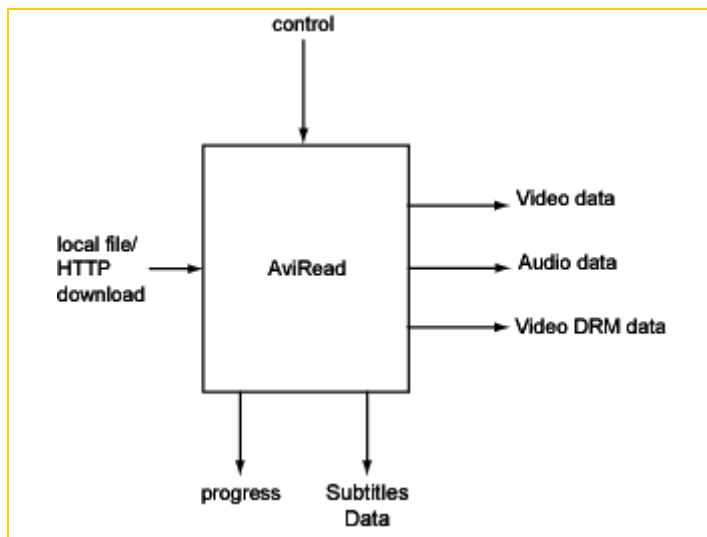


AviRead

AVI Reader

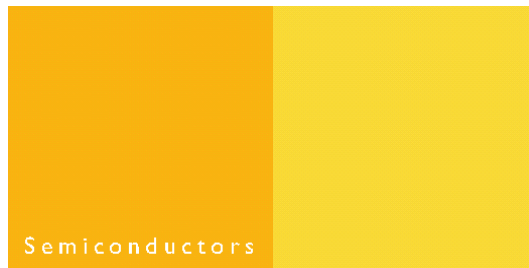
Introduction

AviRead is a TSSA compliant software library that plays back AVI content either from local storage or via HTTP download



Key features

- The AviRead component supports download from a HTTP 1.1 compliant server (RFC2068).
- The AviRead component supports playback from local storage.
- The AviRead component supports jump, pause, resume, fast forward, rewind, select audio track and select subtitles track functionality. Video track can also be enabled and disabled at run time.
- This component is DVP-compatible.
- The AviRead component demultiplexes DivX3.11, DivX 4.12, DivX 5.x and XviD video, MP3 and AC3 audio.
- The AviRead component reports subtitles to application.
- The AviRead component supports audio stream selection.
- The AviRead component supports subtitle selection (sent to the application via progress callback).
- Audio, subtitles and video can be enabled/ disabled separately.



General Information

Description

The AviRead component reads AVI content that may contain DRM from either local storage or from a HTTP 1.1 compliant server. It will demultiplex the incoming data stream into video, drm data and audio access units, which are redirected to TSSA queues for delivery to the respective decoders. It will also retrieve subtitles from the stream and redirect them to application.

Documentation

A detailed document describing the API and the internal behavior of the component is available.

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Technical Information

Memory Usage

Static Memory	2011 bytes
Text Memory	103869 bytes
DYnamic memory (internal buffers and structure)	122382 bytes

Processor Load (including TCP/IP & HTTP stack)

Stream bitrate	Load
930 kbps 640x272 video, with audio, DRMed.	2,089 MC/s (Local file, E04 stream)
4000 kbps, 720 x 480, 30 fps, no audio, no DRM	2,807 MC/s (Local file, B04 stream)
4000 kbps, 720 x 320, 24 fps, with audio, no DRM	3.602 MC/s (Local file, C14 stream)
4000 kbps, 720 x 320, 24 fps, with audio, no DRM	6,341 MC/s (HTTP, TargetTCP, C14 stream)

Operating System Usage

Tasks(FRDR)	1 (AVIR)
Semaphores	0
Queues	0
Mutex	0

Other Information

Supported Processors	TM1500
Build with Compiler Version	tmcc: V7.0.1 of TCS V4.51(0022_Windows)

Example Programs

This library is shipped with an example program that demonstrates the use of the component. The main use is in exolDivX application.

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