Narcissus

Welcome!

This is an online tool to create so called 'rootfs' images for your favourite device. This page will guide through the basic options and will close to let you select the additional packages you want.

Base settings:

Select the machine you want to build your rootfs image for:

beagleboard ▼

Choose your image name.

This is used in the filename offered for download, makes it easier to distinguish between rootfs images after downloading.

beagle_tony

Choose the complexity of the options below.

simple will hide the options most users don't need to care about and *advanced* will give you lots of options to fiddle with.

advanced ▼

Advanced settings:

Select the release you want to base your rootfs image on.

The 'stable' option will give you a working system, but will not have the latest versions of packages. The 'unstable' option will give you access to all the latest packages the developers have uploaded, but is known to break every now and then. The 'next' option will give you the bleeding edge, but it's incomplete and only intended for angstrom developers

2011.03 ▼

Base system

Each entry down is a superset of the one above it. Busybox will give you only busybox, usefull for e.g. small ramdisks. Task-boot will give you the minimal set of drivers and packages you need to boot. Task-base will give you drivers for non-essential features of your system, e.g. bluetooth. Options below that will include even more drivers for a smoother experience with USB based devices.

- ○ bare bones (busybox)
- ○ small (task-boot)
- ○ regular (task-base)
- ◉ extended (task-base-extended)

Select the /dev manager.

Udev is generally the best choice, only select mdev for fixed-function devices and if you know what you're doing. Kernel will use the in-kernel devtmpfs feature present in 2.6.32 and newer

◉ udev ○ mdev ○ kernel

Select the init manager.

sysvinit is generally the best choice, systemd is the future, but experimental and none is for people who are absolutely sure of what they are doing

◉ sysvinit ○ systemd ○ none

Select the type of image you want.

The 'tar.gz' option is the most versatile choice since it can be easily converted to other formats later on. The practicality of the other formats depends too much on the device in question to give meaningfull advice here, so we leave that up to you :)

◉ tar.gz ○ OMAP SD image ○ OMAP SD+UBI image ○ ext2 ○ ubifs ○ jffs2

Software manifest.

yes will generate a software manifest with e.g. versions and licenses of the installed packages *no* will not generate such a manifest.

no ▼

SDK type

Select the kind of SDK you want. The options are:

- *none* for no SDK
- *toolchain* for simple toolchain with compiler, C library, binutils and not much else
- *full SDK for generated filesystem*, which as the name implies, gives you an SDK that contains all the libraries and headers for the things you selected to be put in the filesystem narcissus will generate.

Note that these are for **linux** hosts, so you need a linux computer or virtual machine to use these.

full SDK for generated filesystem ▼

SDK hostsystem

Select the host system the SDK is going to run on, currenly only Intel (and AMD, VIA, etc) architectures are supported. If you are unsure, choose the 32bit option.

64bit Intel ▼

User environment selection:

Console gives you a bare commandline interface where you can install a GUI into later on. X11 will install an X-window environment and present you with a Desktop Environment option below. Opie is a qt/e 2.0 based environment for PDA style devices.

Console only ▼

Additional packages selection:

Select additional packages below, click the ✚ icon to expand or collaps a section. When you're done, click the 'build me!' button.

✚ Development packages:

- ☐ Python
- ☐ Perl
- ☐ Mono (C#, .NET)
- ☑ Toolchain
- ☐ OProfile
- ☑ GDB
- ☐ Busybox replacements

- [x] Native (on-target) SDK
- [ ] Native (on-target) Qt Embedded SDK
- [ ] Native (on-target) Qt X11 SDK Development
- [x] Native (on-target) u-boot mkimage
- [x] Boost development headers and libraries
- [ ] Beagleboard GSoC 2010 XBMC build dependencies
- [ ] OpenCV headers and libs
- [ ] Native (on-target) GNUradio SDK

Additional console packages:

- [ ] Aircrack-ng
- [x] All kernel modules
- [ ] Angstrom PSplash Screen
- [ ] Alsa utils
- [x] Bluez
- [ ] cpufrequtils
- [ ] cwiid
- [ ] DOS FAT Filesystem Utils
- [ ] DVB-utils
- [ ] EXT2 Filesystem Utils
- [ ] FFmpeg
- [ ] Flite
- [x] Gdbserver
- [ ] Gnuradio
- [x] Git
- [ ] GSM0710muxd
- [ ] Gstreamer
- [ ] Gstreamer GLES Plugin
- [x] htop
- [ ] I2C-tools
- [ ] JamVM
- [ ] Julius speech recognizer
- [ ] Kismet
- [ ] LCD4Linux
- [ ] LIRC
- [ ] lsof
- [ ] Mediatomb
- [ ] memtester
- [ ] MPlayer
- [ ] Mythtv backend
- [ ] Nano Editor
- [ ] Octave
- [ ] OpenCV
- [ ] Powertop

