NAME

archive_entry_clear, archive_entry_clone, archive_entry_free, archive_entry_new — functions for managing archive entry descriptions

LIBRARY

Streaming Archive Library (libarchive, -larchive)

SYNOPSIS

```
#include <archive_entry.h>

struct archive_entry *
archive_entry_clear(struct archive_entry *);

struct archive_entry *
archive_entry_clone(struct archive_entry *);

void
archive_entry_free(struct archive_entry *);

struct archive_entry *
archive_entry_new(void);
```

DESCRIPTION

These functions create and manipulate data objects that represent entries within an archive. You can think of a struct archive_entry as a heavy-duty version of struct stat: it includes everything from struct stat plus associated pathname, textual group and user names, etc. These objects are used by *libarchive*(3) to represent the metadata associated with a particular entry in an archive.

Create and Destroy

There are functions to allocate, destroy, clear, and copy *archive_entry* objects:

archive_entry_clear()
: Erases the object, resetting all internal fields to the same state as a newly-created object. This is provided to allow you to quickly recycle objects without thrashing the heap.

archive_entry_clone()
: A deep copy operation; all text fields are duplicated.

archive_entry_free()
: Releases the struct archive_entry object.

archive_entry_new()
: Allocate and return a blank struct archive_entry object.

Function groups

Due to high number of functions, the accessor functions can be found in man pages grouped by the purpose.

archive_entry_acl(3)	Access Control List manipulation
archive_entry_paths(3)	Path name manipulation
archive_entry_perms(3)	User, group and mode manipulation
archive_entry_stat(3)	Functions not in the other groups and copying to/from `struct stat`.
archive_entry_time(3)	Time field manipulation

Most of the functions set or read entries in an object. Such functions have one of the following forms:

archive_entry_set_XXXX()
: Stores the provided data in the object. In particular, for strings, the pointer is stored, not the referenced string.

archive_entry_copy_XXXX()
: As above, except that the referenced data is copied into the object.

archive_entry_XXXX()
: Returns the specified data. In the case of strings, a const-qualified pointer to the string is returned.

String data can be set or accessed as wide character strings or normal *char* strings. The functions that use wide character strings are suffixed with _w. Note that these are different representations of the same data: For example, if you store a narrow string and read the corresponding wide string, the object will transparently convert formats using the current locale. Similarly, if you store a wide string and then store a narrow string for the same data, the previously-set wide string will be discarded in favor of the new data.

SEE ALSO

archive_entry_acl(3), *archive_entry_paths*(3), *archive_entry_perms*(3), *archive_entry_time*(3), *libarchive*(3)

HISTORY

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

AUTHORS

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