

Yocto Web Hob Stage I Wireframes

This document covers:

Dashboard

All Projects

Project Home

Builds

Build Dashboard

Build Tasks

Failed Task

Sstate Task

Configuration

Time

Package Information

Image Directory Structure

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Active Projects 1

[An Arbitrary Project Name](#)
Latest Build:
[dd-mm-yy hh:mm](#), core-image-base, qemux86, 6.4 MB
↓ [Download All Images](#)

A Different Project Name
Latest Build:
[dd-mm-yy hh:mm](#), core-image-base, qemux86 — *build failed*

A Different Project Name
Latest Build:
[dd-mm-yy hh:mm](#), core-image-base, qemux86, 6.4 MB
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A Different Project Name
Latest Build:
[dd-mm-yy hh:mm](#), core-image-base, qemux86, 6.4 MB
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A Different Project Name
Last Build:
[dd-mm-yy hh:mm](#), core-image-base, qemux86, 6.4 MB
↓ [Download All Images](#)

[All Projects](#) →

Recent Builds 2

 core-image-base, qemux86, 6.4 MB
An Arbitrary Project Name

[dd-mm-yy hh:mm](#), core-image-base, qemux86, 6.4 MB
An Arbitrary Project Name
0 Errors, 3 Warnings
↓ [Download All Images](#)

dd-mm-yy hh:mm, core-image-base, qemux86 — *build failed*
An Arbitrary Project Name
3 Errors, 3 Warnings

dd-mm-yy hh:mm, core-image-base, qemux86, 6.4 MB
An Arbitrary Project Name
0 Errors, 3 Warnings
↓ [Download All Images](#)

dd-mm-yy hh:mm, core-image-base, qemux86, 6.4 MB
An Arbitrary Project Name
0 Errors, 3 Warnings
↓ [Download All Images](#)

[All Builds](#) →

Recent Builds 3

The Dashboard page serves as the main page for Web Hob. It is intended to give an overview of the most recent activity.

1 Active Projects

List

A list of the projects (exact number TBD) which have the most recent activity, ordered by most recent activity. 'Activity' for this purpose means being edited, created, or having a build added. Project names should be linked to the Project page for that project. Each project entry also displays the most recent build for that project with the build completion timestamp linked to the build's dashboard. If a build is currently in progress, the timestamp is replaced with a dynamic progress bar. Failed builds should be highlighted (e.g. by appearing in red text).

2 Recent Builds

List

A list of the most recently run builds (exact number TBD) ordered by completion time (or by initiation time for in-progress builds). Failed builds should be highlighted (e.g. by appearing in red text). Each build's completion timestamp should be linked to the build's dashboard. If a build is currently in progress, the timestamp is replaced with a dynamic progress bar.

3 Download Images

Link

Link to an archive file (format TBD) containing all images generated by the build.

yocto WEB HOB [Dashboard](#) [Projects](#) [Builds](#) [Admin](#)

All Projects

1

New project:

[An Arbitrary Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86, 6.4 MB ↓ [Download All Images](#)

[A Different Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86 — *build failed*

[A Different Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86, 6.4 MB ↓ [Download All Images](#)

[A Different Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86, 6.4 MB ↓ [Download All Images](#)

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[A Different Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86 — *build failed*

[An Arbitrary Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86, 6.4 MB ↓ [Download All Images](#)

[An Arbitrary Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86, 6.4 MB ↓ [Download All Images](#)

[An Arbitrary Project Name](#)
Last Build: [dd-mm-yyyy hh:mm](#), core-image-base, qemu86, 6.4 MB ↓ [Download All Images](#)

A list of all projects defined in this instance of Web Hob.

1 New Project Form

Form

Creates a new project with the name the user supplies. Names must be unique within the instance of Web Hob. When the user submits the form, if a valid name (criteria TBD) is supplied the user is taken to the Project page for the new project, which will be empty until the user adds builds. If the user has not supplied a valid name, the field should be highlighted and an error message should appear. The form should use both client- and server-side validation.

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[All projects](#) → **An Arbitrary Project Name**

An Arbitrary Project Name

[Delete Project](#)

[Add Builds](#) [Remove Builds](#)

Completed	Base Image	Hardware	Size	Project	Comment
<input type="checkbox"/>	<div><div style="width: 50%;"></div></div> core-image-base	qemux86	?	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	—	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	—	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yyyy hh:mm core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet

← Previous 1 • 2 • 3 [Next](#) →

20 per page

An Arbitrary Project Name

Delete Project

add builds

Completed -

include package:

Include: Complete Failed Running

Completed	Base Image	Hardware	Size	Comment
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	—	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	—	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/> dd-mm-yyy hh:mm	core-image-base	qemux86	6.4 MB	Lorem ipsum dolor loquem sit amet

yocto WEB HOB [Dashboard](#) [Projects](#) [Builds](#) [Admin](#)

[All projects](#) → [An Arbitrary Project Name](#)

An Arbitrary Project Name

[Delete Project](#)

Delete Project

Are you sure you want to permanently delete the project 'An Arbitrary Project Name'?

Remove project builds from Web Hob

Delete all project files from disk

[Cancel](#) [Delete](#)

<input type="checkbox"/>	dd-mm-yy hh:mm	core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yy hh:mm	core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yy hh:mm	core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yy hh:mm	core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yy hh:mm	core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet
<input type="checkbox"/>	dd-mm-yy hh:mm	core-image-base	qemux86	6.4 MB	An Arbitrary Project Name	Lorem ipsum dolor loquem sit amet

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Main page for a project. Lists all builds which are part of the project.

1 Delete Project

Button

When clicked, causes the Delete Project overlay to appear, which in turn allows the user to remove the project from Web Hob.

2 Add Builds

Button

Causes the Add Builds overlay to appear when clicked. Users may also add builds via the command line, either using a command (e.g. `webhob --add <projectname> <buildname>`) or when they run the build using a switch (e.g. `--project <projectname>`).

3 Remove Builds

Button

Removes the selected builds from the project when clicked. Users may also use a command to remove builds (e.g. `webhob --remove <projectname> <buildname>`)

4 Builds Table

Table

A list of builds associated with the current project, ordered by completion time (initiation time for in-progress builds). Each row includes a tick box for selecting the build (e.g. to remove it from the project). The completion timestamp for each build should be linked to the build's dashboard. If a build is currently in progress, the timestamp is replaced with a dynamic progress bar. Failed builds should be highlighted (e.g. by appearing in red text).

