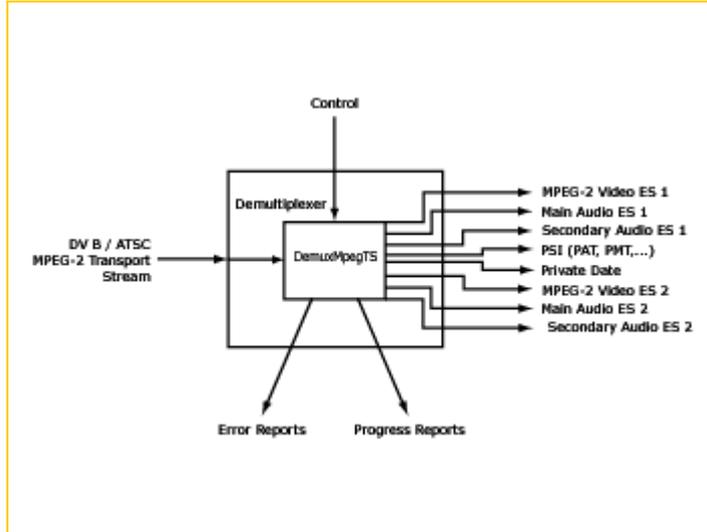
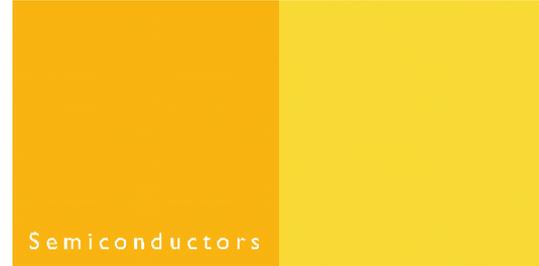


DemuxMpegTs

MPEG2 Transport Stream

Introduction

DemuxMpegTs is a TSSA compliant software library that takes in a MPEG2-transport stream. DemuxMpegTs can whether demultiplex the selected MPEG-2 program into video, audio data or extract packet payloads and send them to the specified queues. It can run on all members of the 32-bit Trimedia Processor family.



General Information

Description

The DemuxMpegTs takes one data input, an Mpeg-2 transport stream. The AV outputs are grouped in sets of 3 queues, one for video, one for main audio and one for secondary audio. Each of these might or might not be active. A control input can be used to redirect audio/video elementary streams, PSI (Program Specific Information), or other private data to certain queues.

Documentation

A detailed document describing the API is available.

Key features

- The DemuxMpegTs supports MPEG-2 transport streams (as per ISO/IEC 13818-1).
- The demultiplexer prefetches data into the cache before sending it to the audio and video decoders.
- The DemuxMpegTs component is re-entrant. Multiple instances can run at the same time.
- The DemuxMpegTs can extract up to 4 programs (each containing video, audio, secondary audio and clock reference)
- The demultiplexer manages its own memory.

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Technical Information

Memory Usage

Static Memory	55521 bytes
Dynamic memory	6840 bytes

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

Processor Load

DemuxMpegTs consumes a maximum load of 11 megacycles/second on a system where the clock ratio of CPU:SDRAM is 1:1 and the input bit rate is 10.08 Mbps

Other Information

Supported Processors	TM1500
Build with Compiler Version	V5.7.1 of tcs2.2-dvp0003

Related TriMedia TSSA Software Components

tmVdecMpeg, tmVrendVo, tmAdecMpeg, tmAdecAc3, ArendAO

Example Programs

This library is shipped with an example program, ex01DemuxMpegTs, which demonstrates how to use the streaming interface of the DemuxMpegTs..

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SCS 77

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