

NAME

`elf_getdata_rawchunk` – create a raw data descriptor from a file offset

SYNOPSIS

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

```
Elf_Data * elf_getdata_rawchunk("Elf *elf", int64_t offset , size_t size , Elf_Type type );
```

DESCRIPTION

The `elf_getdata_rawchunk()` function returns an **Elf_Data** descriptor that refers to a raw region of the ELF file, starting at the given file *offset* and spanning *size* bytes. This is used to access arbitrary byte ranges in the ELF file that may not correspond to any section or segment.

The returned **Elf_Data** *d_buf* will be properly aligned for the requested *type*.

If the file's byte order matches the host, and alignment permits, the raw data is returned as-is. If the file's byte order differs, the buffer is converted into native byte order and aligned for direct access. This behaves like `elf_getdata()`, and not `elf_rawdata()`. The contents of the return value's *d_buf* are a decoded representation.

The returned data is not associated with any section or update mechanism. It will not be included in any output written by `elf_update(3)`. It is also owned by libelf and is valid until `elf_end()` is called on *elf*.

PARAMETERS

elf A pointer to an **Elf** descriptor representing the ELF file.

offset The starting file offset in bytes. This must lie within the bounds of the file.

size The number of bytes to include in the data chunk, starting at *offset*.

type An **Elf_Type** enumeration value indicating the intended interpretation of the data. Values include:

ELF_T_BYTE

Raw bytes.

ELF_T_ADDR, ELF_T_OFF, ELF_T_HALF, ELF_T_WORD, ELF_T_XWORD, ELF_T_SWORD, ELF_T_SXWORD

Integer and pointer types.

ELF_T_EHDR, ELF_T_SHDR, ELF_T_PHDR

ELF file, section, and program headers.

ELF_T_SYM, ELF_T_DYN, ELF_T_REL, ELF_T_RELA, ELF_T_RELR

Symbols and relocations.

ELF_T_NHDR, ELF_T_CHDR, ELF_T_NHDR8

ELF note headers and compressed data headers.

ELF_T_VDEF, ELF_T_VDAUX, ELF_T_VNEED, ELF_T_VNAUX

Versioning structures.

ELF_T_SYMINFO, ELF_T_MOVE, ELF_T_LIB

Other ELF metadata.

ELF_T_GNUHASH

GNU-style hash table.

ELF_T_AUXV

Auxiliary vectors.

RETURN VALUE

Returns a pointer to an **Elf_Data** descriptor on success.

Returns NULL if any arguments are invalid, or if memory allocation or file reading fails. An error code is set which can be retrieved with **elf_errmsg()**. The result is cached and shared between repeated calls using the same arguments.

SEE ALSO

elf(3), **elf_errmsg(3)**, **elf_getdata(3)**, **elf_getscn(3)**, **elf_rawdata(3)**, **libelf(3)**, **elf(5)**

ATTRIBUTES

Interface	Attribute	Value
elf_getdata_rawchunk()	Thread safety	MT-Safe

REPORTING BUGS

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

HISTORY

elf_getdata_rawchunk first appeared in elfutils 0.130. This function is a elfutils libelf extension and may not be available in other libelf implementations.