5 Comment

Text

A build comment added by the user when they run the build.

6 Find Builds Form

Form

Form for finding builds to add to the project. For details on the individual form elements, see the All Builds page notes.

7 Add Builds List

Scrollable table

A list of builds matching the criteria in the Find Builds Form, ordered by completion time (or initiation time for in-progress builds). Initially, the list includes all builds known to Web Hob. Re-submitting the form re-populates the list with entries matching the updated form. Failed builds should be highlighted (e.g. by using red text). Tickboxes allow the user to select builds for addition to the project.

8 Remove Builds From Web Hob

Tick box

If selected, when the user clicks the 'delete' button all builds in the project will be removed from Web Hob. If builds are being used by another project, the user will receive a warning dialogue with a list of such builds to confirm they wish to remove them. Unticked by default.

8 Delete Project Files from Disk

Tick box

If selected, when the user clicks the 'delete' button all files associated with the project (including build data, images, etc.) are removed from the user's hard drive. Cannot be selected unless Remove Builds form Web Hob is also selected.

A list of all builds known to this instance of Web hob, in order of completion (initiation time for in-progress builds).

- 1 Add Build**
Form
Allows the user to add a build to Web Hob by entering the path to the build from root on the machine on which Web Hob is running.
- 2 Find Builds Form**
Form
A form for filtering the builds list. Changes to the form should affect the builds list as soon as the field the user has edited loses focus.
- 3 Text Search**
Text input
Allows the user to search for one or more strings in the base image, hardware, project name, and/or comment fields. After the user enters three characters, the string should be highlighted where it appears in the builds list. After the user enters five characters, a suggestion drop-down should appear below the input with suggested completions. Terms are concatenated with boolean AND unless separated by commas, in which case they are concatenated with boolean OR.
- 4 Date Range**
Drop-down + text fields
Allows the user to find builds before or after a date or between two dates. The second date field is greyed out by default, and is only enabled if the 'between' option is selected from the drop-down. The date fields should be validated client- and server-side as soon as the user moves focus out of the field. Fields with errors should be highlighted and an error message should appear.

- 5 Package Finder**
Drop-down + text field
Allows the user to find builds which include or exclude a particular package. The package name text may match only a part of the name of the package. After the package name field loses focus, the match should be performed and text indicating the number of matches should appear below the field. Hovering over the text should display a list of the package names matched.
- 6 Status Selector**
Tick boxes
Allow the user to select whether to display failed, successful, or in-progress builds or any combination thereof.

[All builds](#) → core-image-minimal-qemux86-20121101043454

core-image-minimal-qemux86-2012110104...

Summary ✓

Status: completed
Date: 01/12/2012 at 04:34:54
Image files: [ext3](#) (8.5 MB) | [tar.bz2](#) (2.5 MB)

Tasks

Tasks run: 1468
Errors: 0
Warnings: 0

Configuration

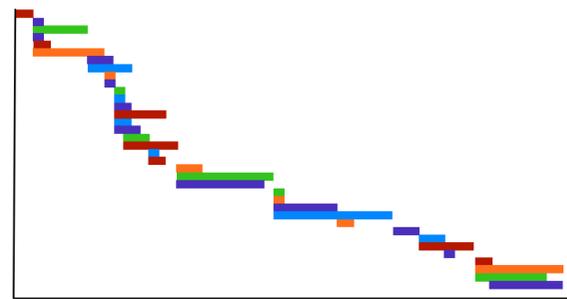
Machine: atom-pc
Base image: core-image-minimal
Layers:

- meta
- meta-yocto
- meta-yocto-bsp

master: 1b0c0f290290ff62fa7773379eb3898442d539c4

Build time

Total build time: 00:34:25



Package information

Packages included: 30
Total package size: 6.5 MB

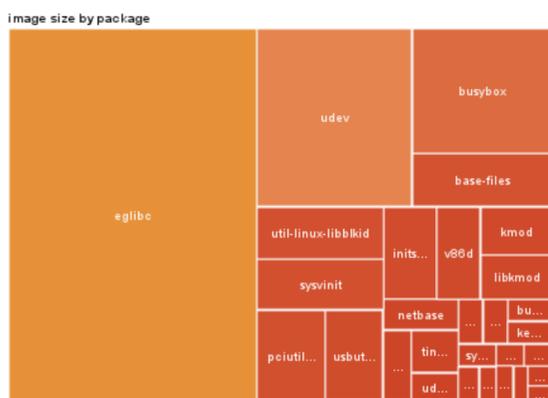
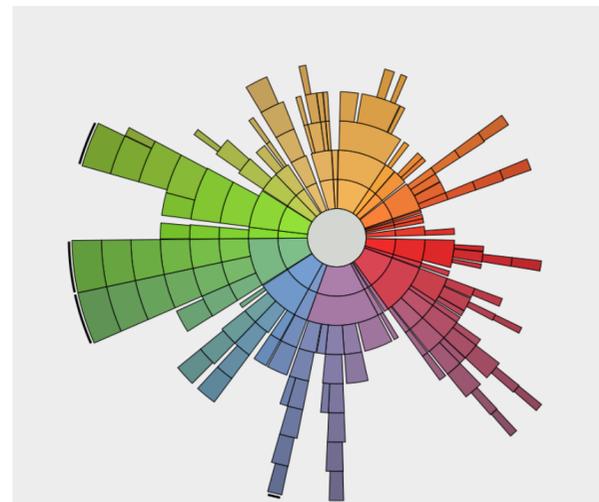
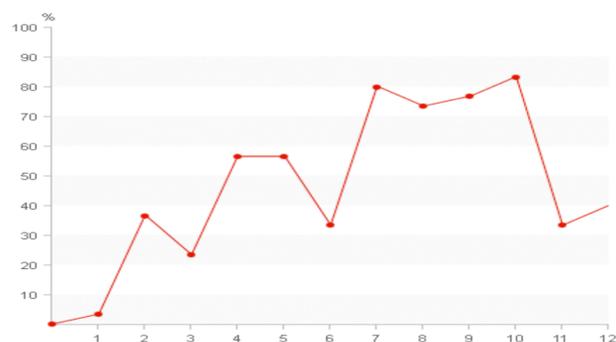


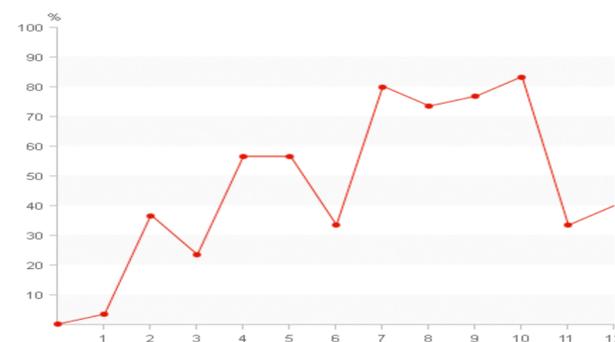
Image directory structure



CPU usage



Disk I/O



An overview page for a build.

