* See feature_test_macros(7) */"
>   **#include <sys/types.h>**
>   **#include <unistd.h>**
>
>   **off64_t lseek64(int** *fd***, off64_t** *offset***, int** *whence***);**

DESCRIPTION
>   The lseek(2) family of functions reposition the offset of the open file associated with the file descriptor *fd* to *offset* bytes relative to the start, current position, or end of the file, when *whence* has the value **SEEK_SET**, **SEEK_CUR**, or **SEEK_END**, respectively.
>
>   For more details, return value, and errors, see lseek(2).
>
>   Four interfaces are available: lseek(2), **lseek64**(), llseek(2), and _llseek(2).

lseek()
>   Prototype:
>
>     ```
>     off_t lseek(int fd, off_t offset, int whence);
>     ```
>
>   lseek(2) uses the type *off_t*. This is a 32-bit signed type on 32-bit architectures, unless one compiles with
>
>     ```
>     #define _FILE_OFFSET_BITS 64
>     ```
>
>   in which case it is a 64-bit signed type.

lseek64()
>   Prototype:
>
>     ```
>     off64_t lseek64(int fd, off64_t offset, int whence);
>     ```
>
>   The library routine **lseek64**() uses a 64-bit type even when *off_t* is a 32-bit type. Its prototype (and the type *off64_t*) is available only when one compiles with
>
>     ```
>     #define _LARGEFILE64_SOURCE
>     ```
>
>   The function **lseek64**() is available since glibc 2.1, and is defined to be an alias for **llseek**().

llseek()
>   Prototype:
>
>     ```
>     loff_t llseek(int fd, loff_t offset, int whence);
>     ```
>
>   The type *loff_t* is a 64-bit signed type. The library routine **llseek**() is available in glibc and works without special defines. However, the glibc headers do not provide a prototype. Users should add the above prototype, or something equivalent, to their own source. When users complained about data loss caused by a miscompilation of e2fsck(8), glibc 2.1.3 added the link-time warning
>
>   "the `llseek´ function may be dangerous; use `lseek64´ instead."
>
>   This makes this function unusable if one desires a warning-free compilation.

_llseek()
>   On 32-bit architectures, this is the system call that is used to implement all of the above functions. The prototype is:
>
>     ```
>     int _llseek(int fd, off_t offset_hi, off_t offset_lo,
>                 loff_t *result, int whence);
>     ```
>
>   For more details, see llseek(2).
>
>   64-bit systems don't need an **_llseek**() system call. Instead, they have an lseek(2) system call that supports 64-bit file offsets.

ATTRIBUTES

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

Interface	Attribute	Value
lseek64()	Thread safety	MT-Safe

SEE ALSO

llseek(2), lseek(2)

COLOPHON

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