

[Apple Archive](#) / ArchiveStream

Class

ArchiveStream

An archive stream that reads from and writes to data blobs

iOS 14.0+ | iPadOS 14.0+ | Mac Catalyst | macOS 11.0+ | tvOS 14.0+ | visionOS | watchOS 7.0+

```
class ArchiveStream
```

Topics

Creating an Archive Stream

```
init(object: _AAOptionalObjectWrapperWithFilter<_AAArchiveStreamTraits>.AAType?, owned: Bool, messageProc: ArchiveHeader._EntryFilterWrapper?)
```

Returns a new archive stream from the specified traits and entry message processing callback.

Writing Directory Contents

```
func writeDirectoryContents(archiveFrom: FilePath, path: FilePath?, key Set: ArchiveHeader.FieldKeySet, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int) throws
```

Writes all entries from a directory to the archive stream.

Extracting Data

```
static func extractStream(extractingTo: FilePath, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int) -> ArchiveStream?
```

Opens an extract output archive stream.

```
static func withExtractStream<E>(extractingTo: FilePath, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int, (ArchiveStream) throws -> E) throws -> E
```

Calls the given closure with an extract output archive stream.

Encoding Data

```
static func encodeStream(writingTo: ArchiveByteStream, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int) -> ArchiveStream?
```

Opens an encode output archive stream.

```
static func withEncodeStream<E>(writingTo: ArchiveByteStream, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int, (ArchiveStream) throws -> E) throws -> E
```

Calls the given closure with an encode output archive stream.

Decoding Data

```
static func decodeStream(readingFrom: ArchiveByteStream, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int) -> ArchiveStream?
```

Opens a decode input archive stream.

```
static func withDecodeStream<E>(readingFrom: ArchiveByteStream, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int, (ArchiveStream) throws -> E) throws -> E
```

Calls the given closure with a decode input archive stream.

Converting Data

```
static func convertStream(writingTo: ArchiveStream, insertKeySet: ArchiveHeader.FieldKeySet, removeKeySet: ArchiveHeader.FieldKeySet, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, threadCount: Int) -> ArchiveStream?
```

Opens a convert output archive stream.

```
static func withConvertStream<E>(writingTo: ArchiveStream, insertKeySet
: ArchiveHeader.FieldKeySet, removeKeySet: ArchiveHeader.FieldKeySet,
selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags, thread
Count: Int, (ArchiveStream) throws -> E) throws -> E
```

Calls the given closure with a convert output archive stream.

Processing Data

```
static func process(readingFrom: ArchiveStream, writingTo: Archive
Stream, selectUsing: ArchiveHeader.EntryFilter?, flags: ArchiveFlags,
threadCount: Int) throws -> Int
```

Processes archive elements between two archive streams.

Using Custom Streams

```
static func customStream<C>(instance: C) -> ArchiveStream?
```

Returns a new archive stream instance mapped to an object that conforms to the archive stream protocol.

```
static func withStream<C, E>(wrapping: C, (ArchiveStream) throws -> E)
throws -> E
```

Calls the given closure with an archive stream instance mapped to an object that conforms to the archive stream protocol.

Relationships

Conforms To

ArchiveStreamProtocol

See Also

Apple Archive streams

`protocol ArchiveStreamProtocol`

A set of methods that defines the interface for using an archive stream that reads from and writes to data blobs.

`protocol ArchiveByteStreamProtocol`

A set of methods that defines the interface for using an archive stream that reads from and writes to buffers.

`class ArchiveByteStream`

An archive stream that reads from and writes to buffers.