- 1 Errors & Warnings**
Expandable text
Display any warnings or errors generated by the build in the fashion employed on the Builds page.

- 2 Build Time**
Graphic + link
Displays the total time for the build along with a Gantt chart showing how long individual tasks took. A minimum threshold should be used to keep the number of tasks displayed to something manageable in the space available. Rolling over a bar should display the task name, clicking the bar should take the user to the task page. Each bar is coloured according to the type of task, and there is a link to the Time page below the chart.

- 3 CPU**
Graphic + link
Displays the total CPU usage of the build, along with an appropriate graphical representation (TBD). A link to the CPU page appears below the graphic.

- 4 Disk I/O**
Graphic + link
As CPU.

- 5 Space**
Graphic + link
As CPU, save the link points to the Image Content page.

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → [tasks](#)

Tasks

1 **Filter:** **Show:** succeeded failed 2 previously built
 sstate succeeded sstate failed sstate missed

3 Task name ▼	Recipe	Status	Log file
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
4 cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	failed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_compile	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	succeeded	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	previously built	/the/path/to/the/log/file/for/this/item.log
cross-localedef-native-2.16r1:do_populate_sysroot	recipe-name	sstate succeed	/the/path/to/the/log/file/for/this/item.log

A list of tasks performed while running a build.

- 1 Filter**
Text box
Allows the user to filter the build list by either task name or recipe name. Operates like the 'find build' box on the builds list, save that it searches both task and recipe names.
- 2 Task Status Selector**
Check Boxes
Allows the user to select which task statuses to show. The list should update immediately when the user changes the state of a tick box.
- 3 Column Heading**
Text links + indicator graphic
Users may click column headings to sort the list by that column. They may reverse the sorting by clicking the heading again.
- 4 Failed Task**
Highlighted text
All failed tasks should be highlighted, e.g. with red text.

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → [tasks](#) → [cross-localedef-native-2.16r1:do_populate_sysroot](#)

cross-localedef-native-2.16r1:do_populate_sysroot

Status	failed	Time	<time>
Recipe	recipe-name	CPU	<CPU>
Type	python	Disk I/O	<Disk I/O>
Work directory	/directory/where/this/task/was/run	Overall space	<total disk>
Code	/path/to/some/bozotic/script-file.py	Hash	79054025255fb1a26e4bc422aef54eb4

Error: Quisque eget odio ac lectus vestibulum faucibus eget in metus. In pellentesque faucibus vestibulum. Nulla at nulla justo, eget.
/path/to/some/bozotic/script-file.py, line 566

▶ [Stack trace](#)

▼ [Code](#)

```

561 def incoming(host, port):
562     """Open specified port and return file-like object"""
563     sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
564     # set SOL_SOCKET.SO_REUSEADDR=1 to reuse the socket if
565     # needed later without waiting for timeout (e.g. after it is closed)
566     sock.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
567     sock.bind((host, port))
568     sock.listen(0) # do not queue connections
569     request, addr = sock.accept()
570     return request.makefile('r', 0)
571     # /-- network ---
    
```

▼ 2 warnings

Quisque eget odio ac lectus vestibulum faucibus eget in metus. In pellentesque faucibus vestibulum. Nulla at nulla justo, eget.
/path/to/some/bozotic/script-file.py, line 566

Quisque eget odio ac lectus vestibulum faucibus eget in metus. In pellentesque faucibus vestibulum. Nulla at nulla justo, eget.
/path/to/some/bozotic/script-file.py, line 566

Ancestor Tasks

▼ [cross-localedef-native-2.16r1:do_configure](#) 3 warnings, 1 error — failed

3

[/the/path/to/the/log/file/for/this/item.log](#)

▼ [cross-localedef-native2.16r1:do_compile](#) — sstate succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

2

▶ [cross-localedef-native-2.16r1:do_fetch](#) 2 warnings — succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [freetype-2.4.1.0-r0:do_configure](#) — previously built

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [mtools4.10.17-r1:do_populate_sysroot](#) — succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [parted-3.1-r0:do_install](#) — sstate succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [e2fsprogs-1.42.1-r4:do_compile](#) — sstate succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [syslinux-4.03r9:do_configure](#) — succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [cdrtools-native2.01-r2:do_compile](#) — previously built

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [parted-3.1-r0:do_install](#) — succeeded

[/the/path/to/the/log/file/for/this/item.log](#)

▶ [e2fsprogs-1.42.1-r4:do_compile](#) — previously built

[/the/path/to/the/log/file/for/this/item.log](#)

A task detail page for a failed build task.

1 Error Information

Text, links, optional code listing & stack trace
If a task has errors, the details of each error is displayed on the page. For all errors, the error text, line number, and file in which the error incurred are displayed. For python errors, the stack trace and a snippet of code (error line and five lines before and after) are also displayed.

2 Task Explorer

Tree control
A listing of tasks upon which the page task depends, arranged as a tree structure based on dependencies. Each task is listed along with status, number of errors, and number of warnings (if any). Clicking the triangle next to a task displays as children the tasks upon which the parent depends. Clicking the name of the task takes the user to the task's details page.

3 Link to Log File

Text Link
A link to the log file for the task.

