AdecAac4
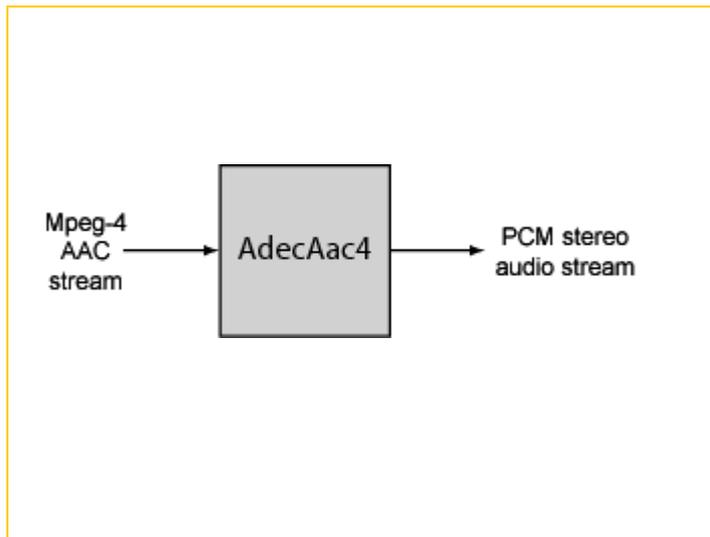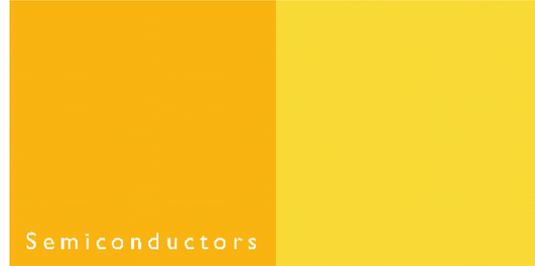
Mpeg-4 AAC Decoder

Introduction

The AdecAac4 component decodes bitstreams encoded in 'MPEG4-AAC' format. The decoder is optimized to handle bitstreams on the 32-bit TriMedia processors.

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Key features

- DVP compliant
- Fully compliant with the MPEG-4 AAC audio standards ISO 14496-4
- Optimized for the TriMedia processors

General Information

Description

The AdecAac4 component is designed for use in systems that decode Mpeg4 AAC format audio streams . MPEG-4 AAC streams are described by ISO/IEC JTC 1/SC 29/WG 11 N2503-Sub4 and ISO/IEC 14496-4, International Standards, at bit rates ranging from 16kb/s to 288kb/s for mono and 32kb/s to 288kb/s for stereo. The decoder matches the MPEG-4 High Quality Audio profile base layer.

AdecAac4 accepts as input MPEG-4 AAC audio elementary streams. It always outputs stereo PCM audio samples. (if the source is mono, both left and right channel contain the same samples) The library is optimized for the TriMedia processors.

Applications

- MPEG-4 Player
- Internet/Multimedia system

Documentation

Detailed documentation of the AdecAac4 component is available (Specifications, Architecture Implementation, Test Reports).

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Mpeg-4 AAC Decoder

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Technical Information

Memory Usage

Static Memory	80.3 KBytes
Dynamic Memory	746.6 KBytes

Note that additional memory is required for buffering of input and output data. The amount is highly application dependent.

Processor Load (MIPS)

The processor load was measured on a pnx1500 running at 300 MHz with 200MHz DDR.

Minimum CPU load	3.5
Maximum CPU load	18.268

Other Information

Supported Processors	TM1500
Build with Compiler Version	tmcc of V7.0.1 of SDE V4.3_PR1(0149_Windows)

Example Programs

This library is shipped with an example program that demonstrates the use of the component.
The main use is in the exolMpeg4 application. See exolMpeg4 Application Readme for details.

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