

AviRead is a TSSA compliant software library that will parse an avi-file and demultiplexes it into video and audio data. It can run on all members of the 32-bit Trimedia Processor family.

# AviRead



## Description

The AviRead component is used to read AVI-files, parse the headers and send the audio and video chunks to their respective outputs. The structure of an AVI-file is described in the [msdn](#). An AVI-file may contain video and audio data encoded with different encoders. AviRead will read the header information, like codecs, bit rates and resolutions and report these. The video and/or audio data can be accepted or rejected by the application.

AviRead will only parse the first audio and video stream in the file. Files with a size below 4GB are supported.

## Applications

- DivX-player
- Internet/Multimedia system

## Documentation

A detailed document describing the API and the internal behavior of the component is available.

## Features:

- Parse the header information and report to application
- Application can accept or reject the audio and/or video data
- Jump to keyframe, nearest to the given time
- Set the maximum memory used for the index file.

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## Technical Information

### Memory Usage

Static Memory	50 KBytes
Dynamic Memory for headerinfo	1 KBytes
Dynamic Memory for index	48Byte for every keyframe
Dynamic Memory for movi of 2hour (7200 keyframes)	338 KBytes

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

### Processor Load

Stream bitrate	Load
800 Kb/s	1.67 Mcycles/sec
1200 Kb/s	2.32 Mcycles/sec
1500 Kb/s	2.82 Mcycles/sec

### All measurements have been done with:

Description of the TriMedia board:

Type	TriRef
CPU	TM1300
CPU clock	166.67Mhz
Memory	32MB
SDRAM/CPU clock ratio	1:1

Configuration of the host PC:

Type	NA
CPU	Pentium II
CPU clock	NA
Memory	Na
OS	Windows NT 4.0 SP5

### Other Information

Supported Processors	TM1300
Version number	1.0
Build with Compiler Version	V5.7.1 pf tcs2.2-dvp0003WinNT

### Example Programs

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

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