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → [tasks](#) → **cross-localedef-native-2.16r1:do_compile**

cross-localedef-native-2.16r1:do_compile

Status	sstate success	Hash	79054025255fb1a26e4bc422aef54eb4
Recipe	recipe-name		
URL:	http://someserver.tld/share/sstate/		
Paths searched:	/path/searched/for/this/item /path/searched/for/this/item /path/searched/for/this/item /path/searched/for/this/item		
0 warnings			

Ancestor Tasks

- ▼ **cross-localedef-native-2.16r1:do_configure** 3 warnings, 1 error — failed [/the/path/to/the/log/file/for/this/item.log](#)
 - ▼ **cross-localedef-native2.16r1:d0_populate_sysroot** — sstate succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - cross-localedef-native-2.16r1:do_fetch** 2 warnings — succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **freetype-2.4.1.0-r0:do_configure** — previously built [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **mtools4.10.17-r1:do_populate_sysroot** — succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **parted-3.1-r0:do_install** — sstate succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **e2fsprogs-1.42.1-r4:do_compile** — sstate succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **syslinux-4.03r9:do_configure** — succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **cdrtools-native2.01-r2:do_compile** — previously built [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **parted-3.1-r0:do_install** — succeeded [/the/path/to/the/log/file/for/this/item.log](#)
 - ▶ **e2fsprogs-1.42.1-r4:do_compile** — previously built [/the/path/to/the/log/file/for/this/item.log](#)

Configuration

1

▼ Summary

Target system: i586-poky-linux

Machine: qemux86

Distro: poky

Distro version: 1.3+snapshot-20130114

Layers:

meta

meta-yocto

meta-yocto-bsp (master: 1b0c0f290290ff62fa7773379eb3898442d539c4)

2

▼ Key / Value pairs

Search key / value pairs

3

Key	Value	Description	Show in Summary
BB_NUMBER_THREADS	4	Parallelism option to control how much parallelism Bitbake should use. This option determines how many tasks BitBake should run in parallel. For a quad-core machine, BB_NUMBER_THREADS = "4" would be appropriate.	<input type="checkbox"/>
PARALLEL_MAKE	-j 4	Parallelism option to control how much parallelism Bitbake should use. This option controls how many processes make should run in parallel when running compile tasks. For a quad-core machine, PARALLEL_MAKE = "-j 4" would be appropriate.	<input type="checkbox"/>
MACHINE	qemux86	This sets the default machine to be qemux86 if no other machine is selected.	<input checked="" type="checkbox"/>
DL_DIR	\${TOPDIR}/downloads	Where to place downloads. During a first build the system will download many different source code tarballs from various upstream projects. This can take a while, particularly if your network connection is slow. These are all stored in DL_DIR. When wiping and rebuilding you can preserve this directory to speed up this part of subsequent builds. This directory is safe to share between multiple builds on the same machine too. The default is a downloads directory under TOPDIR which is the build directory.	<input type="checkbox"/>
SSTATE_DIR	\${TOPDIR}/sstate-cache	Where to place shared-state files. BitBake has the capability to accelerate builds based on previously built output. This is done using "shared state" files which can be thought of as cache objects and this option determines where those files are placed. You can wipe out TMPDIR leaving this directory intact and the build would regenerate from these files if no changes were made to the configuration. If changes were made to the configuration, only shared state files where the state was still valid would be used (done using checksums). The default is a sstate-cache directory under TOPDIR.	<input type="checkbox"/>
TMPDIR	\${TOPDIR}/tmp	Where to place the build output. This option specifies where the bulk of the building work should be done and where BitBake should place its temporary files and output. Keep in mind that this includes the extraction and compilation of many applications and the toolchain which can use Gigabytes of hard disk space. The default is a tmp directory under TOPDIR.	<input type="checkbox"/>
DISTRO	poky	Default policy config. The distribution setting controls which policy settings are used as defaults. The default value is fine for general Yocto project use, at least initially. Ultimately when creating custom policy, people will likely end up subclassing these defaults.	<input checked="" type="checkbox"/>
PACKAGE_CLASSES	package_rpm	Package Management configuration. This variable lists which packaging formats to enable. Multiple package backends can be enabled at once and the first item listed in the variable will be used to generate the root filesystems. Options are: - 'package_deb' for debian style deb files - 'package_ipk' for ipk files are used by opkg (a debian style embedded package manager) - 'package_rpm' for rpm style packages E.g.: PACKAGE_CLASSES ?= "package_rpm package_deb package_ipk" We default to rpm.	<input type="checkbox"/>

4

- 1 Summary**
Key configuration details.
The Summary can be expanded / collapsed, and its contents edited via the 'Show in Summary' column of the 'Key / value pairs' table (see 4)
- 2 Key / value pairs**
All key / value pairs set.
The key / value pairs section can be expanded / collapsed.
- 3 Search key / value pairs**
It filters the content of the table as user types.
- 4 Show in Summary**
Use this column to determine the content of the Summary section.

[All builds](#) → [core-image-minimal-qemu86-20121101043454](#) → **Time**

Total build time: 00:34:25

Time

1 Summary

Longest tasks:

- [do_compile qemu-native-1.3.0-r2](#)
- [do_rootfs](#)
- [do_compile pixman-native-1_0.28.2-r1](#)

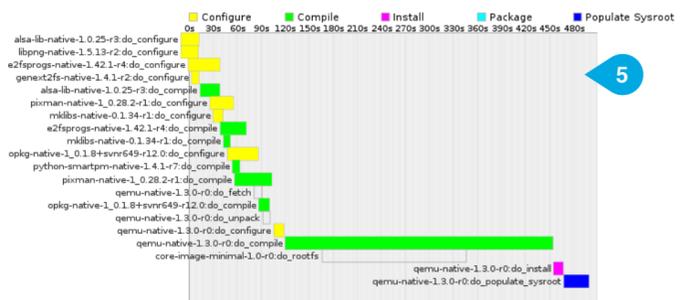
Longest recipes:

- qemu-native-1.3.0-r2
- 2 pixman-native-1_0.28.2-r1
- e2fsprogs-native-1.42.1-r4

3 Time per task

Search tasks

Recipe	Task name	Time
gettext-minimal-native-0.18.2-r0	do_fetch	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_unpack	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_patch	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_configure	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_compile	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_install	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_populate_sysroot	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_compile	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_install	XX:XX:XX
gmp-native-5.1.0-r1	do_fetch	XX:XX:XX
mpfr-native-3.1.1-r0	do_fetch	XX:XX:XX
mpfr-native-3.1.1-r0	do_unpack	XX:XX:XX
mpfr-native-3.1.1-r0	do_patch	XX:XX:XX
zlib-native-1.2.7-r0	do_fetch	XX:XX:XX
zlib-native-1.2.7-r0	do_unpack	XX:XX:XX
zlib-native-1.2.7-r0	do_patch	XX:XX:XX
Total build time		XX:XX:XX



