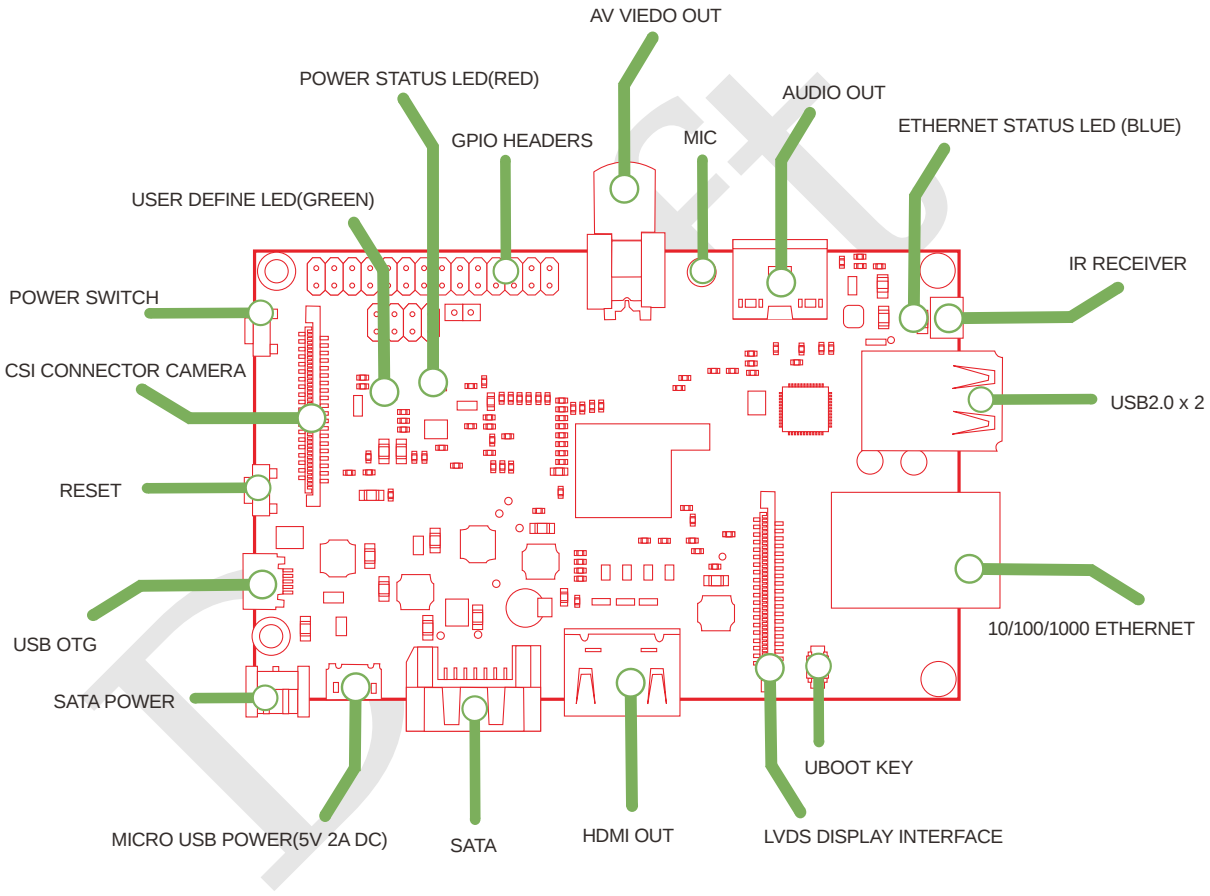
BPi 123

Using Banana Pi



Author:
Banana Pi Community

Thanks to:
Rasperry Pi Community

Contents

1 Getting Started **ii**
Getting Started with BPi ii

A Colophon **vi**
Software used in creating this book vi
Install TEXLive Environment in Ubuntu 12.04 vi
Install TEXLive Environment in Lbuntu 14.04 vii
Ubuntu: find Perl package vii
Book creation flowchart vii
Checking out book source ix
Contributors ix
License and copyright ix

B Bibliography **x**

C Index **xii**

List of Figures

1.1 SoC Computer board iii

A.1 Book creation flow chart viii

List of Tables

List of Code Examples

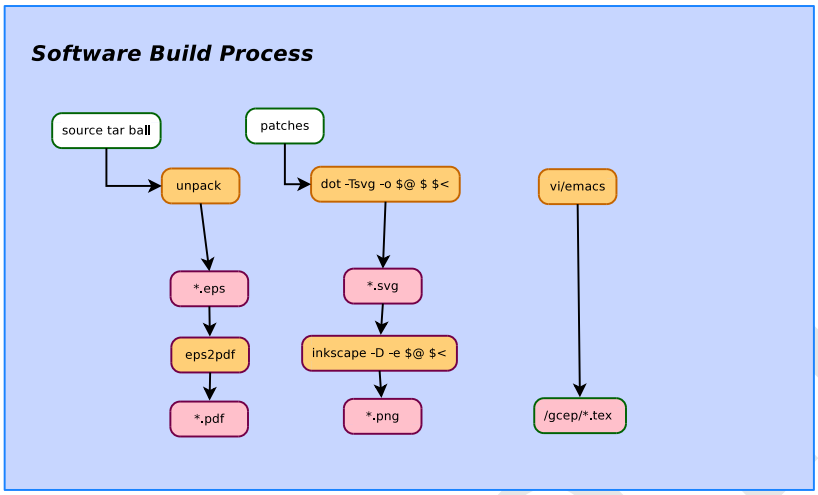
List of Exercises

1 Getting Started

Getting Started with BPi

Inspired and encouraged by success of Raspberry Pi, Banana Pi is another attemtp to create a small yet powerful computer board. TBC.

