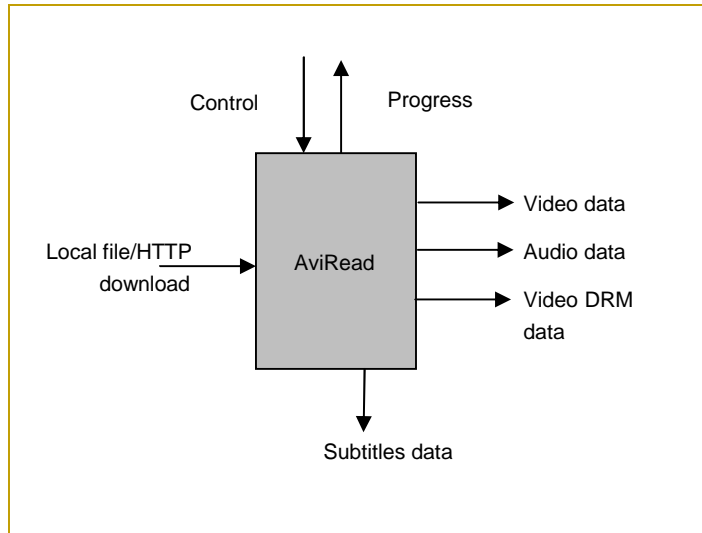


AviRead

AVI Reader

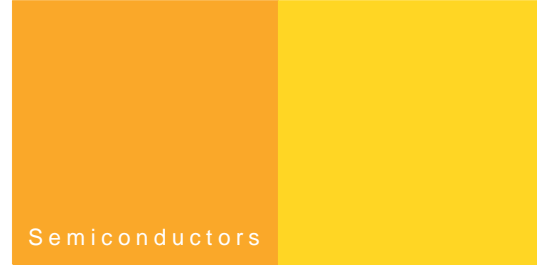
Introduction

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



Key Features

- Supports a TSSA1 compliant interface,
- Reads AVI files and outputs TSSA audio and video streams,
- Examples show it demultiplexing DivX3.11, DivX 4.12, DivX 5.x and XviD video, MP3 and AC3 audio,
- Reports subtitles to the application,
- Using HTTP IO driver supports download from a HTTP 1.1 compliant server (RFC2068)
- Using fread() and appropriate IO drivers, supports playback from local storage,
- Supports trick modes like jump, pause, resume, fast forward, rewind,
- Supports selection of audio track and track functionality.
- Supports dynamic audio track selection,
- Supports DivX players.



General Information

The AviRead component reads AVI format files that are commonly used with DivX video streams. AVI is also used in some video cameras. The AviRead component gets its input from an input stream using an interface based on the POSIX fread() function. It demultiplexes the incoming data stream into video, drm data and audio access units, which are then redirected to TSSA queues for delivery to the respective decoders. It will also retrieve subtitles from the stream and redirect them to the application.

The AviRead component can work together with Digital Rights Management (DRM) systems like that used in DivX.

Documentation

AviRead API user documentation is available with this release.

PHILIPS

AviRead

AVI Reader



Technical Information

Memory Usage (excluding TCP/IP and HTTP stack)

Memory Type	Pnx1500 (bytes)
Static	8228
Text	139971
Dynamic (internal buffers and structure)	123576

Operating System Usage

Type	Usage
Tasks (AVIR)	1
Semaphores	0
Queues	0
Mutex	0

Processor Load

Stream	Average Load (in MCycles)	
	Local File	HTTP
909 kbps 740x480 video, with 224 kbps audio, no DRM	1.2	2.3
2005 kbps, 720 x 480, 30 fps, with 120 kbps audio, no DRM	1.5	3.1
3991 kbps, 720 x 480, 24 fps, with 224 kbps audio, no DRM	1.8	3.7
1000 kbps, 720 x 480, 24 fps, with 224 kbps audio, DRM	7.1	11.9

Other Information

Supported processors – tm1500 and tm1700

Built with compiler version – tmcc v7.1.0 of TCS v4.61
(0042rc10_Windows)

Example Programs

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

Related TriMedia TSSA Software Components

- VdecMpeg4
- VdecDivx
- DrmDivx
- AdecMp3
- AdecAc3

Philips Semiconductors

Philips Semiconductors is a worldwide company with over 100 sales offices in more than 50 countries. For a complete up-to-date list of our sales offices please e-mail sales.addresses@www.semiconductors.philips.com.

A complete list will be sent to you automatically.

You can also visit our website <http://www.semiconductors.philips.com/sales>

© Koninklijke Philips Electronics N.V. 2006

SCS 77

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.



Date of release: July 2006

Published in USA