开发环境搭建

安装TinyOS工具链

清理之前的安装

```
sudo dpkg -P `dpkg -1 nesc '*tinyos*' | grep ^ii | awk '{ print $2 }' | xargs` sudo apt-get clean
```

添加tinyprod源

```
cd /etc/apt/sources.list.d
sudo echo "deb http://tinyprod.net/repos/debian squeeze main" >> tinyprod-debian.list
sudo echo "deb http://tinyprod.net/repos/debian msp430-46 main" >> tinyprod-debian.list
```

安装相应工具链

```
sudo apt-get update
sudo apt-get install nesc tinyos-tools msp430-46 avr-tinyos
```

安装TinyOS

下载并解压

```
#进入用户目录
cd --
#下载并解压
mget http://github.com/tinyos/tinyos-release/archive/tinyos-2_1_2.tar.gz
tar xf tinyos-2_1_2.tar.gz
#将文件夹改名为tinyos-main
mv tinyos-release-tinyos-2_1_2 tinyos-main
cd tinyos-main
#心健环境变量配置文件
touch tinyos.env
sudo chmod *x tinyos.env
gedit tinyos.env
```

加入下列配置

```
export TOSROOT="/home/xxx/tinyos-main"
#xxx/为用户名
export TOSOIR="$TOSROOT/tos"
export CLASSPATH=$CLASSPATH:$TOSROOT/support/sdk/java
```

export MAKERULES="\$TOSROOT/support/make/Makerules"
export PYTHOMPATH=\$PYTHOMPATH:\$TOSROOT/support/sdk/python
echo "setting up TinyOS on source path \$TOSROOT"

将tinyos.env加入.bashrc

sudo gedit .bashrc

在最后一行加入 source /home/xxx/tinyos-main/tinyos.env 重启终端

echo \$TOSROOT

查看是否为/home/xxx/tinyos-main,已确认环境变量已经生效

配置环境变量

编译例程

#进入tinyos安装目录:

cd \$TOSROOT

cd apps

■选择一个需要编译的程序

cd Blink

書編译

make telosb

显示...compiled BlinkAppC to build/telosb/main.exe ...说明编译成功

TinyOS Tutorials

http://tinyos.stanford.edu/tinyos-wiki/index.php/TinyOS_Tutorials

TOSSIM TinyOs 仿真器

http://tinyos.stanford.edu/tinyos-wiki/index.php/TOSSIM