

1. 下载psplash源码，可以看到是yocto开源的其中一个项目

USER# git clone git://git.yoctoproject.org/psplash

```
alientek@ubuntu:~/misc/psplash$ git clone git://git.yoctoproject.org/psplash
正克隆到 'psplash'...
remote: Counting objects: 224, done.
remote: Compressing objects: 100% (104/104), done.
remote: Total 224 (delta 146), reused 197 (delta 119)
接收对象中: 100% (224/224), 97.26 KiB | 79.00 KiB/s, done.
处理 delta 中: 100% (146/146), done.
检查连接... 完成。
alientek@ubuntu:~/misc/psplash$
```

2. 将图片转换成头文件，利用源码下的make-image-header.sh脚本进行转换。转换前需要下载一些库才可以，否则会报错。执行指令安装库sudo apt-get install libgdk-pixbuf2.0-dev。

将下两张图片复制到psplash源码目录中

主图片，也就是要替换opendev的那张图片



进度条的外框



本人已经复制到我的psplash源码目录中了，如下图

```
alientek@ubuntu:~/misc/PSPLASH/psplash$ ls
alientek.png  configure.ac  NEWS          psplash-bar-img.h  psplash-colors.h  psplash.doap  psplash-hand-img.h  README
AUTHORS       COPYING      psplash-bar.png  psplash-config.h   psplash-console.c  psplash-fb.c  psplash-poky-img.h
base-images   Makefile.am  psplash.c       psplash-console.h  psplash-fb.h       psplash-write.c
ChangeLog     make-image-header.sh
```

3. 在当前目录下输入下面的指令./make-image-header.sh alientek.png POKY生成 alientek-img.h

POKY 这个参数只是一个变量，它会传入alientek-img.h里面，可以打开来看看。

```
alientek@ubuntu:~/misc/PSPLASH/psplash$ ./make-image-header.sh alientek.png POKY
alientek@ubuntu:~/misc/PSPLASH/psplash$ ls
alientek-img.h  ChangeLog  make-image-header.sh  psplash.c  psplash-console.h  psplash.h  radeon-font.h
alientek.png    configure.ac  NEWS                  psplash-colors.h  psplash.doap  psplash-hand-img.h  README
AUTHORS         COPYING      psplash-bar-img.h    psplash-config.h  psplash-fb.c   psplash-poky-img.h
base-images     Makefile.am  psplash-bar.png      psplash-console.c  psplash-fb.h   psplash-write.c
```

下图我们打开了alientek-img.h这个文件来看，它是必须是这样命名的。因为其他地方要用到这样的宏定义，所以要加POKY参数



```

i * the Free Software Foundation; either version 2, or (at your option)
* any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
*/

#include "psplash.h"
#include "psplash-config.h"
#include "psplash-colors.h"
// #include "psplash-poky-img.h"
#include "alientek-img.h"
#include "psplash-bar-img.h"
#include "radeon-font.h"

#define SPLIT_LINE_POS(fb) \
    ((fb)->height

```

4.制作autogen.sh脚本，用于生成Makefile，脚本内容如下，编写完成赋予可执行权限再执行

```
#!/bin/bash
```



```
aclocal
```

```
autoheader
```

```
automake --add-missing
```

```
autoconf
```

```

alientek@ubuntu:~/misc/PSPLASH/psplash$ vi autogen.sh
alientek@ubuntu:~/misc/PSPLASH/psplash$ chmod +x autogen.sh
alientek@ubuntu:~/misc/PSPLASH/psplash$ ./autogen.sh
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
    LANGUAGE = "zh_CN:en_US:en",
    LC_ALL = (unset),
    LC_PAPER = "en_US.UTF-8",

