

NAME

`elf_newscn` – create a new section for an ELF descriptor

SYNOPSIS

```
#include <libelf.h>
```

```
Elf_Scn *elf_newscn(Elf *elf);
```

DESCRIPTION

The `elf_newscn()` function creates a new section descriptor for the ELF descriptor `elf`.

Each call to `elf_newscn()` appends a new section to the internal list of sections for the ELF descriptor. It also creates a corresponding empty section header, which is zero-initialized and marked dirty. If `elf` does not have any sections yet then `elf_newscn` will also create the null section with `sh_type` `SHT_NULL` at section index 0.

A newly created section has no name or type and must be properly initialized before calling `elf_update()`. Use `elf32_getshdr()` or `elf64_getshdr()` to obtain the section header structure, then populate the required fields. Use `elf_newdata()` to associate one or more data buffers with the new section.

The section with index 0 (the null section) is reserved and cannot have data added to it. `elf_newscn()` will never return this section.

PARAMETERS

`elf` An ELF descriptor that must at least have an `Elf32_Ehdr` or `Elf64_Ehdr` associated with it.

RETURN VALUE

On success, `elf_newscn()` returns a pointer to a new section descriptor. On failure, it returns `NULL` and sets `elf_errno`. If `elf` is `NULL`, then `NULL` is returned without setting `elf_errno`.

SEE ALSO

`elf32_getshdr(3)`, `elf64_getshdr(3)`, `elf_getdata(3)`, `elf_newdata(3)`, `elf_update(3)`, `libelf(3)`, `elf(5)`

ATTRIBUTES

Interface	Attribute	Value
<code>elf_newscn()</code>	Thread safety	MT-Safe

REPORTING BUGS

Report bugs to <elfutils-devel@sourceware.org> or <https://sourceware.org/bugzilla/>.