

# 哈尔滨石油学院

## 实验报告

课程名称：\_\_\_\_ 嵌入式系统 \_\_\_\_

实验题目：\_\_\_\_ GUI \_\_\_\_

专业、班级：\_\_\_\_ 计算机科学与技术 3 班 \_\_\_\_

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学号：\_\_\_\_ 201705440322 \_\_\_\_

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信息工程学院

## 一、实验目的

- (1) 会搭建 QT 开发环境
- (2) 了解 QT 移植的流程
- (3) 移植一个 hello 文件

## 二、实验原理

通过可视化编程软件编写的程序，可以移植到相关的嵌入式系统上，实现可视化控制。实验步骤

## 三、实验内容及步骤

实验步骤：

### 1. 主机 Qt 开发环境搭建

- 1) 将 qt-opensource-linux-x64-5.4.2.run 拷贝到 Linux 任意目录下
- 2) 安装 Qt 开发环境

### 2. Qt-everywhere 移植

- 1) 拷贝源码 qt-everywhere-opensource-src-5.3.1.tar.xz 到 Linux 任意目录下
- 2) 解压源码
- 3) 修改源码
- 4) 拷贝 configure.sh 到解压后的源码目录下
- 5) 配置源码
- 6) 编译安装源码
- 7) 根文件系统修改

### 3. Qt-Creater 设置

- 1) 打开 qtcreator
- 2) 配置 qt 版本
- 3) 配置编译器
- 4) 配置开发套件

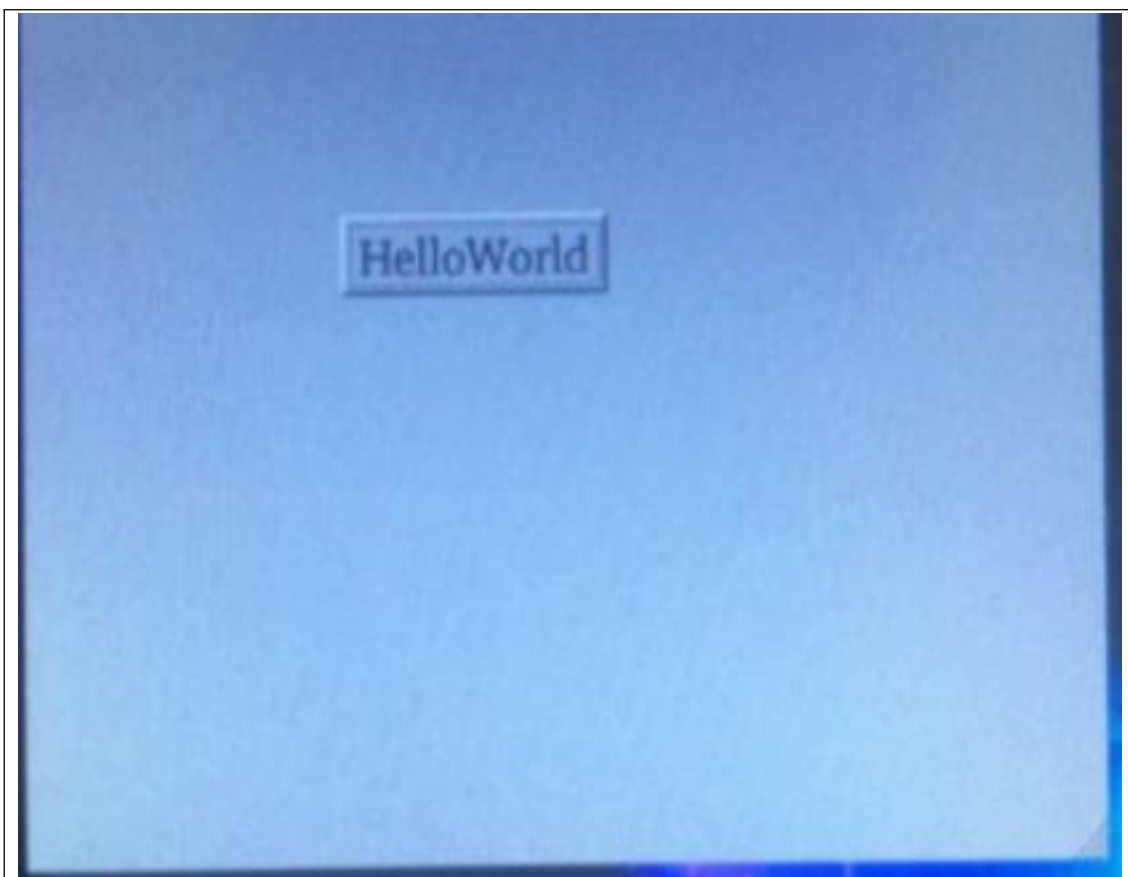
### 4. 创建第一个工程 HelloWorld

#### 四、实验结果（可附相关截图）

```
COM3 - PuTTY
[ 9.682000] page flags: 0x8000(tail)
[ 9.689000] page flags: 0x80000000()
[ 9.732000] BUG: Bad page state in process mkdir pfn:bfd83
[ 9.733000] page:clbb7060 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 9.740000] page flags: 0x80000000()
[ 9.749000] BUG: Bad page state in process swapper/5 pfn:499ad
[ 9.749000] page:c0cef5a0 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 9.757000] page flags: 0x8000(tail)
[ 9.764000] BUG: Bad page state in process rcS pfn:bfd8b
[ 9.766000] page:clbb7d60 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 9.766000] BUG: Bad page state in process rcS pfn:499fd
[ 9.766000] page:c0ceffa0 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 9.766000] page flags: 0x0()
[ 9.768000] BUG: Bad page state in process mount pfn:bfd9b
[ 9.768000] page:clbb7360 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 9.768000] page flags: 0x80000000()
[ 9.805000] page flags: 0x80000000()
[ 9.872000] BUG: Bad page state in process mdev pfn:62ed1
[ 9.873000] page:c1019a20 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 9.878000] page flags: 0x0()
[ 10.039000] BUG: Bad page state in process rcS pfn:49ba9
[ 10.039000] page:c0cf3520 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 10.046000] page flags: 0x0()
[ 10.074000] BUG: Bad page state in process sh pfn:bfdcf
[ 10.074000] page:clbb79e0 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 10.081000] page flags: 0x80000000()
~/bin/sh: ONTDIR:/opt/qt:/opt/qt/lib/./opt/qt/plugin:: not found
[root@farsight]#
[root@farsight]#
[root@farsight]#
[root@farsight]#
[root@farsight]#
[root@farsight]#
[root@farsight]#
[root@farsight]# ls
HelloWorld fs6818_led.ko lib[ 13.172000] BUG: Bad page state in process sh pfn:49b01
[ 13.175000] page:c0cf2020 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 13.179000] page flags: 0x0()
usr root var
```

```
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[root@farsight]#
[root@farsight]# ls
HelloWorld fs6818_led.ko lib[ 13.172000] BUG: Bad page state in process sh pfn:49b01
[ 13.175000] page:c0cf2020 count:0 mapcount:-1048576 mapping: (null) index:0x0
[ 13.179000] page flags: 0x0()
usr root var

bin fs6818b_test linuxrc sbin
boot fs6818m_test mnt sys
hello opt tmp
proc
```



### 五、结果分析及心得体会

本次实验我通过可视化编程软件编写的程序，可以移植到相关的嵌入式系统上，实现可视化控制，实现了 Helloworld 的输出，我可以进一步的学习图形化开发打下良好的基础。

### 六、成绩评定

考核项目	实验态度及 出勤情况	实验操作 情况	实验报告	成绩评定
得分				

指导老师签字：

