NAME

elf_memory - process an ELF or ar(1) archive mapped into memory

LIBRARY

ELF Access Library (libelf, -lelf)

SYNOPSIS

#include <libelf.h>

Elf *

elf_memory(char *image, size_t size);

DESCRIPTION

Function **elf_memory**() is used to process an ELF file or ar(1) archive whose image is present in memory.

Argument *image* points to the start of the memory image of the file or archive. Argument *size* contains the size in bytes of the memory image.

The ELF descriptor is created for reading (i.e., analogous to the use of elf_begin(3) with a command argument value of ELF_C_READ).

RETURN VALUES

Function **elf_memory**() returns a pointer to a new ELF descriptor if successful, or NULL if an error occurred.

The return value may be queried for the file type using elf_kind(3).

EXAMPLES

To read parse an elf file, use:

```
int fd;
void *p;
struct stat sb;
Elf *e;
...
if ((fd = open("./elf-file", O_RDONLY)) < 0 ||
fstat(fd, &sb) < 0 ||
(p = mmap(NULL, sb.st_size, PROT_READ, MAP_PRIVATE, fd, (off_t) 0)) ==
MAP_FAILED) {
```

ERRORS

Function **elf_memory**() can fail with the following errors:

[ELF_E_ARGUMENT]	
	A NULL value was used for argument <i>image</i> or the value of argument sz was
	zero.
[ELF_E_HEADER]	The header of the ELF object contained an unsupported value in its
	e_ident[EI_CLASS] field.
[ELF_E_HEADER]	The header of the ELF object contained an unsupported value in its
	<i>e_ident[EI_DATA]</i> field.
[ELF_E_RESOURCE]	An out of memory condition was detected.
[ELF_E_SEQUENCE]	Function elf_memory () was called before a working version was set using
	elf_version(3).
[ELF_E_VERSION]	The ELF object referenced by argument <i>image</i> was of an unsupported ELF
	version.

SEE ALSO

elf(3), elf_begin(3), elf_end(3), elf_errno(3), elf_kind(3), gelf(3)