[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → [Time](#)

Time

▼ Summary

Longest tasks:

- [do_compile qemu-native-1.3.0-r2](#)
- [do_rootfs](#)
- [do_compile pixman-native-1_0.28.2-r1](#)

Longest recipes:

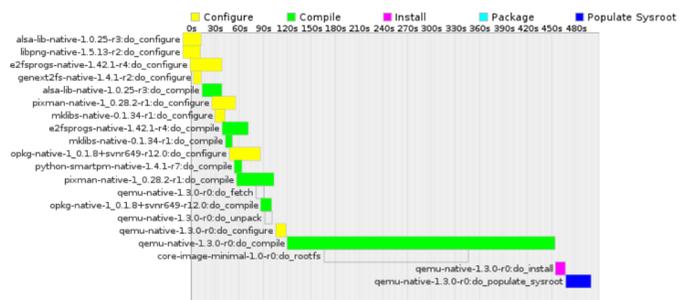
- qemu-native-1.3.0-r2
- pixman-native-1_0.28.2-r1
- e2fsprogs-native-1.42.1-r4

6 Select

Time per task

Time per recipe

	Task name	Time
gettext-minimal-native-0.18.2-r0	do_fetch	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_unpack	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_patch	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_configure	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_compile	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_install	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_populate_sysroot	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_compile	XX:XX:XX
gettext-minimal-native-0.18.2-r0	do_install	XX:XX:XX
gmp-native-5.1.0-r1	do_fetch	XX:XX:XX
mpfr-native-3.1.1-r0	do_fetch	XX:XX:XX
mpfr-native-3.1.1-r0	do_unpack	XX:XX:XX
mpfr-native-3.1.1-r0	do_patch	XX:XX:XX
zlib-native-1.2.7-r0	do_fetch	XX:XX:XX
zlib-native-1.2.7-r0	do_unpack	XX:XX:XX
zlib-native-1.2.7-r0	do_patch	XX:XX:XX
Total build time		XX:XX:XX



- 1 Summary**
Overview metrics.
The Summary can be expanded / collapsed.
- 2 Task name**
Linked to the corresponding task details page.
- 3 Chart data selection**
Use to choose what's represented by the chart (see 6).
- 4 Task table**
Columns are sortable.
Since a task is identified by a task name + a recipe name, each row on this table represents a single task. Rows must be clickable and link to the task details page.
- 5 Time chart**
We might review this chart to reduce the amount of information presented and improve readability.
We could eliminate the labels and display them on hover over the bars. We might consider eliminating the indentation, if we decide that showing task dependencies is not critical.
- 6 Chart data options**
Select what's represented by the chart.
The chart might present the build time broken down by task or by recipe. User can select her preferred view.

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → **Package information**

Packages included: 30
 Total package size: 6.5 MB

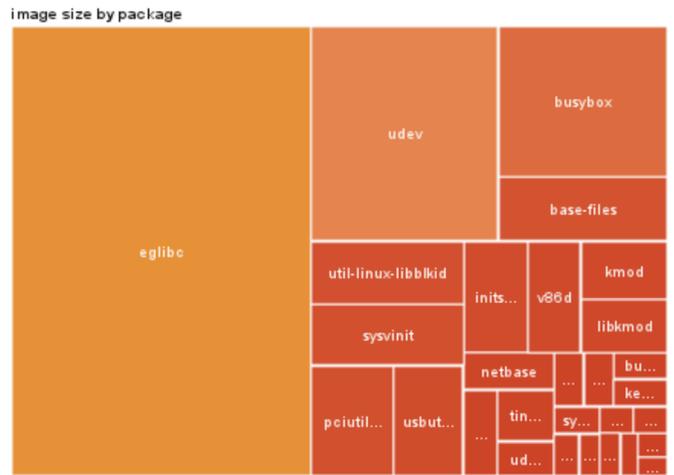
Package information

All packages

1 **Size** Dependencies

2

Package name	Recipe	Size
base-files	base-files-3.0.14-r72	244.0 KB
base-passwd	base-passwd-3.5.26-r0	0 B
busybox	busybox-1.20.2-r2	568.0 KB
busybox-hwclock	busybox-1.20.2-r2	16.0 KB
busybox-syslog	busybox-1.20.2-r2	20.0 KB
busybox-udhcpd	busybox-1.20.2-r2	32.0 KB
eglibc	eglibc-2.16-r15+svnr20393	3.0 MB
initscripts	initscripts-1.0.r137	160.0 KB
kernel-base	linux-yocto-3.4.11+git1+a201...0d9fa	0 KB
kernel-module-cfbcopyarea	linux-yocto-3.4.11+git1+a201...0d9fa	36.0 KB
kernel-module-cfbfillrect	linux-yocto-3.4.11+git1+a201...0d9fa	36.0 KB
kernel-module-cfbimgblt	linux-yocto-3.4.11+git1+a201...0d9fa	32.0 KB
kernel-module-uvesafb	linux-yocto-3.4.11+git1+a201...0d9fa	64.0 KB
kmod	kmod-9-r0.0	112.0 KB
libkmod	kmod-9-r0.0	104.0 KB
modutils-initscripts	modutils-initscripts-1.0-r6	16.0 KB
netbase	netbase-5.0-r0	76.0 KB
packagegroup-core-boot	packagegroup-core-boot-1.0-r10	0 B
pciutils-ids	pciutils-3.1.10-r0	204.0 KB
sysvinit	sysvinit-2.88dsf-r7	208.0 KB
sysvinit-inittab	sysvinit-inittab-2.88dsf-r9	12.0 KB
sysvinit-pidof	sysvinit-2.88dsf-r7	28.0 KB
tinylogin	tinylogin-1.4-r9	64.0 KB
udev	udev-164-r17	900.0 KB
udev-extraconf	udev-extraconf-1.0-r6	44.0 KB
update-alternatives-cworth	opkg-0.1.8+svnr633-r10.7	20.0 KB
update-modules	update-modules-1.0-r13	20.0 KB
update-rc.d	update-rc.d-0.7-r4	20.0 KB
usbutils-ids	usbutils-006-r0	172.0 KB
util-linux-libblkid	util-linux-2.22.1-r3	216.0 KB
util-linux-libuuid	util-linux-2.22.1-r3	24.0 KB
v86d	v86d-0.1.10-r1	132.0 KB
Included packages total size		6.5 MB



