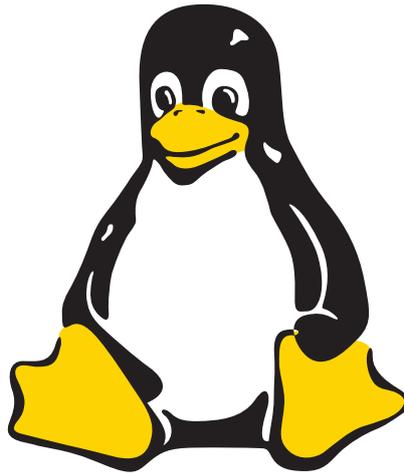


OE-LITE LINUX – HOW TO START DEVELOPMENT

- Quick Start Guide Example

This is an example of how easy it should be to start development with OE-LITE Linux on some of the free and open-source board support packages, please visit <http://www.oe-lite.org> (oe-lite.org) for the most current and update Quick Start Guide. The Quick Start Guide is targeting OE-lite Linux work on Ubuntu Linux (10.04 and newer). For other Linux distributions see the GenericDistroQuickStart on oe-lite.org.



FIX /BIN/SH SYMLINK

OE-LITE does not work with /bin/sh symlinked to dash, it must be bash. If you haven't already done this, then the following should be done:

```
sudo rm /bin/sh && sudo ln -s bash /bin/sh
```

Alternatively, you can do this interactively using "sudo dpkg-reconfigure dash" and answer "no".

INSTALL REQUIRED SOFTWARE

Simple aptitude installation ensures you the correct OE-LITE Linux tools on your Ubuntu Linux desktop machine.

```
sudo apt-get install -y python-software-properties
```

```
sudo add-apt-repository ppa:git-core/ppa
```

```
sudo add-apt-repository ppa:esbenhaabendal/oe-lite
```

```
sudo apt-get update
```

```
sudo apt-get install -y git-core
```

```
sudo apt-get install -y oe-lite
```

SETUP OE-LITE LINUX DEVELOPMENT ENVIRONMENT

OE-LITE Linux uses git as version control system.

```
oe clone git://gitorious.org/oe-lite/oe-lite.git
```

```
cd oe-lite
```

CONFIGURE AND BUILD FOR THE I.MX53 QSB

For building images for the i.MX53 QSB set the desired distro and machine configuration :

```
echo 'MACHINE="imx53qsb"' >> conf/local.conf  
echo 'DISTRO="base"' >> conf/local.conf
```

Build U-Boot, Linux kernel and example rootfs with:

```
oe bake rootfs kernel u-boot-imx
```

If (when) all goes well, you can find all the image files built in tmp/images/

OE-LITE LINUX IS AND USES OPEN-SOURCE

- Know the licenses of your platform

With OE-LITE Linux the overview of used licenses on the used source code is easy as OE-LITE Linux generates an overview list with each build of an image. The list is placed in the root filesystem image at /bom.txt and contains information as the example shown below.

PACKAGE	LICENSE	DESCRIPTION
alsa-lib	LGPL-2.1 LGPL-2.0+	Alsa sound library
alsa-utils	GPL-2.0+	ALSA Utilities
amd-gpu-x11-bin-mx51	MIT	GPU driver and apps for x11 on mx51
appliance-watchdog	MIT	appliance-watchdog
automount	LGPL-2.1+	Busybox mdev script, automount of sd* and mmcblk* devices
base-files	GPL-2.0	Miscellaneous files for the base system.
base-hostname	GPL-2.0	Hostname script for the base system.
base-passwd	GPL	OE-LITE Linux minimal base passwd/group files
base-version	N/A	Distroversion and build-time file creation.
busybox	GPLv2	BusyBox: The Swiss Army Knife of Embedded Linux
dosfstools	GPLv3	DOS FAT Filesystem Utilities
dropbear	MIT	Dropbear is a lightweight SSH and SCP Implementation
dropbear-host-key	MIT	Pregenerated dropbear rsa host key
..... and so it continues for all used packages		

The identifiers used, is from The Linux Foundation license list <http://spdx.org/licenses>, where the full license text is also present.