

Function

AudioConverterFillComplexBufferWithPacketDependencies(: : : : :)

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

```
func AudioConverterFillComplexBufferWithPacketDependencies(  
    _ inAudioConverter: AudioConverterRef,  
    _ inInputDataProc: AudioConverterComplexInputDataProc,  
    _ inInputDataProcUserData: UnsafeMutableRawPointer?,  
    _ ioOutputDataPacketSize: UnsafeMutablePointer<UInt32>,  
    _ outOutputData: UnsafeMutablePointer<AudioBufferList>,  
    _ outPacketDescriptions: UnsafeMutablePointer<AudioStreamPacket  
Description>?,  
    _ outPacketDependencies: UnsafeMutablePointer<AudioStreamPacketDependency  
Description>  
) -> OSStatus
```

Parameters

inAudioConverter

The audio converter to use for format conversion.

inInputDataProc

A callback function that supplies audio data to convert. This callback is invoked repeatedly as the converter is ready for new input data.

inInputDataProcUserData

Custom data for use by your application when receiving a callback invocation.

ioOutputDataPacketSize

On input, the size of the output buffer (in the `outOutputData` parameter), expressed in number packets in the audio converter's output format. On output, the number of packets of converted data that were written to the output buffer.

outOutputData

The converted output data is written to this buffer. On entry, the buffers' `mDataByteSize` fields (which must all be the same) reflect buffer capacity. On exit, `mDataByteSize` is set to the number of bytes written.

outPacketDescriptions

If not NULL, and if the audio converter's output format uses packet descriptions, this must point to a block of memory capable of holding the number of packet descriptions specified in the `ioOutputDataPacketSize` parameter. (See *Audio Format Services Reference* for functions that let you determine whether an audio format uses packet descriptions). If not NULL on output and if the audio converter's output format uses packet descriptions, then this parameter contains an array of packet descriptions.

outPacketDependencies

Should point to a memory block capable of holding the number of packet dependency description structures specified in the `ioOutputDataPacketSize` parameter. Must not be NULL. This array will be filled out only by encoders that produce a format which has a non-zero value for `kAudioFormatProperty_FormatEmploysDependentPackets`.

Return Value

A result code.

Discussion

Converts audio data supplied by a callback function, supporting non-interleaved and packetized formats, and also supporting packet dependency descriptions.

For output formats that use packet dependency descriptions, this must be used instead of `AudioConverterFillComplexBuffer`, which will return an error for such formats.