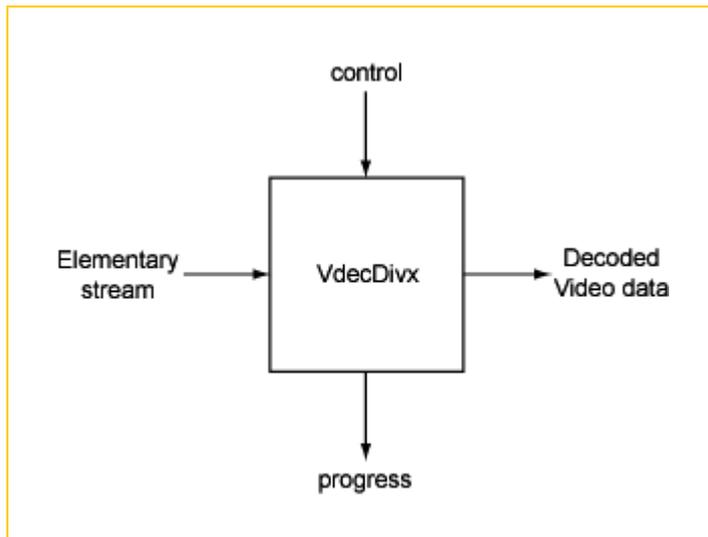


VdecDivx

Divx decoder

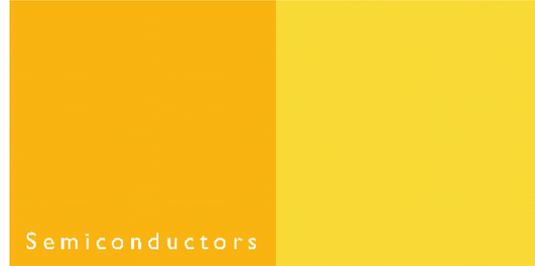
Introduction

VdecDivx is a high performance TSSA compliant software library that decodes divx 3, divx 4 and divx 5 streams.



Key features

- This component is DVP-compatible.
- The VdecDivx component decodes DivX3.11, DivX 4.12, DivX 5.x. The decoder supports Portable and Home Theatre Profiles.
- The VdecDivx component features graceful degradation by skipping the decoding of frames to allow smooth playback of high-bitrate streams.
- Post processing may be activated by setting a level of post processing from 0 to 99. These levels are defined by Divx Networks.
- The VdecDivx component provides application with all necessary information to choose algorithm of graceful degradation.



General Information

Description

The VdecDivx component takes an elementary video stream, typically from an avi file parser such as AviRead. It will decode the video stream and produce output in planar or simiplanar video format. Optionally, post processing may be configured.

Documentation

The software requirements specification document of the VdecDivx component is not available.

VdecDivx

Divx decoder



Technical Information

Memory Usage

Static Memory	86521 bytes
Text Memory	414710 bytes

Dynamic Memory

<ul style="list-style-type: none"> when planar output is enabled 	243506 bytes
<ul style="list-style-type: none"> when semi-planar output is enabled 	472406 bytes
<ul style="list-style-type: none"> when planar output and post processing are enabled 	3529452 bytes
<ul style="list-style-type: none"> when semi-planar output and post processing are enabled 	3758352 bytes

Processor Load

Stream	Load: Peak over 4 frames / Average (in MCycles)
Home Theatre Profile	
Stream b01 - DivX 3.11, 720x480, 2 Mbit	181 / 98
Stream DivX 4.12 - DivX 4.12, 720x480, 4 Mbit	173 / 105
Stream d01 - DivX 5.05, 720x480, 3 Mbit, int	186 / 110
Stream b04 - DivX 5.05, 720x576, 4 Mbit	185 / 136
Stream b04 + semiplanar output	197 / 148
Stream b04 + deblocking	269 / 222
Stream b04 + dering	685 / 480
Portable Profile	
DivX 5.05 (352x240, 768 Kbit)	49 / 32

Operating System Usage

Tasks(FRDR)	1
Semaphores	0
Queues	0
Mutex	0

* - All numbers are relevant for PNX1500 processor

Operating System Usage

Tasks	1 (VDDX)
Semaphores	0
Queues	0
Mutex	0

Other Information

Supported Processors	TM1500
Build with Compiler Version	tmcc: V7.0.1 of TCS V4.51(0022_Windows)

Related TriMedia TSSA Software Components

VdecMpeg4, AviRead, VrendGfxVO

Example Programs

exolDivx

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