

\*\*\*\*\*Draft\*\*\*\*\*  
***JPEG provides better compression than SVG.***  
07/11/20  
\*\*\*\*\*Draft\*\*\*\*\*

Forked <https://github.com/memononen/nanosvg>

Scalable Vector Graphics is an Extensible Markup Language-based vector image format for two-dimensional graphics with support for interactivity and animation. The SVG specification is an open standard developed by the World Wide Web Consortium

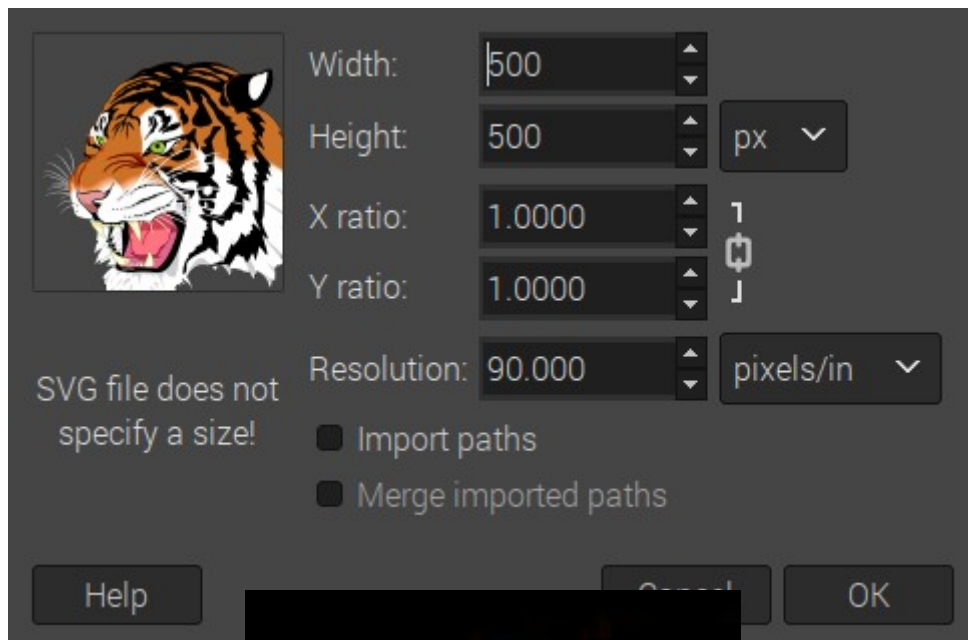
git clone <https://github.com/develone/nanosvg.git>

Used Gimp to convert to a bmp file

```
-rw-r--r-- 1 devel devel 96719 Jul 11 06:15 23.svg
```

```
-rw-r--r-- 1 devel devel 31451 Jul 11 07:20 test.j2k
```

gimp nanosvg/example/23.svg



tiger.bmp



11-7-20 13:18:36           786486 tiger\_512.bmp copied to

11-7-20 13:18:36           786486 MyBitmap.bmp

6-3-20 12:28:26           24 512com  
00000000 19 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00 .....  
00000010 00 02 00 00 00 02 00 00

~/Ultibo\_Projects/jpeg2000/src \$  
./compile\_ultibo.sh

-rw-r--r-- 1 devel devel 387632 Jul 11 07:00 libopenjp2.a

less libopenjp2\_obj.txt

bio.o  
cio.o  
dwt.o  
event.o  
function\_list.o  
image.o  
invert.o  
j2k.o  
jp2.o  
mct.o  
mqc.o  
openjpeg.o  
opj\_clock.o  
opj\_malloc.o  
pi.o  
raw.o  
rd-wr-ops.o  
t1.o  
t2.o  
tcd.o  
tgt.o  
thread.o

~/Ultibo\_Projects/jpeg2000/RPi2 \$  
./libbuild.sh

-rw-r--r-- 1 devel devel 409590 Jul 11 07:00 libdwtlift.a

less libdwtlift\_obj.txt

bio.o  
cio.o  
dwt.o  
event.o  
function\_list.o  
image.o  
invert.o  
j2k.o  
jp2.o  
mct.o  
mqc.o  
openjpeg.o  
opj\_clock.o  
opj\_malloc.o  
pi.o  
raw.o  
rd-wr-ops.o  
t1.o  
t2.o  
tcd.o  
tgt.o  
thread.o  
dwtlift.o

Lazarus IDE (Ultibo Edition)  
Was used to create the kernel7.img  
ls -la kernel7.img

DWT\_LIFT\_Rpi2.lpr

```
{ $linklib dwtlift }  
{ $linklib libm }  
procedure decom_test(x0,y0,x1,y1:LongWord;fn:string); cdecl; external 'libdwtlift' name  
'decom_test';  
procedure rd_inps(); cdecl; external 'libdwtlift' name 'rd_inps';
```