[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → **Package information**

Packages included: 30
 Total package size: 6.5 MB

Package information

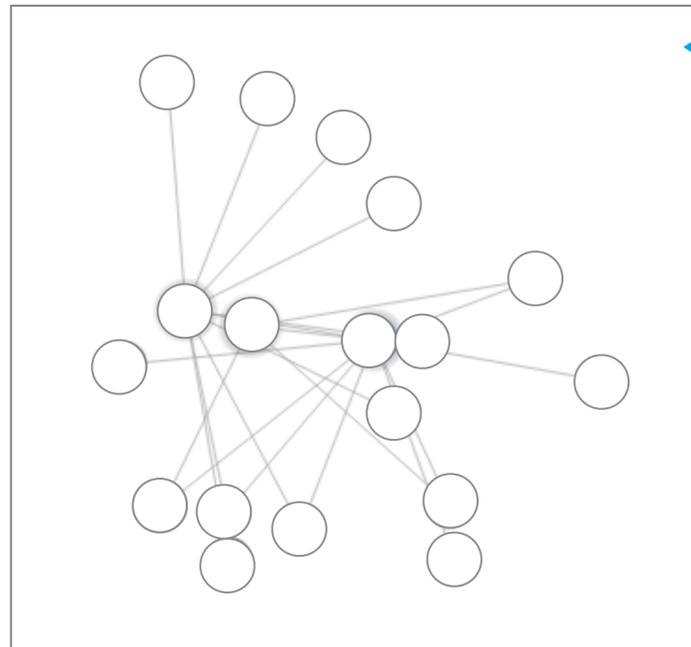
All packages

Size

Dependencies

5

Package name	Depends on	Recommends
base-files		
base-passwd		
busybox	<ul style="list-style-type: none"> ▪ update-rc.d ▪ eglibc 	<ul style="list-style-type: none"> ▪ busybox-syslog ▪ busybox-udhcpc
busybox-hwclock		
busybox-syslog	<ul style="list-style-type: none"> ▪ update-alternatives-cworth 	
busybox-udhcpc		
eglibc		
initscripts	<ul style="list-style-type: none"> ▪ update-alternatives-cworth 	
kernel-base		
kernel-module-cfbcopyarea	<ul style="list-style-type: none"> ▪ kernel-3.4.24-yocto-standard ▪ update-modules 	
kernel-module-cfbfillrect	<ul style="list-style-type: none"> ▪ kernel-3.4.24-yocto-standard ▪ update-modules 	
kernel-module-cfbimgblt	<ul style="list-style-type: none"> ▪ kernel-3.4.24-yocto-standard ▪ update-modules 	
kernel-module-uvesafb	<ul style="list-style-type: none"> ▪ kernel-3.4.24-yocto-standard ▪ kernel-module-cfbcopyarea ▪ kernel-module-cfbfillrect ▪ kernel-module-cfbimgblt ▪ update-modules 	
kmod	<ul style="list-style-type: none"> ▪ eglibc ▪ libkmod ▪ update-alternatives-cworth 	
libkmod	<ul style="list-style-type: none"> ▪ eglibc 	
modutils-initscripts	<ul style="list-style-type: none"> ▪ update-rc.d 	
netbase	<ul style="list-style-type: none"> ▪ update-rc.d 	
packagegroup-core-boot	<ul style="list-style-type: none"> ▪ base-files ▪ base-passwd ▪ busybox ▪ busybox-hwclock ▪ initscripts ▪ modutils-initscripts ▪ netbase ▪ sysvinit ▪ tinylogin ▪ udev ▪ update-alternatives-cworth ▪ v86d 	
pciutils-ids		
sysvinit	<ul style="list-style-type: none"> ▪ eglibc ▪ sysvinit-inittab ▪ sysvinit-pidof ▪ update-alternatives-cworth 	
sysvinit-inittab		
sysvinit-pidof	<ul style="list-style-type: none"> ▪ eglibc ▪ update-alternatives-cworth 	
tinylogin	<ul style="list-style-type: none"> ▪ eglibc ▪ update-alternatives-cworth 	



