

[Audio Toolbox](#) / [Audio Format Services](#)

API Collection

Audio Format Services

Access information about audio formats and codecs.

Overview

This document describes Audio Format Services, a C interface for obtaining information about audio formats and codecs.

Topics

Audio Format Services Functions

```
func AudioFormatGetProperty(AudioFormatPropertyID, UInt32, UnsafeRawPointer?, UnsafeMutablePointer<UInt32>?, UnsafeMutableRawPointer?) -> OSStatus
```

Gets the value of an audio format property.

```
func AudioFormatGetPropertyInfo(AudioFormatPropertyID, UInt32, UnsafeRawPointer?, UnsafeMutablePointer<UInt32>) -> OSStatus
```

Gets information about an audio format property.

Data Types

```
struct AudioBalanceFade
```

Describes audio left/right balance and front/back fade values.

```
struct AudioFormatInfo
```

A structure that specifies an audio format.

```
struct AudioFormatListItem
```

```
struct AudioPanningInfo
```

Audio panning information.

```
struct ExtendedAudioFormatInfo
```

A specifier for the [kAudioFormatProperty_FormatList](#) property, including the codec to use.

```
typealias AudioFormatPropertyID
```

A type for four-char codes for audio format property identifiers.

Constants

```
enum AudioBalanceFadeType
```

Identifiers for audio balance fade types.

☰ Audio Format Property Identifiers

Constants for use with the [AudioFormatGetPropertyInfo\(: : : : \)](#) and [AudioFormatGetProperty\(: : : : \)](#) functions.

☰ Audio Codec Component Constants

Audio codec component types.

☰ Audio Codec Manufacturer and Implementation Types

Identifiers for audio codec manufacturers and implementation types.

```
enum AudioPanningMode
```

Identifiers for audio panning algorithms.

Result Codes

This table lists the result codes defined for Audio Format Services.

☰ Audio Format Error Codes

```
var kAudioFormatUnspecifiedError: OSStatus
```

An unspecified error.

```
var kAudioFormatUnsupportedPropertyError: OSStatus
```

The specified property is not supported.

`var kAudioFormatBadPropertySizeError: OSStatus`

`var kAudioFormatBadSpecifierSizeError: OSStatus`

`var kAudioFormatUnsupportedDataFormatError: OSStatus`

The playback data format is unsupported (declared in `AudioFormat.h`).

`var kAudioFormatUnknownFormatError: OSStatus`

The specified data format is not a known format.

See Also

Audio Files and Formats

- ☰ [Audio File Services](#)

Read or write a variety of audio data to or from disk or a memory buffer.

- ☰ [Extended Audio File Services](#)

Read and write compressed files and linear PCM audio files using a simplified interface.

- ☰ [Audio File Stream Services](#)

Parse streamed audio files as the data arrives on the user's computer.

- ☰ [Audio File Components](#)

Get information about audio file formats, and about files containing audio data.

- ☰ [Core Audio File Format](#)

Parse the structure of Core Audio files.