-rwxr-xr-x 1 devel devel 3197924 Jul 11 07:00 kernel7.img

~/Ultibo\_Projects/jpeg2000/RPi2 \$ tftp 192.168.1.245 < cmdstftp  
tftp> tftp> Sent 3197924 bytes in 12.7 seconds

telnet xx.xx.xx.xx

C:\>del testfile

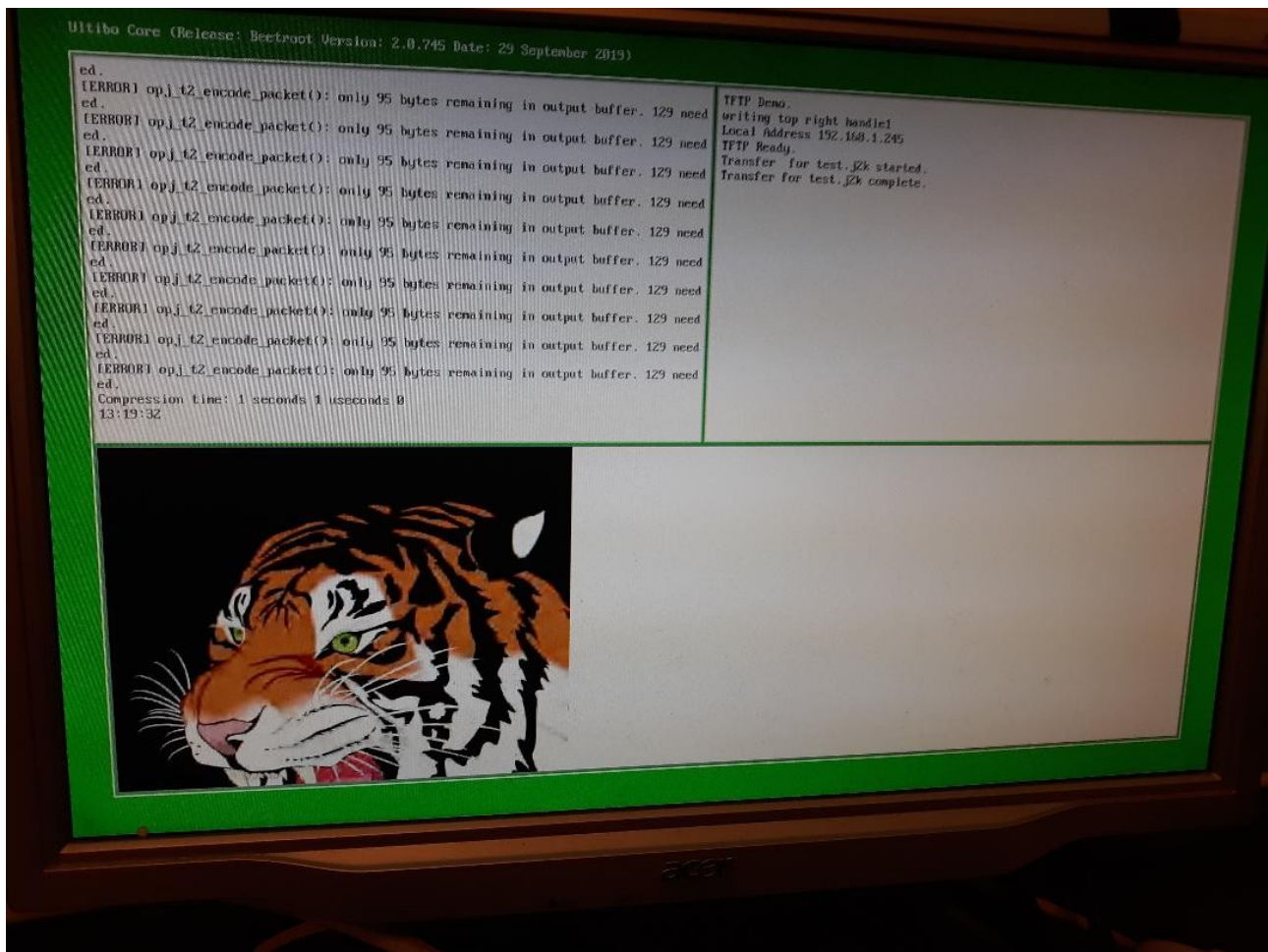
[C:\copy](#) 512com testfile

1 file(s) copied

[C:\>del](#) MyBitmap.bmp

[C:\copy](#) tiger\_512.bmp MyBitmap.bmp

C:\>restart



```
-rw-r--r-- 1 devel devel 31451 Jul 11 07:20 test.j2k
```

```
git clone https://github.com/develone/openjpeg.git t_ultibo
```

```
cd t_ultibo/
```

```
git checkout ultibo
```

```
cd build/
```

```
cmake ../
```

```
~/t_ultibo/build/src
```

```
bin lib
```

```
cd lib/
```

```
make
```

```
cd ../bin
```

```
make
```

```
libopenjp2.a opj_compress opj_decompress opj_dump
```

```
~/t_ultibo/build/bin/ultibo $ ../opj_decompress -i test.j2k -o ultibo.bmp
```

```
[INFO] Start to read j2k main header (0).
```

```
[INFO] Main header has been correctly decoded.
```

```
[INFO] No decoded area parameters, set the decoded area to the whole image
```

```
[INFO] Header of tile 1 / 1 has been read.
```

```
[INFO] Generated Outfile ultibo.bmp
```

```
decode time: 106 ms
```

