

NAME

`elf_getshdrstrndx`, `elf_getshstrndx` – retrieve the section header string table index

SYNOPSIS

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

```
int elf_getshdrstrndx("Elf *elf", size_t *dst );
int elf_getshstrndx("Elf *elf", size_t *dst ); (deprecated)
```

DESCRIPTION

The `elf_getshdrstrndx()` function retrieves the section header string table index from the ELF descriptor `elf`, and stores it in the location pointed to by `dst`.

A section's name can be acquired with `elf_strptr(3)`. This function takes the section header string table index from `elf_getshdrstrndx()` as well as the `sh_name` field from the section's `Elf32_Shdr` or `Elf64_Shdr` (see `elf32_getshdr` and `elf64_getshdr`).

This function handles both standard ELF values and extended section indexing. In the latter case, if the section header string table index field of the ELF header contains **SHN_XINDEX**, then the true index is stored in the `sh_link` field of section 0.

The function `elf_getshstrndx()` is a deprecated alias for `elf_getshdrstrndx()` and should not be used in new code (see HISTORY).

PARAMETERS

`elf` A pointer to an **Elf** descriptor. The descriptor must have kind **ELF_K_ELF**. If `elf` is NULL, then this function returns -1 without setting `elf_errno`

`dst` A pointer to a **size_t** location where the index of the section header string table will be stored. Must not be NULL.

RETURN VALUE

Returns 0 on success and stores the section header string table index in `dst`. Returns -1 on failure and sets `elf_errno` (if `elf` is not NULL).

SEE ALSO

`elf32_getshdr(3)`, `elf64_getshdr(3)`, `elf_strptr(3)`, `libelf(3)`, `elf(5)`

ATTRIBUTES

Interface	Attribute	Value
<code>elf_getshdrstrndx()</code> , <code>elf_getshstrndx()</code>	Thread safety	MT-Safe

REPORTING BUGS

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

HISTORY

`elf_getshdrstrndx` first appeared in elfutils 0.142. This function was added due to `elf_getshstrndx` return value inconsistencies between different libelf implementations. `elf_getshdrstrndx` was introduced to ensure that 0 is returned on success.