

[Audio Toolbox](#) / [Audio Unit Voice I/O](#)

API Collection

Audio Unit Voice I/O

Configure system voice processing and respond to speech events.

Topics

Observing muted speech

```
var kAUVoiceIOPROPERTY_MutedSpeechActivityEventListener: AudioUnitPropertyID
```

A property to register a listener that the system calls when it detects speech while the user has the microphone muted.

```
typealias AUVoiceIOMutedSpeechActivityEventListener
```

A block that the system calls to indicate speech activity while the user has the microphone muted.

```
enum AUVoiceIOSpeechActivityEvent
```

Constants that indicate the state of muted speech.

Configuring voice processing

```
var kAUVoiceIOPROPERTY_BypassVoiceProcessing: AudioUnitPropertyID
```

A property that bypasses all processing for microphone uplink done by the voice processing unit.

```
var kAUVoiceIOPROPERTY_VoiceProcessingEnableAGC: AudioUnitPropertyID
```

A property to enable automatic gain control on the processed microphone uplink.

```
var kAUVoiceIOPROPERTY_MuteOutput: AudioUnitPropertyID
```

A property to mute the output of the processed microphone uplink.

Configuring ducking of other audio

```
struct AUVoiceIOOtherAudioDuckingConfiguration
```

A structure that you use to configure ducking of other non-voice audio in a voice chat.

Inspecting errors

```
var kAUVoiceIOErr_UnexpectedNumberOfInputChannels: OSStatus
```

An error that indicates that the audio unit encountered an unexpected number of input channels during initialization.

See Also

Audio Units

- { } Generating spatial audio from a multichannel audio stream
Convert 8-channel audio to 2-channel spatial audio by using a spatial mixer audio unit.
- ☰ Audio Unit v3 Plug-Ins
Deliver custom audio effects, instruments, and other audio behaviors using an Audio Unit v3 app extension.
- ☰ Audio Components
Find, load, and configure audio components, such as Audio Units and audio codecs.
- ☰ Audio Unit v2 (C) API
Configure an Audio Unit and prepare it to render audio.
- ☰ Audio Unit Properties
Obtain information about the built-in mixers, equalizers, filters, effects, and other Audio Unit app extensions.