

## Audio Toolbox

## Function

# AudioConverterFillComplexBuffer RealtimeSafe(\_:\_:\_:\_:\_:\_)

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 26.0+ | tvOS 26.0+ | visionOS 26.0+

```
func AudioConverterFillComplexBufferRealtimeSafe(
    _ inAudioConverter: AudioConverterRef,
    _ inInputDataProc: AudioConverterComplexInputDataProcRealtimeSafe,
    _ inInputDataProcUserData: UnsafeMutableRawPointer?,
    _ ioOutputDataPacketSize: UnsafeMutablePointer<UInt32>,
    _ outOutputData: UnsafeMutablePointer<AudioBufferList>,
    _ outPacketDescription: UnsafeMutablePointer<AudioStreamPacketDescription>?
) -> OSStatus
```

## Discussion

Identical to `AudioConverterFillComplexBuffer`, with the addition of a realtime-safety guarantee.

Conversions involving only PCM formats – interleaving, deinterleaving, channel count changes, sample rate conversions – are realtime-safe. Such conversions may use this API in order to obtain compiler checks involving the `CA_REALTIME_API` attributes.

At runtime, this function returns `kAudioConverterErr_OperationNotSupported` if the conversion requires non-realtime-safe functionality.