MP4Read
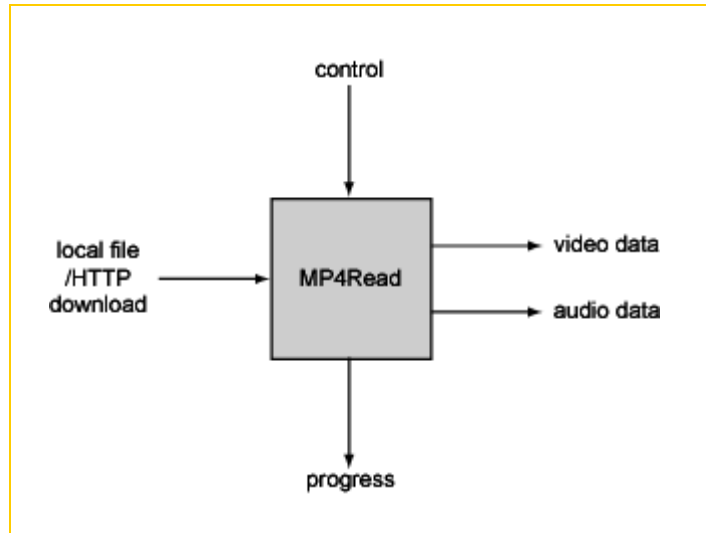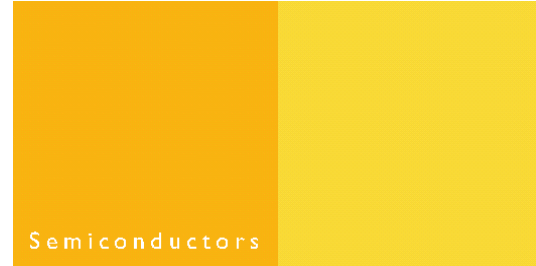# MPEG-4 File Reader

Introduction

MP4Read is a TSSA compliant software library that plays back MPEG-4 content either from local storage or via HTTP download.

General Information

Description

The MP4Read component reads MPEG-4 content from either local storage or from a HTTP 1.1 compliant server. It will demultiplex the incoming data stream into video and audio access units, which are redirected to TSSA queues, for delivery to the respective decoders.

Documentation

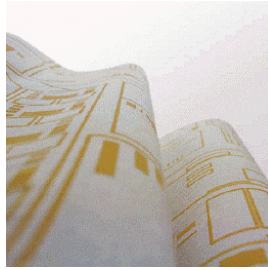The software requirements specification document of the MP4Read component is available.

Key features

- This component is DVP-compatible.
- The MP4Read component is ISMA level 1 profile 0 and 1 compliant.
- The MP4Read component demultiplexes MPEG-4 video (ISO/IEC 14496-2) and MPEG-4 (ISO/IEC 14496-3) CELP and AAC audio.
- The MP4Read component supports download from a HTTP 1.1 compliant server (RFC2068).
- The MP4Read component supports playback from local storage.
- The MP4Read component supports jump, pause and resume functionality.
- The MP4Read component offers a stream selection functionality.

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MP4Read

MPEG-4 File Reader

www.semiconductors.philips.com

Technical Information

Memory Usage (excluding TCP/IP & HTTP stack)

Static Memory	136323
Text Memory	131823

Dynamic Memory	
Object instantiation & internal buffers	Stream dependent +/- 1200000 bytes

Processor Load (excluding TCP/IP & HTTP stack)

Stream	Load (in MCycles)
4000 kbps video (720x480) 288 kbps audio (48.kHz, stereo, AAC)	3.482 MC/s (Local file) 5,292 MC/s (HTTP, TargetTCP)
2600 kbps video (352x576) 96 kbps audio (48.kHz, stereo, AAC)	4,307 MC/s (Local file) 4,214 MC/s (HTTP, TargetTCP)
1500 kbps video (720x576) 96 kbps audio (44.kHz, stereo, AAC)	2,597 MC/s (Local file) 3,126 MC/s (HTTP, TargetTCP)
700 kbps video (352x288) 96 kbps audio (32.kHz, stereo, AAC)	2,908 MC/s (Local file) 2,529 MC/s (HTTP, TargetTCP)

Operating System Usage

Tasks (FRDR)	1
Semaphor	0
Queues	0
Mutex	3

Other Information

Supported processors	TM1500
Compiler version	tmcc: V7.0.1 of TCS V4.51 (0168_Windows)

Related TriMedia TSSA Software Components

VdecMpeg4, AdecAac4, AdecCelp4

Example Programs

This library is shipped with an example program, exolMpeg4, that demonstrates the use of the component.

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