- [ ] QT/e 4
- [ ] QT/e 4 Arora Browser
- [x] Screen
- [ ] Ettus Universal Hardware Driver
- [ ] Video Disc Recoder
- [ ] VIM

+ Network related packages:

- [ ] Apache
- [ ] Boa
- [ ] Cherokee
- [x] Dropbear SSH server
- [ ] Moblin connection manager
- [ ] Lighttpd
- [ ] Lighttpd with PHP5 support
- [x] NetworkManager
- [x] NetworkManager GUI applet
- [ ] Nmap
- [ ] Node Js Evented I/O
- [ ] NTP
- [ ] NTPclient
- [ ] NTPdate
- [ ] Rtorrent
- [ ] Samba
- [x] Wireless-tools

+ Java packages:
+ Platform specific packages:

Texas Instruments OMAP3x/AM3x family:

- [x] Bootloader Files (x-load/u-boot/scripts)
- [x] AM/OMAP benchmarks / system info
- [ ] Matrix GUI for QT/embedded
- [ ] Matrix GUI for QT/X11
- [ ] Matrix TUI
- [ ] OMAP Display Sub System (DSS) Documentation
- [ ] FFmpeg based Media Player (omapfbplay) with Display Sub-System Support
- [ ] FFmpeg based Media Player (omapfbplay) with Distributed CodecEngine cupport
- [x] MSP430 eZChronos Watch Development Kit Support Applications
- [ ] PICO DLP Projector Control
- [ ] PowerVR SGX drivers for OMAP3
- [ ] PowerVR SGX demos for framebuffer
- [ ] PowerVR SGX demos for X11
- [ ] PowerVR SGX gfxdriver plugin for QT/embedded
- [ ] PowerVR SGX gfxdriver plugin for QT/X11

- [ ] TI texture streaming demo for X11
- [ ] TI texture streaming demo for framebuffer
- [x] Quake 3 (GLES)

Texas Instruments OMAP3x/DaVinci/OMAPL family (using DSP):

- [ ] TI DSPLINK Example Applications
- [ ] TI Codec Engine Example Applications
- [ ] TI DMAI (Davinci/OMAP Multimedia Interface) Examples/Tests
- [ ] Texas Instruments Gstreamer plugins
- [ ] Julius demo for Texas Instruments
- [ ] TI SYSLINK Example Applications

Various demonstration configs:

- [x] Original beagleboard demo
- [x] Linuxtag 2010 beagleboard demo
- [ ] Beagleboard validation ramdisk
- [ ] Beagleboard validation base task
- [ ] Beagleboard validation E17 GUI task
- [ ] Beagleboard validation GUI extras
- [ ] Beagleboard validation GNOME image

Marvell XScale Family:

- [ ] PXA register utility

Build me!

Current configuration:
Machine: beagleboard
Image name: beagle_tony
Image type: tgz

Additional Packages:

abiword
alsa-utils
alsa-utils-aconnect
alsa-utils-alsaconf
alsa-utils-alsactl
alsa-utils-alsamixer
alsa-utils-amixer
alsa-utils-aplay
alsa-utils-aseqdump
alsa-utils-aseqnet
alsa-utils-iecset
alsa-utils-speakertest

am-benchmarks
am-sysinfo
angstrom-task-gnome
angstrom-uboot-scripts
arora
arora-e
bash-sh
bc-cube-fb
bc-cube-x11
bluez-utils
boost-dev
cpufrequtils
dosfstools
dropbear
e2fsprogs
e2fsprogs-mke2fs
epiphany
firefox
gdb
gdbserver
gecko-mediaplayer-firefox-hack
gedit
git
gnome-mplayer
gnumeric
gpe-scap
gst-plugin-gles
gstreamer-ti
htop
initscripts
kernel-modules
libgles-omap3
libgles-omap3-rawdemos
libgles-omap3-x11demos
libgles-omap3-x11wsegl
lsof
matrix-gui
matrix-tui
memtester
midori
mplayer
nano
network-manager-applet
networkmanager
networkmanager-openvpn

nodejs
ntpdate
omap-dss-doc
omapfbplay
picodlp-control
powertop
psplash-angstrom
qt-x11-qvfb
qt4-demos
qt4-embedded
qt4-embedded-demos
qt4-embedded-fonts
qt4-embedded-plugin-gfxdriver-gfxtransformed
qt4-embedded-plugin-gfxdriver-gfxvnc
qt4-embedded-plugin-imageformat-jpeg
qt4-embedded-plugin-imageformat-svg
qt4-plugin-imageformat-jpeg
qt4-plugin-imageformat-svg
qt4-x11-free-gles-dev
quake3-pandora-gles
screen
shadow
sysvinit
sysvinit-pidof
task-base-extended
task-beagleboard-demo
task-native-sdk
task-qte-toolchain-target
ti-codec-engine-examples
ti-dmai-apps
ti-dsplink-examples
ti-msp430-chronos-apps
u-boot
u-boot-mkimage
vim
wireless-tools
x-load

Patches are welcome for the narcissus sources