

[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.

```
typedef 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.