

TriMedia[®] MJPEG Lib

*JPEG-Library for compressing and decompressing graphic data
for the TriMedia Multimedia Processor*

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Features:

- JPEG - compression in compliance to ITU Recommendation T.81 (09/92)
- JPEG - decompression in compliance to ITU Recommendation T.81 (09/92)
- easy-to-use buffer interface
- multiple video channels possible
- linkable object code and header files
- demo-applications in source code: grab and compress from video input, file to file compression and decompression, decompressing the video data to the video output
- adjustable quality from 0 to 100 %
- speed of the compression and decompression with a quality of 75% and a CIF(352x288) – image: 25fps PAL, 30fps NTSC
- small storage requirements
- available as a TSSA component (TriMedia Streaming Software Architecture)



30kByte-JPEG-graphic (352*288) with a compression of 1:5



10kByte-JPEG-graphic (352*288) with a compression of 1:15



3kByte-JPEG-graphic (352*288) with a compression of 1:50

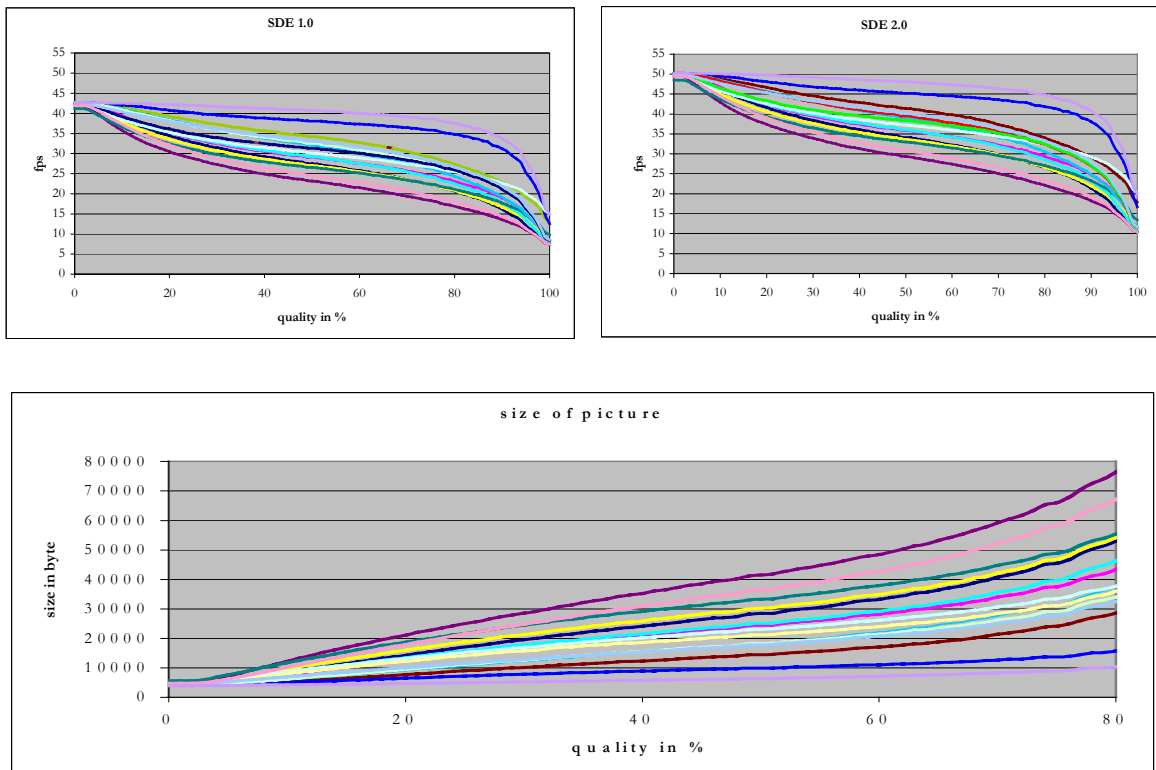
Easy-to-use interface:

```
//Encoder:
int mjpg_enc_open(void);
int mjpg_enc_close( int handle );
int mjpg_enc_set_quality( int handle, int nQuality );
int mjpg_enc_frame( int handle, UINT8 *pStream, int nLength, VIDEOBUFFER *pBuffer );

//Decoder:
int mjpg_dec_open(void);
int mjpg_dec_close( int handle );
int mjpg_dec_frame( int handle, VIDEOBUFFER *pBuffer, char *pStream, int nLength );
```

Performance:

The following tests were created with different video - images (288x720) on a 100 MHz CPU:



Additional Information

About TriMedia® chip:

<http://www.trimedia.philips.com>

About more TriMedia® based products:

<http://www.dresearch.de>

<http://www.mds.com>

About JPEG:

<http://www.jpeg.org>