KaNaPi

Co chcesz dziś zbudować?

Jacek Danecki && Kamil && Natalia

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Agenda

- Wstęp
- Gdzie zainstalować?
- Skąd pobrać?
- Jak zbudować?
- Jak testować?

Wstęp

- 5 lat KaNapi w 1 min.
- "Source based" dystrybucje Linuksa?

"Source based" dystrybucje Linuksa

- Arch, KaOS, Chakra
- Buildroot
- Crux
- Gentoo, Exherbo
- Gobolinux
- KaNaPi
- LFS, BLFS, AryaLinux, Nutyx
- Linuxbrew
- NixOS, GuixSD
- Open Embedded, Yocto
- Pisilinux, Solus
- Sorcerer, Lunar, Sorcemage
- Void linux

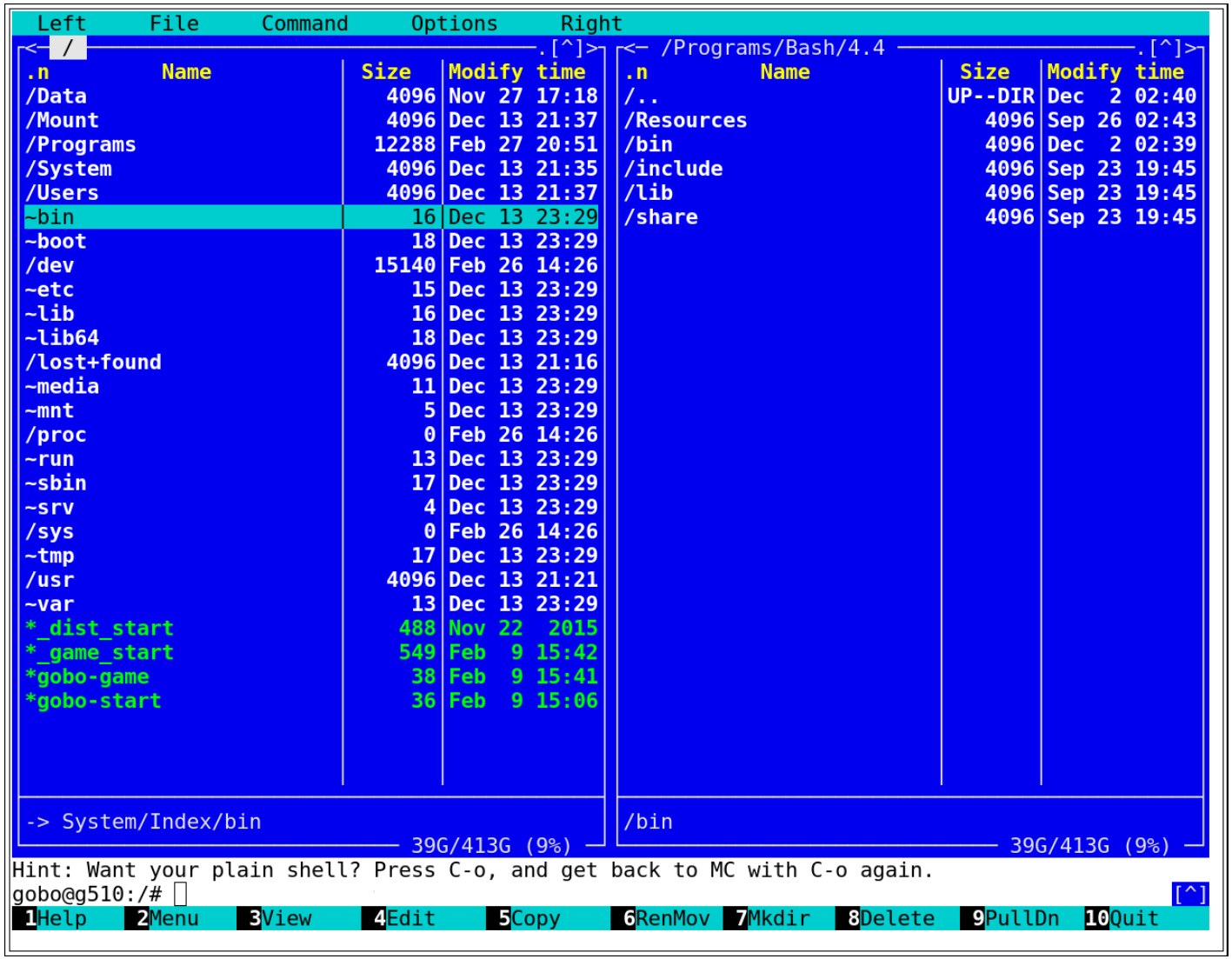
Układ katalogów

- FHS (Filesystem Hierarchy Standard)
  - Arch, KaOS, Chakra, Buildroot
  - Crux, Gentoo, Exherbo, LFS, BLFS, AryaLinux, Nutyx
  - Open Embedded, Yocto, Pisilinux, Solus
  - Sorcerer, Lunar, Sorcemage, Void linux
- Aplikacje w "specjalnych" katalogach
  - Gobolinux
  - NixOS, GuixSD
  - Linuxbrew
- Bedrock
- flatpak, appimage, 0install, snap, linstaller, limba, gclick2, cdepack, click
- docker
  - CoreOS
  - RancherOS

