

The VdecGif component decodes GIF89a and GIF87a formats and outputs YUV 4:2:2 raw image data.



VdecGif

Description

The VdecGif component is a GIF decoder. It decodes a GIF89a and GIF87a formats and outputs raw image data with support for both NTSC and PAL video broadcast standard.

The component is capable of decoding multiple GIF files.

The decoder is capable of decoding GIF files of any dimension as long as the number of pixels in the image is restricted to 2M pixels.

The component may perform down scaling of the image. The scaling dimensions are limited only by the available memory.

When the file to be decoded is an animated GIF file, the VdecGif decoder will only decode the first image in the file.

When it is a GIF file with transparency, the transparent pixels will be replaced by black pixels.

Applications

- Photo Album Viewer

Documentation

Detailed documentation of the VdecGif component is available.

Features

- Decodes GIF87a and GIF89a formats
- Output is YUV 4:2:2 planar format
- Supports both NTSC and PAL
- Supports decoding of multiple GIF files
- Supports downscaling
- TSSA compatible

VdecGif

Technical Information

Memory Usage

Static Memory	104.437 kBytes
Dynamic Memory (excluding pSOS task stack size)	7.740kBytes for the decoder 667.648 kBytes for the input and output packet.

Processor Load (MIPS)

The VdecGif component can decode image sizes of up to 4M pixels/second.

Other Information

Supported Processors	pnx1300
Version number	2.2
Build with Compiler Version	TCS 2.2

Related TriMedia TSSA Software Components

Fread, VrendVo.

Example Programs

The sample program, exolPicture, reads the compressed data and the decoded uncompressed data is displayed on a TV.

It facilitates:

1. Open and Close test
2. Start and Stop tests
3. Downscaling tests for user specified dimensions

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