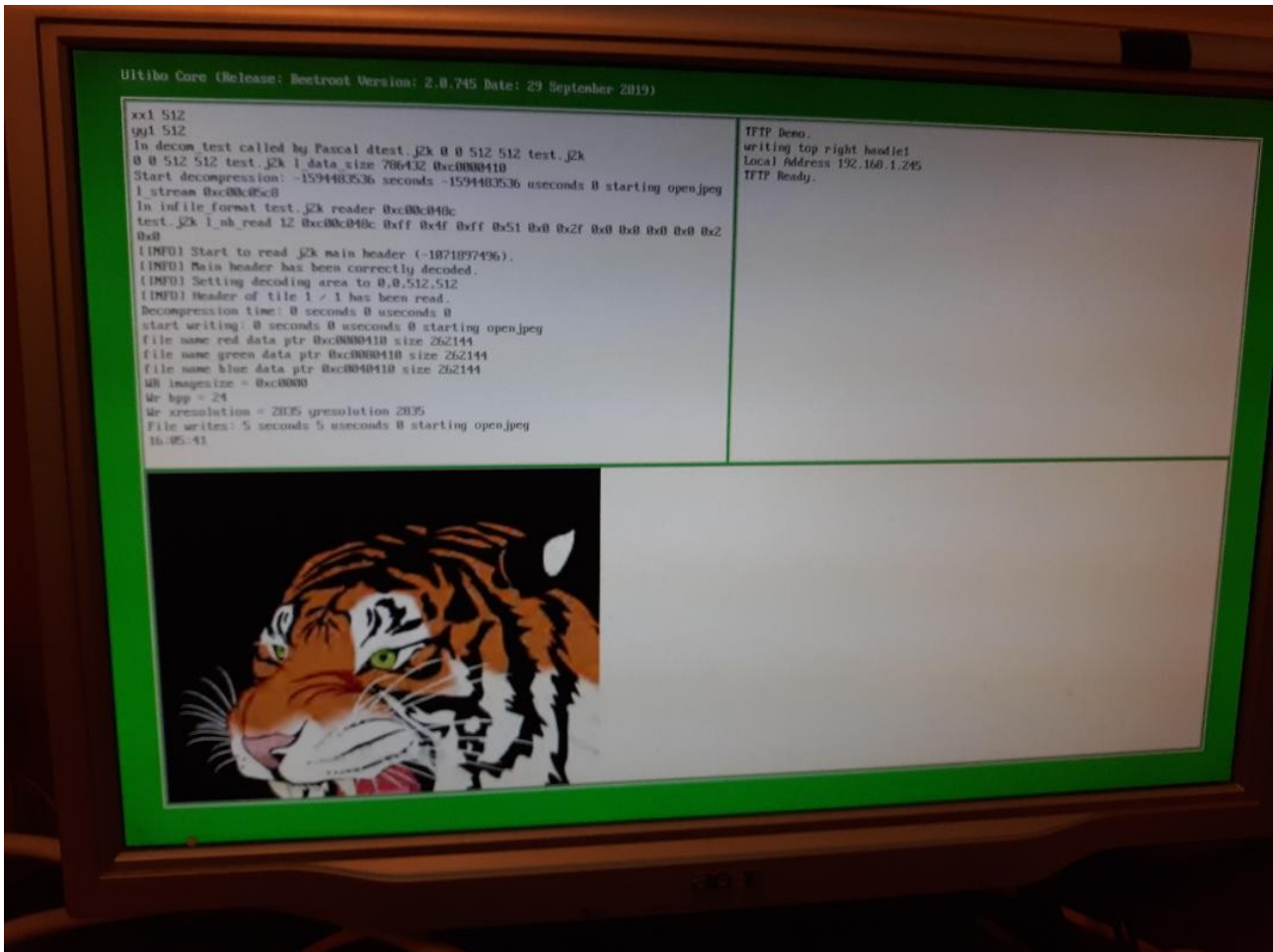


```
C:\>del testfile
```

```
C:\512decom2decom testfile
```

```
1 file(s) copied
```

C:\>restart



11-7-20 13:03:18

196730 test\_wr.bmp



