NAME

gelf_getrela, **gelf_update_rela** **-** read and update ELF relocation entries with addends

LIBRARY

ELF Access Library (libelf, -lelf)

SYNOPSIS

#include <gelf.h>

*GElf_Rela **
gelf_getrela(*Elf_Data *data*, *int ndx*, *GElf_Rela *rela*);

int
gelf_update_rela(*Elf_Data *data*, *int ndx*, *GElf_Rela *rela*);

DESCRIPTION

These convenience functions are used to retrieve and update class-dependent *Elf32_Rela* or *Elf64_Rela* structures in an ELF object.

Argument *data* is an *Elf_Data* descriptor associated with a section of type SHT_RELA. Argument *ndx* is the index of the entry being retrieved or updated. The class-independent *GElf_Rela* structure is described in gelf(3).

Function **gelf_getrela**() retrieves the class-dependent entry at index *ndx* in data buffer *data* and copies it to the destination pointed to by argument *rela* after translation to class-independent form.

Function **gelf_update_rela**() converts the class-independent entry pointed to by argument *rela* to class-dependent form, and writes it to the entry at index *ndx* in the data buffer described by argument *data*. Function **gelf_update_rela**() signals an error if any of the values in the class-independent representation exceeds the representable limits of the target type.

RETURN VALUES

Function **gelf_getrela**() returns the value of argument *rela* if successful, or NULL in case of an error. Function **gelf_update_rela**() returns a non-zero value if successful, or zero in case of an error.

ERRORS

These functions may fail with the following errors:

[ELF_E_ARGUMENT]
Arguments *data* or *rela* were NULL.

[ELF_E_ARGUMENT]
Argument *ndx* was less than zero or larger than the number of entries in the data descriptor.

[ELF_E_ARGUMENT]
Data descriptor *data* was not associated with a section of type SHT_RELA.

[ELF_E_RANGE] A value was not representable in the target type.

[ELF_E_VERSION] The *Elf_Data* descriptor denoted by argument *data* is associated with an ELF object with an unsupported version.

SEE ALSO

elf(3), elf_getdata(3), elf_getscn(3), gelf(3)