

NAME

elf_getarsym – retrieve archive symbol table

SYNOPSIS

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

```
Elf_Arsym *elf_getarsym(Elf *elf, size_t *narsyms);"
```

DESCRIPTION

Retrieve the archive symbol table from the archive file associated with *elf*.

If the archive contains a symbol table, **elf_getarsym()** returns a pointer to an array of **Elf_Arsym** structures describing each symbol. Also store the number of symbols in this array in *narsyms* if not NULL.

Elf_Arsym has the following layout:

```
typedef struct {
    char *as_name; /* Symbol name (null-terminated). */
    int64_t as_off; /* File offset of defining archive member. */
    uint64_t as_hash; /* Hash value of symbol name. */
} Elf_Arsym;
```

The last entry in the archive symbol table is the special entry { NULL, 0, ~0L}. This can be used to find the end of the table if *narsyms* is NULL.

PARAMETERS

elf An ELF descriptor referring to an archive file, obtained by calling **elf_begin(3)** on an archive.

narsyms

A pointer to a **size_t** in which the number of entries in the symbol table will be stored if this pointer is not NULL.

RETURN VALUE

If the archive contains a symbol table, return a pointer to an array of **Elf_Arsym** structures, including the special NULL entry indicating the the end of the table. Sets **narsyms* to the number of entries in the array (if *narsyms* is not NULL). These pointers are managed by libelf and should not be freed by the caller of **elf_getarsym**.

If the archive does not contain a symbol table or *elf* is not a valid archive descriptor, **elf_getarsym** returns NULL.

SEE ALSO

elf_begin(3), **elf_getarhdr(3)**, **elf_next(3)**, **libelf(3)**, **elf(5)**

ATTRIBUTES

Interface	Attribute	Value
elf_getarsym()	Thread safety	MT-Safe

REPORTING BUGS

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