Figure 1.1. SoC Computer board



Using Unix dd command to flash Lbunutu image

1. As shown in following log, Lubuntu 14.04 version 3.0 got written into /dev/sdc.

Start of code

```
root@bpi01:/pub# dd bs=4M if=/pub/Lubuntu_1404_For_BananaPi_v3_0.img  of=/dev/sdc
120+0 records in
120+0 records out
503316480 bytes (503 MB) copied, 45.0463 s, 11.2 MB/s
875+0 records in
875+0 records out
3670016000 bytes (3.7 GB) copied, 373.487 s, 9.8 MB/s
root@bpi01:/pub#
```

End of code

2. Use sb tool to test build hello-2.7

```
TJYANG-MBA:~ tjyang\$ sb -

TJYANG-MBA:~ tjyang\$ tail -1 ~/.bashrc
```

3. sbutils -version

```
tjyang@tj1210:~/gcep$ which sbutils
tjyang@tj1210:~/gcep$
```

A Colophon

This work was created with XeLaTeX. The main text is set in the Google Droid fonts. All typewriter text is typeset in DejaVu Mono. 1.click dash home, search for ”language support” 2.click ”install/remove language” and add Chinese 3.click dash home, search for ”keyboard input method” 4.under ”input method”,add Chinese input method

Software used in creating this book

Pictorial materials are created using like Gimp, Gimp and InkScape. Publishing sofware is and CJK,中文 LaTex. The prgamming languages used in this are Go,Bash,Python.

- GNU make `http://www.gnu.org/software/make/` GNU Make is used to automate the dependency and sequence of different tools when making this LaTeXbook.
- Dia `http://dia-installer.de` Dia is used to create the network digram used in this book.
- Gimp `http://www.mikespook.com/learning-go/>`
- InkScape `http://www.mikespook.com/learning-go/>`
- xelatex `http://www.mikespook.com/learning-go/>`
- Go `http://www.mikespook.com/learning-go/>`
- Bash `http://www.mikespook.com/learning-go/>`
- Python `http://www.mikespook.com/learning-go/>`
- Perl `http://www.mikespook.com/learning-go/>`

Install TeXLive Environment in Ubuntu 12.04

```
for i in \
dia graphiz gimp inkscape gnumeric \
ttf-droid ttf-dejavu ttf-sazanami-gothic \
ttf-arphic-ukai  texlive-full \
latex-cjk-xcjk git-core make \
;do
sudo apt-get install $i -y;
done
```

Install TEXLive Environment in Lbuntu 14.04

texlive-2013 is used in Lbuntu-14.04.

Start of code

```
for i in \
dia graphiz gimp \
inkscape  gnumeric \
ttf-droid ttf-dejavu ttf-sazanami-gothic ttf-arphic-ukai \
texlive-lang-cjk \
texlive-fonts-recommended texlive-extra-utils texlive-xetex
texlive-latex-extra texlive-latex-recommended \
texlive-metapost-doc texlive-metapost latex-cjk-all  git-core make lmodern pgf
do
sudo apt-get install -y $i
done
```

