

Flex CAM Serial

Introduction

This application is for the PC side part of the Flex CAM Serial Demo. Currently, it runs under MS Windows with CygWin Posix environment, facilitating easy adaptation of the code for a native Posix system.

Running

The program must be executed in a command prompt window (Microsoft/Cygwin).

Requirements

The program uses cygwin1.dll (included in the distribution), that can either be shared through the windows PATH environment variable or be placed in the executable directory.

Usage

flex-cam-serial <videolsnap> <type> [port]

video : Configure flex for video (continous image stream)

snap : Configure flex for snapshot (single image)

type : Select the type of image:

- gray2 - Gray scale 2 bit
- gray4 - Gray scale 4 bit
- gray8 - Gray scale 8 bit
- rgb16 - RGB 16 bit (R:5 - G:6 - B:5)
- rgb12 - RGB 12 bit (R:4 - G:4 - B:4)
- jpeg - Jpeg compressed image

port : the serial port to connect; default is com1 (windows).

Example of usage :

- flex-cam-serial video jpeg
- flex-cam-serial video gray2 com1
- flex-cam-serial snap rgb12

Note

The demo has been tested at 38400 bps baud rate. Change the UART1 speed on the Flex side driver to try different baud rates. The run-time errors are defined in the header file [flexCAM.h](#).

Compilation

The executable is build using the GNU toolchain under CygWin. On the command prompt use `$ make` command to compile the project. Use `$ make help` command to view build options

Requirements

Following CygWin packages:

- GNU toolchain (g++, make)
- libjpeg
- FLTK library, version 1.1.8 or higher

IMPORTANT

Make following changes in the header file 'jmorecfg.h', usually located under '/urs/include' sub-directory.

Replace

```
#ifndef HAVE_BOOLEAN
```

with

```
#if (!defined(HAVE_BOOLEAN)) && (!defined(_RPCNDR_H))
```

Replace

```
#ifndef XMD_H
```

with

```
#if (!defined(XMD_H) && !defined(_BASSETSD_H))
```

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