4

6

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → **Package information**

Packages included: 30
 Total package size: 6.5 MB

Package information

All packages

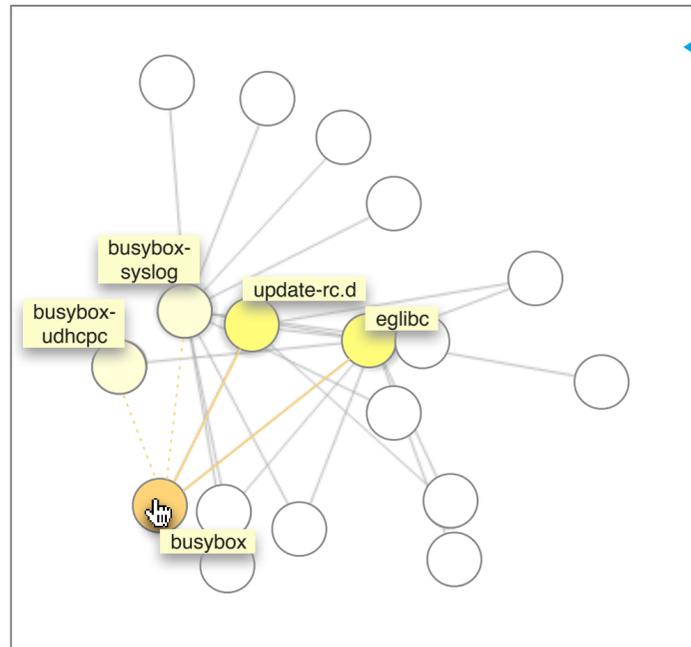
Size

Dependencies

7

Package name	Depends on	Recommends
base-files		
base-passwd		
busybox	<ul style="list-style-type: none"> update-rc.d eglibc 	<ul style="list-style-type: none"> busybox-syslog busybox-udhcp
busybox-hwclock		
busybox-syslog	<ul style="list-style-type: none"> update-alternatives-cworth 	
busybox-udhcp		
eglibc		
initscripts	<ul style="list-style-type: none"> update-alternatives-cworth 	
kernel-base		
kernel-module-cfbcopyarea	<ul style="list-style-type: none"> kernel-3.4.24-yocto-standard update-modules 	
kernel-module-cfbfillrect	<ul style="list-style-type: none"> kernel-3.4.24-yocto-standard update-modules 	
kernel-module-cfbimgblt	<ul style="list-style-type: none"> kernel-3.4.24-yocto-standard update-modules 	
kernel-module-uvesafb	<ul style="list-style-type: none"> kernel-3.4.24-yocto-standard kernel-module-cfbcopyarea kernel-module-cfbfillrect kernel-module-cfbimgblt update-modules 	
kmod	<ul style="list-style-type: none"> eglibc libkmod update-alternatives-cworth 	
libkmod	<ul style="list-style-type: none"> eglibc 	
modutils-initscripts	<ul style="list-style-type: none"> update-rc.d 	
netbase	<ul style="list-style-type: none"> update-rc.d 	
packagegroup-core-boot	<ul style="list-style-type: none"> base-files base-passwd busybox busybox-hwclock initscripts modutils-initscripts netbase sysvinit tinylogin udev update-alternatives-cworth v86d 	
pciutils-ids		
sysvinit	<ul style="list-style-type: none"> eglibc sysvinit-inittab sysvinit-pidof update-alternatives-cworth 	
sysvinit-inittab		
sysvinit-pidof	<ul style="list-style-type: none"> eglibc update-alternatives-cworth 	
tinylogin	<ul style="list-style-type: none"> eglibc update-alternatives-cworth 	

7



[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → Package information

Packages included: 30
Total package size: 6.5 MB

Package information

8 [All packages](#) → busybox ▼ 9

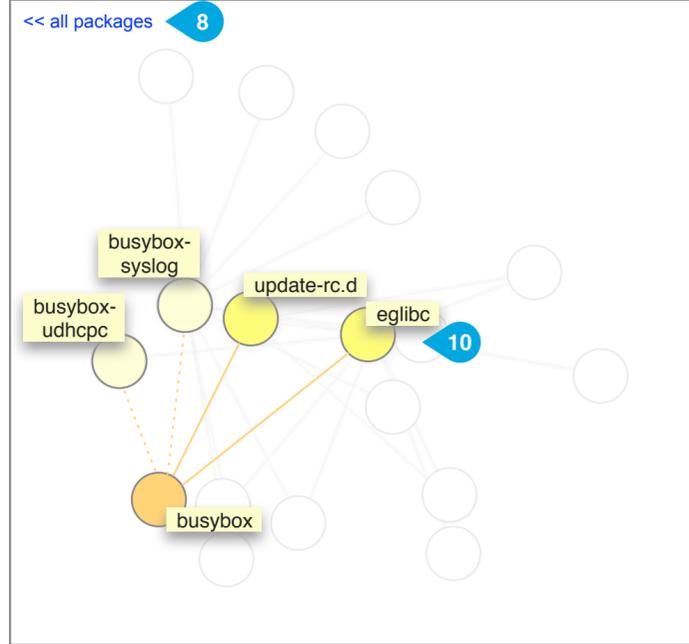
11 Size Dependencies

busybox depends on:

Package name	Recipe	Size
10 eglibc	eglibc-2.16-r15+svnr20393	3.0 MB
update-rc.d	update-rc.d-0.7-r4	20.0 KB

busybox recommends:

Package name	Recipe	Size
10 busybox-syslog	busybox-1.20.2-r2	20.0 KB
busybox-udhcp	busybox-1.20.2-r2	32.0 KB



[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → **Package information**

Packages included: 30
Total package size: 6.5 MB

Package information

[All packages](#) → **busybox** 12

Size

Dependencies

Tiny versions of many common UNIX utilities in a single small executable

Recipe: busybox-1.20.2-r4

Brought in by: [packagegroup-core-boot](#)

Depends on: [update-rc.d](#) | [eglibc](#)

Recommends: [busybox-syslog](#) | [busybox-udhcp](#)

Description

BusyBox combines tiny versions of many common UNIX utilities into a single small executable. It provides minimalist replacements for most of the utilities you usually find in GNU fileutils, shellutils, etc. The utilities in BusyBox generally have fewer options than their full-featured GNU cousins; however, the options that are included provide the expected functionality and behave very much like their GNU counterparts. BusyBox provides a fairly complete POSIX environment for any small or embedded system.

[BusyBox homepage](#) | [BusyBox bug tracker](#)

Size

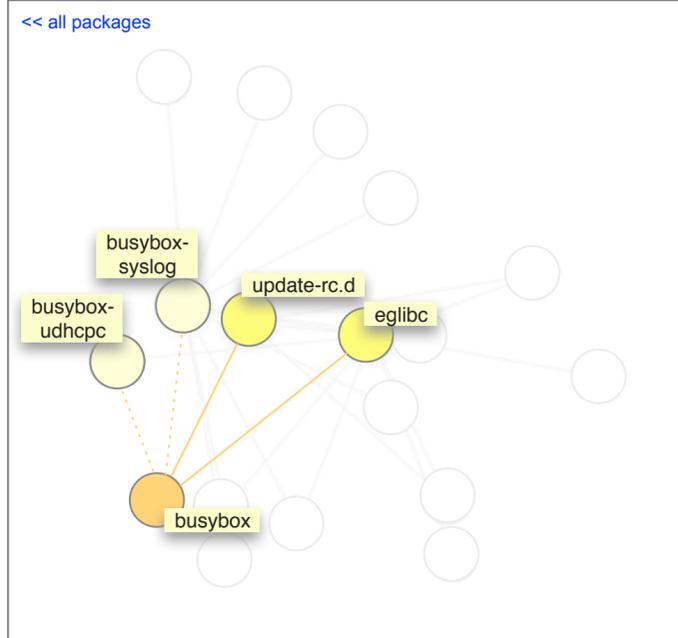
3.0 MB

20.0 KB

Size

20.0 KB

32.0 KB



yocto WEB HOB [Dashboard](#) [Projects](#) [Builds](#) [Admin](#)

