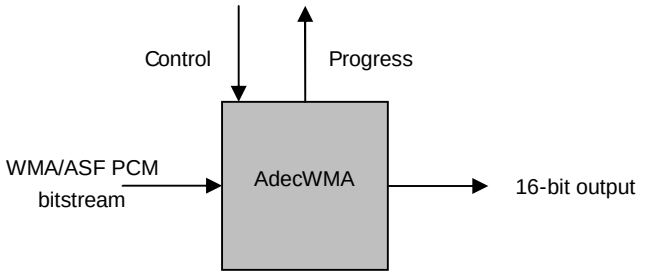
AdecWMA

WMA Decoder

Introduction

The AdecWma component decodes bitstreams encoded in WMA v7/8/9 format. The decoder is optimized to handle bitstreams on the 32-bit TriMedia processors.



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General Information

The AdecWma decoder is designed to accept input from an ASF Demux. An ASF demux parses the ASF header and sends the required header information to the decoder. The input bitstreams should conform to the ASF specifications. The input audio bitstream can be from a transport stream (HTTP) or a local file.

The decoder conforms to the WMA v9 standard specification and is backward compatible for WMA v8 and WMA v7 streams. The decoder decodes streams with any combination of the supported bitrate and sampling rates of all three profiles (L1,L2,L3) as specified by the WMA v9 standard. This decoder does not support WMA Voice, WMA Professional and WMA Loseless.

Documentation

AdecWma API user documentation is provided with the MPTK package.

Key Features

- Decodes all WMA/ASF bitstreams which are WMA v7, v8 and v9 compliant,
- Stereo output with 16-bit PCM sample resolution,
- Supports bitrates from 8Kbps to 320Kbps.Both VBR and CBR are supported,
- Supports sampling frequencies from 8KHz to 48KHz,
- Supports playing from transport streams (HTTP) and local files,
- Supports streaming TSSA1 interfaces.

Applications

- WMT player
- Internet/multimedia system

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Technical Information

Memory Usage

Memory	pnx1500 (Kbytes)	pnx1700 (Kbytes)
Static	225	
Dynamic (excluding pSOS task stack size)	378.5	

Additional memory is required for buffering of input and output data. This amount is application dependent.

Processor Load

Processor	WMA Vers.	Sampling Rate KHz	Bit Rate Kbps	CPU Load (MIPS)
pnx1500 (running at 300 MHz with 200MHz DDR)	V9	44	320	17.5
	V8	48	192	16.8
	V7	44	192	16.3
pnx1700 (running at 500 MHz with 200MHz DDR)	V9	44	320	23.4
	V8	48	192	22.2
	V7	44	192	22.1

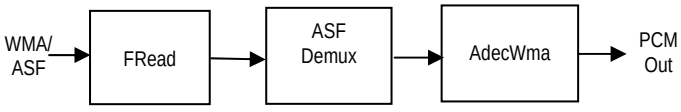
Other Information

Supported processors – TM1500, TM1700

Built with compiler version – TCS v4.61/NDK 5.3

Example Programs

This library is shipped with the example exolAdecWma. It reads a WMA/ASF stream from a file and is sent to the ASF Demux that parses the input file. The demux ouput is given to the decoder, which decodes it and sends the decoded PCM samples to the audio renderer. It can also write the decoded PCM samples into a file.



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