NAME

elf32_getehdr, **elf64_getehdr**, **gelf_getehdr** - retrieve the object file header

LIBRARY

ELF Access Library (libelf, -lelf)

SYNOPSIS

#include <libelf.h>

*Elf32_Ehdr ***
elf32_getehdr(*Elf *elf*);

*Elf64_Ehdr ***
elf64_getehdr(*Elf *elf*);

#include <gelf.h>

*GElf_Ehdr ***
gelf_getehdr(*Elf *elf*, *GElf_Ehdr *dst*);

DESCRIPTION

These functions retrieve the ELF object file header from the ELF descriptor *elf* and return a translated header descriptor to their callers.

Functions **elf32_getehdr**() and **elf64_getehdr**() return a pointer to the appropriate class-specific header descriptor if it exists in the file referenced by descriptor *elf*. These functions return NULL if an ELF header was not found in file *elf*.

Function **gelf_getehdr**() stores a translated copy of the header for ELF file *elf* into the descriptor pointed to by argument *dst*. It returns argument *dst* if successful or NULL in case of failure.

RETURN VALUES

These functions return a pointer to a translated header descriptor if successful, or NULL on failure.

ERRORS

These functions can fail with the following errors:

[ELF_E_ARGUMENT]
                      The argument *elf* was null.

[ELF_E_ARGUMENT]
>   Argument *elf* was not a descriptor for an ELF file.

[ELF_E_ARGUMENT]
>   The elf class of descriptor *elf* was not recognized.

[ELF_E_ARGUMENT]
>   Argument *dst* was null.

[ELF_E_CLASS]   The ELF class of descriptor *elf* did not match that of the API function being called.

[ELF_E_HEADER]   ELF descriptor *elf* does not have an associated header.

[ELF_E_RESOURCE] An out of memory condition was detected during execution.

[ELF_E_SECTION]   The ELF descriptor in argument *elf* did not adhere to the conventions used for extended numbering.

[ELF_E_VERSION]   The ELF descriptor *elf* had an unsupported ELF version number.

SEE ALSO

elf(3), elf32_newehdr(3), elf64_newehdr(3), elf_flagehdr(3), elf_getident(3), gelf(3), gelf_newehdr(3), elf(5)