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → Package information

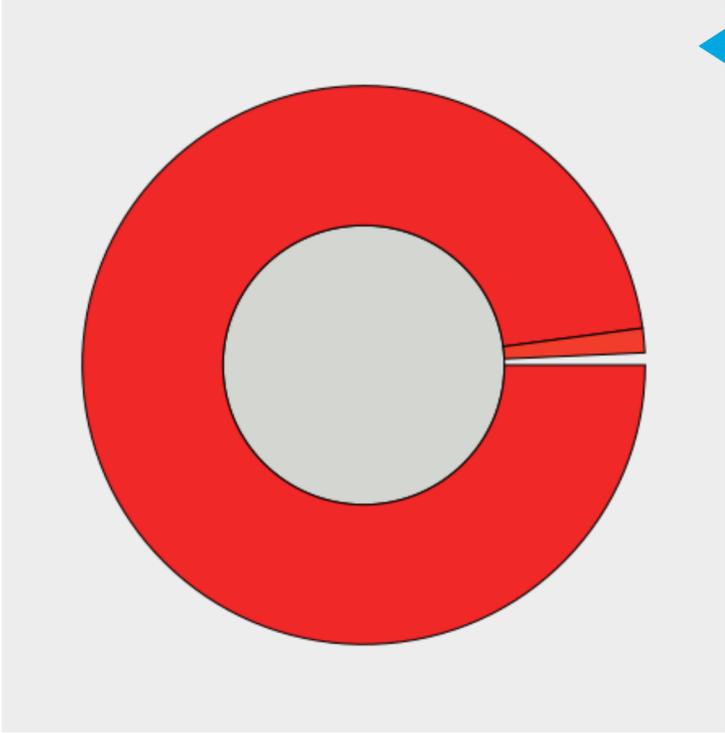
Package information

Packages included: 30
Total package size: 6.5 MB

[All packages](#) → **busybox** ▼

Size Dependencies

Name	Size
▶ bin	569.3 KB
▶ etc	8.2 KB



13 14 15 16

- 1 'Size' tab**
Shows information on included package size. It is the tab selected by default.
- 2 Packages table - Size**
Lists all included packages to provide details of their size.
All 3 columns are sortable. Click on a package name to see detailed information about it.
- 3 Treemap**
Represents overall image size broken down per package.
The treemap is interactive: hover over any section to show full name and size of the package it represents. Click on any section to see detailed information about the package it represents.
- 4 'Dependencies' tab**
Shows information on dependency relationships between included packages.
- 5 Packages table - Dependencies**
Lists all included packages to provide details about their dependencies.
The table is sorted by package name. The 'Depends on' and 'Recommends' columns are not sortable, since their cells can list more than one package. Click on a package name in any column to see detailed information about it.
- 6 Network graph**
Graphical representation of package dependencies.
Should be zoomable and interactive (see 7).
- 7 Network graph interactivity**
The network graph responds to hover and click interactions.
Hover over a node to see the name of the package it represents and highlight its dependencies. Click a node to see detailed information about the package it represents.
- 8 Back to 'All packages'**
Click to go to the Dependencies tab for all packages.
- 9 Selected package information**
Click to display background information about the selected package (see 12).
- 10 Navigate to another package**
Click on a package name or a package node in the graph to see detailed information about another package.
- 11 Navigate to size details**
Select the 'Size' tab to view size information about the current package (i.e. busybox).
- 12 Selected package information**
See 9.
- 13 Package files**
Package file browser.
- 14 Sunburst diagram**
Represents the package file structure.
The diagram is interactive: hover over a segment to view details about the directory or file it represents. Click on a segment to drill down into the directory it represents (the package file browser should respond by expanding and highlighting the directory represented by the segment clicked). Zooming on the graph should expand / collapse the package file browser accordingly.
- 15 Back to 'All packages'**
Click to go to the Size tab for all packages.
- 16 Navigate to dependency details**
Select the 'Dependencies' tab to view dependency information for the current package (i.e. busybox).

[All builds](#) → [core-image-minimal-qemux86-20121101043454](#) → **Image Directory Structure**

Image files:

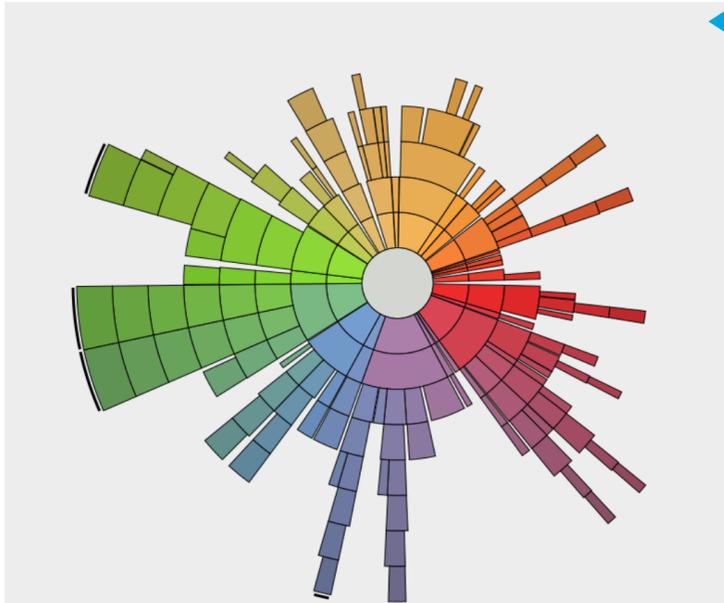
- [ext3](#) (8.5 MB)
- [tar.bz2](#) (2.5 MB)

Image directory structure

1

Name	Size
▶ bin	15 items
▶ boot	5 items
▶ dev	1 item
▶ etc	29 items
▶ lib	8 items
▶ media	30 items
▶ mnt	139 items
▶ proc	15 items
▶ sbin	22 items
▶ sys	17 items
▶ tmp	23 items
▶ usr	18 items
▶ var	12 items

2



1 Image files

Image file browser.

2 Sunburst diagram

Represents the image file structure.

The diagram is interactive: hover over a segment to view name and size of the directory or file it represents. Click on a segment to drill down into the directory it represents (the image file browser should respond by expanding and highlighting the directory represented by the segment clicked). Zooming on the graph should expand / collapse the image file browser accordingly.