

NAME

`elf_hash`, `elf_gnu_hash` – Compute the standard ELF hash or GNU hash of a string.

SYNOPSIS

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

```
unsigned long int elf_hash(const char *string);
unsigned long int elf_gnu_hash(const char *string);
```

DESCRIPTION

The **elf_hash** function computes the standard ELF hash value for a null-terminated string. The hash values are typically used in ELF object files for symbol table hashing. The hash function is used in SHT_HASH sections as it avoids generating architecture-dependent values and is suitable for use across architectures.

The **elf_gnu_hash** function computes the GNU-style hash value of a null-terminated string, used in the SHT_GNU_HASH section.

PARAMETERS

string NULL-terminated string to be hashed.

RETURN VALUE

These functions return a hash value for *string*. Only the lower 32 bits of the return value are used.

SEE ALSO

libelf(3), **elf(5)**

ATTRIBUTES

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

Interface	Attribute	Value
elf_hash() , elf_gnu_hash()	Thread safety	MT-Safe

REPORTING BUGS

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

HISTORY

elf_gnu_hash first appeared in elfutils 0.122. This function is a elfutils libelf extension and may not be available in other libelf implementations.