

**NAME**

**gelf\_getdyn**, **gelf\_update\_dyn** - read and update ELF dynamic entries

**LIBRARY**

ELF Access Library (libelf, -lelf)

**SYNOPSIS**

```
#include <gelf.h>
```

```
GElf_Dyn *
```

```
gelf_getdyn(Elf_Data *data, int ndx, GElf_Dyn *dyn);
```

```
int
```

```
gelf_update_dyn(Elf_Data *data, int ndx, GElf_Dyn *dyn);
```

**DESCRIPTION**

These convenience functions are used to retrieve and update class-dependent *Elf32\_Dyn* or *Elf64\_Dyn* information in the **dynamic** table of an ELF object.

Argument *data* is an *Elf\_Data* descriptor associated with a section of type SHT\_DYNAMIC. Argument *ndx* is the index of the entry being retrieved or updated. The class-independent *GElf\_Dyn* structure is described in `gelf(3)`.

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

Function **gelf\_update\_dyn()** converts the class-independent entry pointed to by argument *dyn* to class-dependent form, and writes it to the entry at index *ndx* in the data buffer described by argument *data*.

Function **gelf\_update\_dyn()** 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\_getdyn()** returns the value of argument *dyn* if successful, or NULL in case of an error.

Function **gelf\_update\_dyn()** 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 *dyn* 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\_DYNAMIC.

**[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)