NanoVG, NanoSVG, Nuklear

07/15/20

On 07/13/20 I posted about a missing demo.c file. See the note below about the the missing file demo.c

I located a file demo.c in https://github.com/develone/nanovg/blob/master/example/demo.c repo. I created a script https://github.com/develone/Ultibo_Projects/blob/master/nano-vg-svg-nuk/RPi2/buildlib.sh

I needed to modify Testnanogl.c by adding "/" to the include.

- -#include "opt/vc/include/GLES/gl.h"
- -#include "opt/vc/include/GLES/glext.h"
- -//#include "opt/vc/include/GLES2/gl2.h"
- +#include "/opt/vc/include/GLES/gl.h"
- +#include "/opt/vc/include/GLES/glext.h"
- +//#include "/opt/vc/include/GLES2/gl2.h"

Was this chg needed since I was working in RPi4 instead of MS Windows.

Downloaded RPi2 from ultibo forum RPi2.zip https://ultibo.org/forum/download/file.php?id=327&sid=b0c9a16c33c16d7d63413d4b017acc96 stb_image_write.h, Testnanogl.c, and libTestnanogl.a

{\$linklib Testnanogl}

procedure glSwapBuffer;export; cdecl;

procedure getMouseXY(var cx: integer; var cy: integer; var btc: integer);export; cdecl; procedure getScreenSize(var scrWidth: LongWord; var scrHeight: LongWord);export; cdecl;

procedure test; cdecl; external 'libTestnanogl' name 'test';

This is the initial commit

~/Ultibo_Projects/nano-vg-svg-nuk/RPi2/sdfiles \$ md5sum * 9e6230038afeddd6b174d8fa8a19a371 config.txt 5fc4614096c4b753fd940b75b1fa2247 fixup.dat fb8e67c4e54427fdca9fab410d41ce2e fixup_x.dat 9864d17fa3bcd20738ee9c0c67b2330c start.elf 6fa698231abdd267ba84c4cf3c7ab8d2 start x.elf

md5sum ~/firmwar_for_ultibo/022720/*

156a886d5855e42a887f0dd9316fb4e3 /home/devel/firmwar_for_ultibo/022720/bootcode.bin 5fc4614096c4b753fd940b75b1fa2247 /home/devel/firmwar_for_ultibo/022720/fixup.dat fb8e67c4e54427fdca9fab410d41ce2e /home/devel/firmwar_for_ultibo/022720/fixup_x.dat 9864d17fa3bcd20738ee9c0c67b2330c /home/devel/firmwar_for_ultibo/022720/start.elf 6fa698231abdd267ba84c4cf3c7ab8d2 /home/devel/firmwar_for_ultibo/022720/start_x.elf

~/Ultibo_Projects/nano-vg-svg-nuk/RPi2 \$ md5sum sdfiles/bootcode.bin sdfiles/config.txt sdfiles/fixup* sdfiles/start*
156a886d5855e42a887f0dd9316fb4e3 sdfiles/bootcode.bin
9e6230038afeddd6b174d8fa8a19a371 sdfiles/config.txt
5fc4614096c4b753fd940b75b1fa2247 sdfiles/fixup.dat
fb8e67c4e54427fdca9fab410d41ce2e sdfiles/fixup_x.dat
9864d17fa3bcd20738ee9c0c67b2330c sdfiles/start.elf
6fa698231abdd267ba84c4cf3c7ab8d2 sdfiles/start_x.elf

home/devel/Ultibo_Projects/OpenGLES/HelloGLES/RPi2/HelloGLES.lpr

07/13/20 with these files on micro sd

diffuse HelloGLES.lpr ../../OpenGLES/HelloGLES/RPi2/HelloGLES.lpr

```
52304 bootcode.bin
6-7-20 23:01:16
6-7-20 23:01:18
                        1301 config.txt
                        4598 cube_constant_blue_01.cob
6-7-20 23:01:18
                        4694 cube constant green 01.cob
6-7-20 23:01:18
                        4709 cube_constant_red_01.cob
6-7-20 23:01:18
                        4584 cube_constant_white_01.cob
6-7-20 23:01:18
                        4694 cube_constant_yellow_01.cob
6-7-20 23:01:18
6-7-20 23:01:18
                        6745 fixup.dat
                        9817 fixup x.dat
6-7-20 23:01:18
                        2678 height_grass_40_40_01.bmp
6-7-20 23:01:18
6-7-20 23:01:22
                   <DIR>
                               md2
                      2884420 start.elf
6-7-20 23:01:30
                      3798568 start_x.elf
6-7-20 23:01:30
6-7-20 23:01:32
                      196662 stone256_256_01.bmp
6-7-20 23:01:32
                      1440054 sunset800_600_03.bmp
                       3062488 kernel7.img
13-7-20 18:16:44
13-7-20 15:47:48
                        20468 dump.png
                      0 MD2ERROR.TXT
1-1-80
1-1-80
                      0 ERROR.TXT
                       1440054 cockpit03.bmp
14-1-03 02:09:24
                       1440054 cockpit03b.bmp
14-1-03 02:09:30
                      1152054 cockpit03bW.bmp
4-7-20 23:00:40
                      1152054 cockpit03W.bmp
4-7-20 22:57:52
                        9462 crosshair01.bmp
14-1-03 02:08:26
                       1440054 nebblue01.bmp
14-1-03 02:09:48
14-1-03 02:08:36
                       1440054 nebgreen03.bmp
                       1440054 nebred01.bmp
14-1-03 02:08:36
                       230454 tech_char_set_01.bmp
14-1-03 02:09:26
13-7-20 18:13:46
                        60367 tie04.cob
    28 file(s) 21303445 bytes
     1 dir(s)
```

1. ~/Ultibo_Projects/nano-vg-svg-nuk/RPi2 \$ tftp 192.168.1.245 < cmdstftp tftp> tftp> Sent 3062488 bytes in 38.6 seconds



2. ~/Ultibo_Projects/soft-rast-ultibo/RPi3 \$ tftp 192.168.1.245 < cmdstftp tftp> tftp> Sent 3754920 bytes in 24.9 seconds 3.

 $\sim \!\! /Ultibo_Projects/soft-rast-ultibo/raiders3d_ultibo_source/RPI3 \$ tftp \ 192.168.1.245 < cmdstftp \ tftp \!\!\!\! > Sent \ 3250784 \ bytes \ in \ 15.9 \ seconds$