Gici File Format Converter Manual

(version 2.0)

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http://www.gici.uab.es - http://gici.uab.cat/GiciWebPage/downloads.php

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1 Description

This software is a file format converter and much more, including:

- File format conversion.
- · Coefficient Rounding.
- Value saturation.
- Spatial / Spectral Wavelets.
- Cropping.
- · Spectral DPCM.
- Generalized transposition (i.e., component permutations).

2 Requirements

This software is programmed in Java, so you might need a JAVA Runtime Environment(JRE) to run this application. We have used SUN JAVA 1.5.

JAI The Java Advanced Imaging (JAI) library is used to load and save images in formats other than raw or pgm. The JAI library can be freely downloaded from http://java.sun.com. **Note:** You don't need to have this library installed in order to compile the source code.

3 Usage

The application is provided in a single file, a jar file (*dist/ffc.jar*), that contains the application. Along with the application, the source code is also provided. If you need to rebuild the jar file, you can use the ant command.

To launch the application you can use the following command:

```
$ java -Xmx1200m -jar dist/ffc.jar --help
```

In a GNU/Linux environment you can also use the shell script ffc situated at the root of the ffc directory.

Two examples of usage are provided below:

• Convert an input big-endian floating-point image into a integer 16bit little-endian image.

```
$ ./ffc -i "$INFILE-float-bigendian.raw" -ig $Z $Y $X 6 0 \
-o "$OUTFILE-16bpppb-littleendian.raw" -og $Z $Y $X 3 1
```

• Apply 5 levels of spectral wavelet transform.

```
$ ./ffc -i "$INFILE-16bpppb-bigendian.raw" -ig $Z $Y $X 3 0 \
    -o "$OUTFILE-16bpppb-bigendian.raw" -og $Z $Y $X 3 0 \
    --spectralWaveletLevel 5
```

4 Notes

If you need further assistance, you might want to contact us directly.