End of code

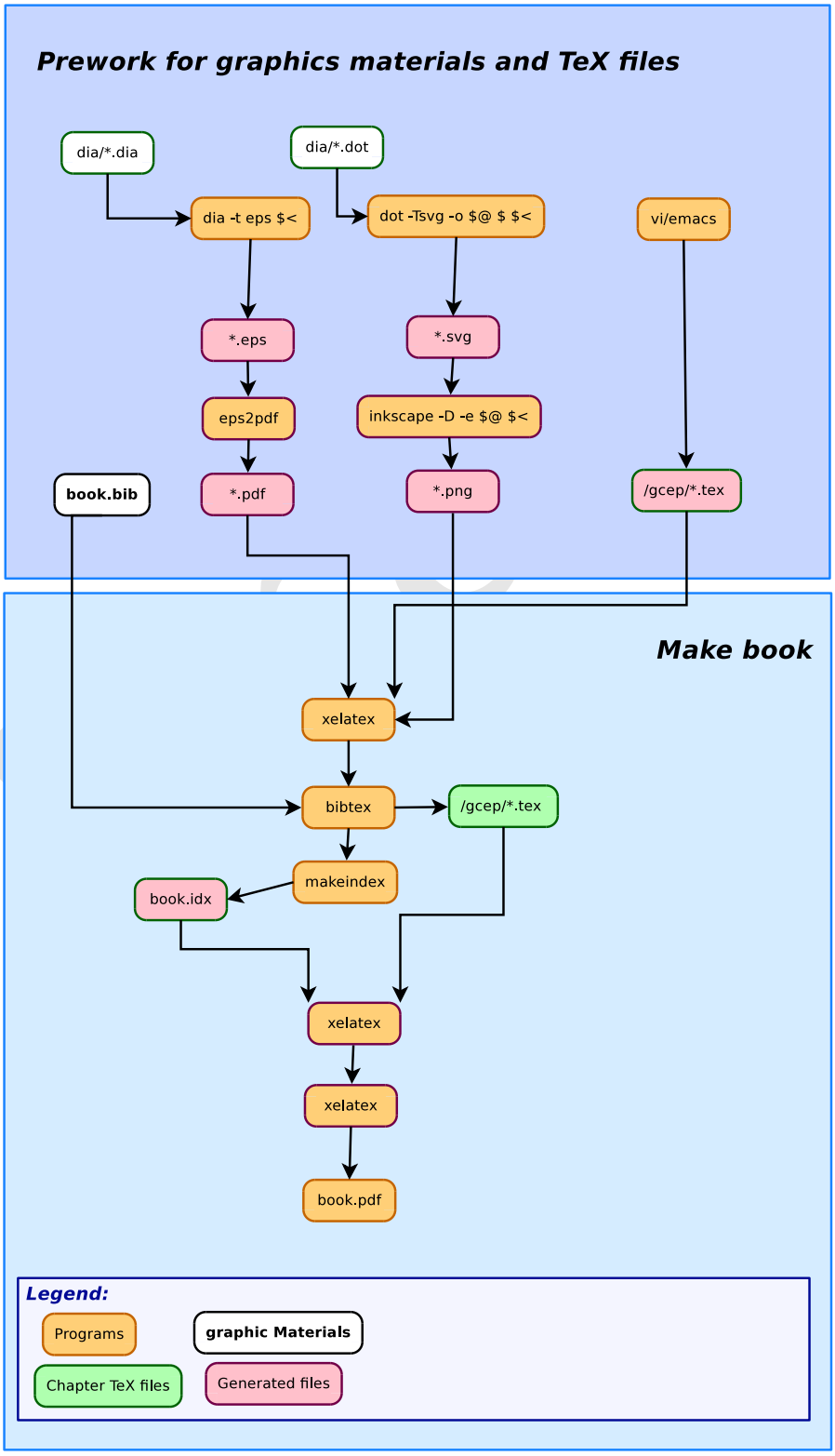
Ubuntu: find Perl package

```
tjyang@640m:~\$ apt-cache search perl XML::Simple
libxml-simple-perl - Perl module for reading and writing XML
libdns-zoneparse-perl - Perl extension for parsing and manipulating DNS Zone Files
libgtk2-gladexml-simple-perl - clean object-oriented perl interface to Gtk2::GladeXML
libtemplate-plugin-xml-perl - XML plugins for the Template Toolkit
libtest-xml-simple-perl - Perl testing framework for XML data
libxml-libxml-simple-perl - Perl module that uses the XML::LibXML parser for XML structures
libxml-simpleobject-enhanced-perl - Perl module which enhances libxml-simpleobject-perl
libxml-simpleobject-perl - Objectoriented Perl interface to a parsed XML::Parser tree
ruby-xml-simple - Simple Ruby API for reading and writing XML
tjyang@640m:~\$
```

Book creation flowchart

The following people have helped to make this book what it is today.

Figure A.1. Book creation flow chart



Checking out book source

This book is hosted on github.com. Following is the procedure to check out and request a pull request for merging modification from you local git repository.

- Get github account if not already done so.
- Initiate a fork from github.com/tjyang/bananapi.

```
tjyang@640m:~$ cat .netrc
machine code.google.com login gname@gmail.com password XXXXXXX
tjyang@640m:~$
```

- check out your forked bananapi src.

```
_____________________________ Start of code _____________________________

tjyang@640m:~$ git clone git@github.com:tjyang/bananapi.git
tjyang@640m:~$

_____________________________ End of code _____________________________
```

- Commit your local changes and push to your github .
- Send out a pull request.

Contributors

The following people have helped to make this book what it is today.

- T.J. Yang <tjyang2001@gmail.com>.

Help with proof reading, checking exercises and text improvements (no particular order and either real name or an alias): *T.J. Yang*

The following people provided smaller improvements, like nits, typos and other tweaks: *Daniele Pala*.

T.J. Yang

T.J. Yang is interested about small computer like RPi and BPi.

License and copyright

B Bibliography

[1] lemaker. Lemaker in china. http://www.lemaker.org, 2010.

[2] Leo Liu. Type chinese in tex compiled with latex. http://tex.stackexchange.com/questions/107898/type-chinese-in-tex-compiled-with-latex, 2010.

C Index

Bash, vi
BPi, ii, ix

CJK, vi

Dia, vi

Go, vi
graphic tools, vi
    Gimp, vi
    InkScape, vi

Python, vi

RPi, ix

中文 LaTex, vi

This page is intentionally left blank.