```

5.修改Makefile.am

将psplash-poky-img.h改为 alientek-img.h

```

bin_PROGRAMS=psplash psplash-write

AM_CFLAGS = $(GCC_FLAGS) -D_GNU_SOURCE

psplash_SOURCES = psplash.c psplash.h psplash-fb.c psplash-fb.h \
    psplash-console.c psplash-console.h \
    psplash-colors.h psplash-config.h \
    alientek-img.h psplash-bar-img.h radeon-font.h

psplash_write_SOURCES = psplash-write.c psplash.h

EXTRA_DIST = make-image-header.sh

MAINTAINERCLEANFILES = aclocal.m4 compile config.guess config.sub configure depcomp install-sh ltmain.sh Makefile.in missing

snapshot:
    $(MAKE) dist distdir=$(PACKAGE)-snap`date +%Y%m%d`

~
~
~
~

```

6.配置交叉编译工具链，前提使能环境变量source /opt/fsl-imx-x11/4.1.15-2.1.0/environment-setup-cortexa7hf-neon-poky-linux-gnueabi

USER# ./configure --host=arm-linux

7.执行make：生成psplash与psplash-write，将psplash与psplash-write拷贝到根文件系统/usr/bin/目录下（实质上复制psplash也可以了）

```
arm-poky-linux-gnueabi-gcc -march=armv7ve -mcpu=cortex-a7 --sysroot=/opt/fsl-imx-x11/4.1.15-2.1.0/sysroot
ts/cortexa7hf-neon-poky-linux-gnueabi -DHAVE_CONFIG_H -I. -g -Wall -Wextra -D_GNU_SOURCE -g -O2 -MT psplash-console.o -MD -MP -MF .
deps/psplash-console.Tpo -c -o psplash-console.o psplash-console.c
mv -f .deps/psplash-console.Tpo .deps/psplash-console.o
arm-poky-linux-gnueabi-gcc -march=armv7ve -mcpu=cortex-a7 --sysroot=/opt/fsl-imx-x11/4.1.15-2.1.0/sysroot
ts/cortexa7hf-neon-poky-linux-gnueabi -g -Wall -Wextra -D_GNU_SOURCE -g -O2 -WL,-O1 -WL,--hash-style=gnu -WL,--as-needed -o psplash p
splash.o psplash-fb.o psplash-console.o
arm-poky-linux-gnueabi-gcc -march=armv7ve -mcpu=cortex-a7 --sysroot=/opt/fsl-imx-x11/4.1.15-2.1.0/sysroot
ts/cortexa7hf-neon-poky-linux-gnueabi -DHAVE_CONFIG_H -I. -g -Wall -Wextra -D_GNU_SOURCE -g -O2 -MT psplash-write.o -MD -MP -MF .de
ps/psplash-write.Tpo -c -o psplash-write.o psplash-write.c
mv -f .deps/psplash-write.Tpo .deps/psplash-write.o
arm-poky-linux-gnueabi-gcc -march=armv7ve -mcpu=cortex-a7 --sysroot=/opt/fsl-imx-x11/4.1.15-2.1.0/sysroot
ts/cortexa7hf-neon-poky-linux-gnueabi -g -Wall -Wextra -D_GNU_SOURCE -g -O2 -WL,-O1 -WL,--hash-style=gnu -WL,--as-needed -o psplash-w
rite psplash-write.o
make[1]:正在离开目录`/home/alientek/misc/PSPLASH/psplash'
alientek@ubuntu:~/misc/PSPLASH/psplash$ ls
aclocal.m4      ChangeLog      configure.ac   Makefile.in    psplash.c      psplash-fb.c  psplash-write
alientek-img.h compile        COPYING       make-image-header.sh psplash-colors.h psplash-fb.h  psplash-write.c
alientek.png   config.h      depcomp       missing         psplash-config.h psplash-fb.o  psplash-write.o
AUTHORS        config.h.in  INSTALL      NEWS            psplash-console.c psplash.h     radeon-font.h
autogen.sh     config.log   install-sh    psplash         psplash-console.h psplash-hand-img.h README
autom4te.cache config.status Makefile      psplash-bar-img.h psplash-console.o psplash.o     stamp-h1
base-images    configure   Makefile.am  psplash-bar.png psplash.doap    psplash-poky-ing.h
alientek@ubuntu:~/misc/PSPLASH/psplash$
```

8.psplash.sh脚本在根文件系统/etc/init.d中，此项已经存在。

9.psplash.sh的链接在根文件系统/etc/rcS.d/目录下，用于开机启动。