

**NAME**

**archive\_clear\_error**, **archive\_compression**, **archive\_compression\_name**, **archive\_copy\_error**, **archive\_errno**, **archive\_error\_string**, **archive\_file\_count**, **archive\_format**, **archive\_format\_name**, **archive\_set\_error** — libarchive utility functions

**SYNOPSIS**

```
#include <archive.h>

void
archive_clear_error(struct archive *);

int
archive_compression(struct archive *);

const char *
archive_compression_name(struct archive *);

void
archive_copy_error(struct archive *, struct archive *);

int
archive_errno(struct archive *);

const char *
archive_error_string(struct archive *);

int
archive_file_count(struct archive *);

int
archive_format(struct archive *);

const char *
archive_format_name(struct archive *);

void
archive_set_error(struct archive *, int error_code, const char *fmt, ...);
```

**DESCRIPTION**

These functions provide access to various information about the struct archive object used in the libarchive(3) library.

**archive\_clear\_error()**

Clears any error information left over from a previous call. Not generally used in client code.

**archive\_compression()**

Returns a numeric code indicating the current compression. This value is set by **archive\_read\_open()**.

**archive\_compression\_name()**

Returns a text description of the current compression suitable for display.

**archive\_copy\_error()**

Copies error information from one archive to another.

**archive\_errno()**

Returns a numeric error code (see **errno(2)**) indicating the reason for the most recent error return.

**archive\_error\_string()**

Returns a textual error message suitable for display. The error message here is usually more specific than that obtained from passing the result of **archive\_errno()** to **strerror(3)**.

**archive\_file\_count()**

Returns a count of the number of files processed by this archive object. The count is incremented by calls to `archive_write_header` or `archive_read_next_header`.

**archive\_format()**

Returns a numeric code indicating the format of the current archive entry. This value is set by a successful call to **archive\_read\_next\_header()**. Note that it is common for this value to change from entry to entry. For example, a tar archive might have several entries that utilize GNU tar extensions and several entries that do not. These entries will have different format codes.

**archive\_format\_name()**

A textual description of the format of the current entry.

**archive\_set\_error()**

Sets the numeric error code and error description that will be returned by **archive\_errno()** and **archive\_error\_string()**. This function should be used within I/O callbacks to set system-specific error codes and error descriptions. This function accepts a printf-like format string and arguments. However, you should be careful to use only the following printf format specifiers: “%c”, “%d”, “%jd”, “%jo”, “%ju”, “%jx”, “%ld”, “%lo”, “%lu”, “%lx”, “%o”, “%u”, “%s”, “%x”, “%%”. Field-width specifiers and other printf features are not uniformly supported and should not be used.

**SEE ALSO**

`archive_read(3)`, `archive_write(3)`, `libarchive(3)`, `printf(3)`

**HISTORY**

The **libarchive** library first appeared in FreeBSD 5.3.

**AUTHORS**

The **libarchive** library was written by Tim Kientzle ([kientzle@acm.org](mailto:kientzle@acm.org)).