https://elixir.bootlin.com/linux/latest/source/include/linux/seq\_file.h

struct [**seq\_operations**](https://elixir.bootlin.com/linux/latest/C/ident/seq_operations);

struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) {

char \*buf;

[**size\_t**](https://elixir.bootlin.com/linux/latest/C/ident/size_t) size;

[**size\_t**](https://elixir.bootlin.com/linux/latest/C/ident/size_t) [**from**](https://elixir.bootlin.com/linux/latest/C/ident/from);

[**size\_t**](https://elixir.bootlin.com/linux/latest/C/ident/size_t) count;

[**size\_t**](https://elixir.bootlin.com/linux/latest/C/ident/size_t) [**pad\_until**](https://elixir.bootlin.com/linux/latest/C/ident/pad_until);

[**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) index;

[**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) [**read\_pos**](https://elixir.bootlin.com/linux/latest/C/ident/read_pos);

struct [**mutex**](https://elixir.bootlin.com/linux/latest/C/ident/mutex) lock;

const struct [**seq\_operations**](https://elixir.bootlin.com/linux/latest/C/ident/seq_operations) \*[**op**](https://elixir.bootlin.com/linux/latest/C/ident/op);

int [**poll\_event**](https://elixir.bootlin.com/linux/latest/C/ident/poll_event);

const struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*[**file**](https://elixir.bootlin.com/linux/latest/C/ident/file);

void \*[**private**](https://elixir.bootlin.com/linux/latest/C/ident/private);

};

struct [**seq\_operations**](https://elixir.bootlin.com/linux/latest/C/ident/seq_operations) {

void \* (\*start) (struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*m, [**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) \*[**pos**](https://elixir.bootlin.com/linux/latest/C/ident/pos));

void (\*[**stop**](https://elixir.bootlin.com/linux/latest/C/ident/stop)) (struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*m, void \*v);

void \* (\*next) (struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*m, void \*v, [**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) \*[**pos**](https://elixir.bootlin.com/linux/latest/C/ident/pos));

int (\*[**show**](https://elixir.bootlin.com/linux/latest/C/ident/show)) (struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*m, void \*v);

};

int [**seq\_path**](https://elixir.bootlin.com/linux/latest/C/ident/seq_path)(struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*, const struct [**path**](https://elixir.bootlin.com/linux/latest/C/ident/path) \*, const char \*);

int [**seq\_file\_path**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file_path)(struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*, struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*, const char \*);

int [**seq\_dentry**](https://elixir.bootlin.com/linux/latest/C/ident/seq_dentry)(struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*, struct [**dentry**](https://elixir.bootlin.com/linux/latest/C/ident/dentry) \*, const char \*);

int [**seq\_path\_root**](https://elixir.bootlin.com/linux/latest/C/ident/seq_path_root)(struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*m, const struct [**path**](https://elixir.bootlin.com/linux/latest/C/ident/path) \*[**path**](https://elixir.bootlin.com/linux/latest/C/ident/path),

const struct [**path**](https://elixir.bootlin.com/linux/latest/C/ident/path) \*root, const char \*[**esc**](https://elixir.bootlin.com/linux/latest/C/ident/esc));

int [**single\_open**](https://elixir.bootlin.com/linux/latest/C/ident/single_open)(struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*, int (\*)(struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*, void \*), void \*);

int [**single\_open\_size**](https://elixir.bootlin.com/linux/latest/C/ident/single_open_size)(struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*, int (\*)(struct [**seq\_file**](https://elixir.bootlin.com/linux/latest/C/ident/seq_file) \*, void \*), void \*, [**size\_t**](https://elixir.bootlin.com/linux/latest/C/ident/size_t));

int [**single\_release**](https://elixir.bootlin.com/linux/latest/C/ident/single_release)(struct [**inode**](https://elixir.bootlin.com/linux/latest/C/ident/inode) \*, struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*);

void \*[**\_\_seq\_open\_private**](https://elixir.bootlin.com/linux/latest/C/ident/__seq_open_private)(struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*, const struct [**seq\_operations**](https://elixir.bootlin.com/linux/latest/C/ident/seq_operations) \*, int);

int [**seq\_open\_private**](https://elixir.bootlin.com/linux/latest/C/ident/seq_open_private)(struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*, const struct [**seq\_operations**](https://elixir.bootlin.com/linux/latest/C/ident/seq_operations) \*, int);

int [**seq\_release\_private**](https://elixir.bootlin.com/linux/latest/C/ident/seq_release_private)(struct [**inode**](https://elixir.bootlin.com/linux/latest/C/ident/inode) \*, struct [**file**](https://elixir.bootlin.com/linux/latest/C/ident/file) \*);

*/\**

*\* Helpers for iteration over list\_head-s in seq\_files*

*\*/*

extern struct [**list\_head**](https://elixir.bootlin.com/linux/latest/C/ident/list_head) \***[seq\_list\_start](https://elixir.bootlin.com/linux/latest/C/ident/seq_list_start)**(struct [**list\_head**](https://elixir.bootlin.com/linux/latest/C/ident/list_head) \*[**head**](https://elixir.bootlin.com/linux/latest/C/ident/head),

[**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) [**pos**](https://elixir.bootlin.com/linux/latest/C/ident/pos));

extern struct [**list\_head**](https://elixir.bootlin.com/linux/latest/C/ident/list_head) \***[seq\_list\_start\_head](https://elixir.bootlin.com/linux/latest/C/ident/seq_list_start_head)**(struct [**list\_head**](https://elixir.bootlin.com/linux/latest/C/ident/list_head) \*[**head**](https://elixir.bootlin.com/linux/latest/C/ident/head),

[**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) [**pos**](https://elixir.bootlin.com/linux/latest/C/ident/pos));

extern struct [**list\_head**](https://elixir.bootlin.com/linux/latest/C/ident/list_head) \***[seq\_list\_next](https://elixir.bootlin.com/linux/latest/C/ident/seq_list_next)**(void \*v, struct [**list\_head**](https://elixir.bootlin.com/linux/latest/C/ident/list_head) \*[**head**](https://elixir.bootlin.com/linux/latest/C/ident/head),

[**loff\_t**](https://elixir.bootlin.com/linux/latest/C/ident/loff_t) \***[ppos](https://elixir.bootlin.com/linux/latest/C/ident/ppos)**);