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http://www.hackintosh.org/forum/indexpage.php

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正文

mp4文件格式系列9 - Track Reference Atoms - TREF (2007/5/1 03:46)

Track reference atoms define relationships between tracks. Track reference atoms allow one track to specify how it is related to other tracks. For example, if a movie has three video tracks and three sound tracks, track references allow you to identify the related sound and video tracks. Track reference atoms have an atom type value of 'tref'.

Track references are uni-directional and point from the recipient track to the source track. For example, a video track may reference a time code track to indicate where its time code is stored, but the time code track would not reference the video track. The time code track is the source of time information for the video track.

A single track may reference multiple tracks. For example, a video track could reference a sound track to indicate that the two are synchronized and a time code track to indicate where its time code is stored.

A single track may also be referenced by multiple tracks. For example, both a sound and video track could reference the same time code track if they share the same timing information.

If this atom is not present, the track is not referencing any other track in any way. Note that the array of track reference type atoms is sized to fill the track reference atom. Track references with a reference index of 0 are permitted. This indicates no reference.

Each track reference atom defines relationships with tracks of a specific type. The reference type implies a track type. Following table shows the track reference types and their descriptions.

Reference type	Description
tmcd	Time code. Usually references a time code track.
chap	Chapter or scene list. Usually references a text track.
sync	Synchronization. Usually between a video and sound track. Indicates that the two tracks are synchronized. The reference can be from either track to the other, or there may be two references.
scpt	Transcript. Usually references a text track.
ssrc	Nonprimary source. Indicates that the referenced track should send its data to this track, rather than presenting it. The referencing track will use the data to modify how it presents its data. See "Track Input Map Atoms" (page 51) for more information.
hint	The referenced tracks contain the original media for this hint track.

Each track reference type atom contains the following data elements.

Size
A 32-bit integer that specifies the number of bytes in this track reference type atom.

Type
A 32-bit integer that identifies the atom type; this field must be set to one of the values shown in above table.

Track IDs
A list of track ID values (32-bit integers) specifying the related tracks. Note that this is one case where track ID values can be set to 0. Unused entries in the atom may have a track ID value of 0. Setting the track ID to 0 may be more convenient than deleting the reference.

You can determine the number of track references stored in a track reference type atom by subtracting its header size from its overall size and then dividing by the size, in bytes, of a track ID.

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