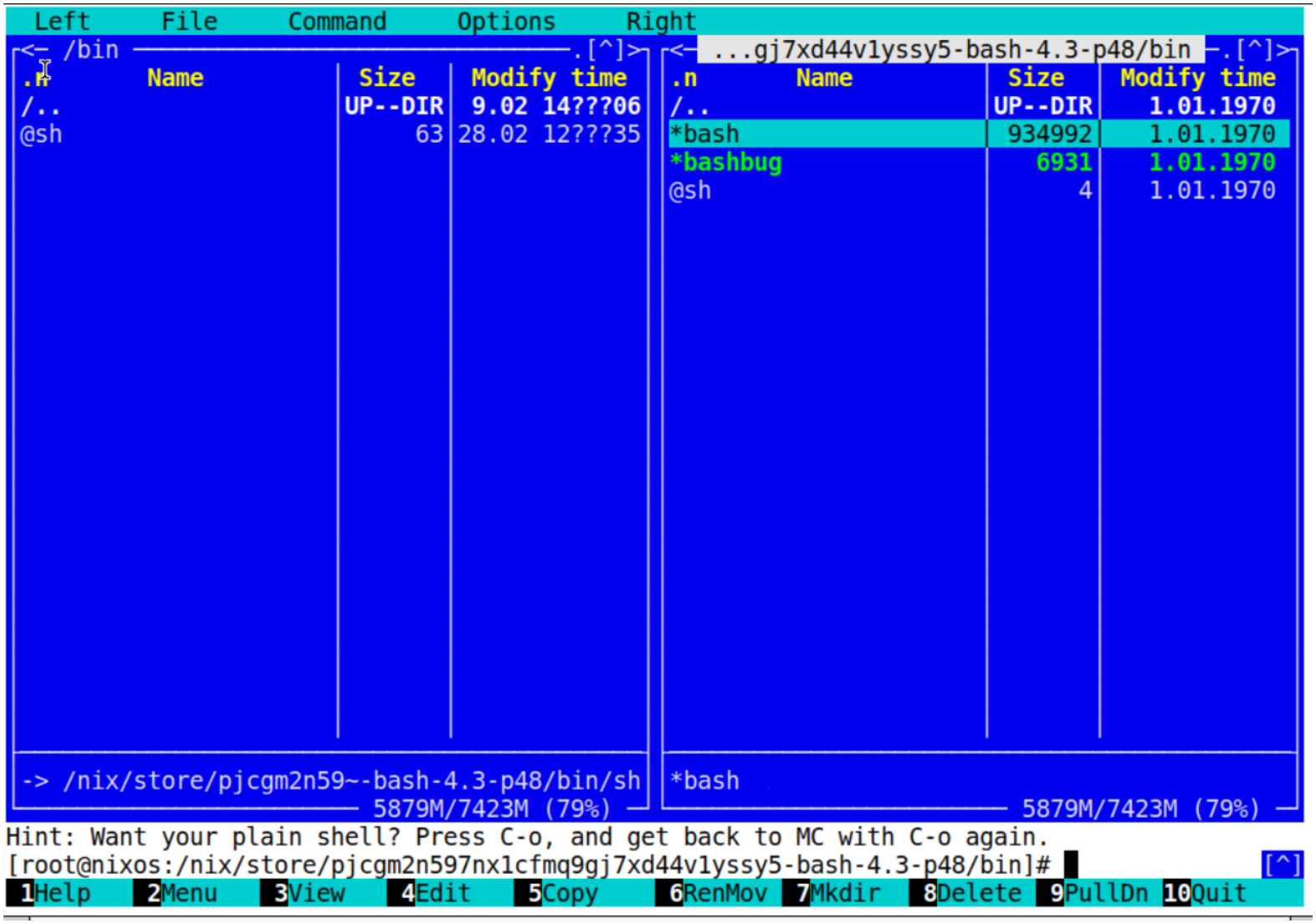
Układ katalogów (cont.)

- Slax
  - 01-core.sb 02-xorg.sb 03-kdeps.sb 04-kde.sb 05-kapps.sb 06-devel.sb 07-ffox.sb 59-Polish.sb
  - 01-core.sb: Squashfs filesystem $\rightarrow$ loop device
  - AUFS
  - https://www.slax.org/en/documentation.php

Gobolinux


Left File Command Options Right
< / .[^]>
.n Name Size Modify time
/Data 4096 Nov 27 17:18
/Mount 4096 Dec 13 21:37
/Programs 12288 Feb 27 20:51
/System 4096 Dec 13 21:35
/Users 4096 Dec 13 21:37
~bin 16 Dec 13 23:29
~boot 18 Dec 13 23:29
/dev 15140 Feb 26 14:26
~etc 15 Dec 13 23:29
~lib 16 Dec 13 23:29
~lib64 18 Dec 13 23:29
/lost+found 4096 Dec 13 21:16
~media 11 Dec 13 23:29
~mnt 5 Dec 13 23:29
/proc 0 Feb 26 14:26
~run 13 Dec 13 23:29
~sbin 17 Dec 13 23:29
~srv 4 Dec 13 23:29
/sys 0 Feb 26 14:26
~tmp 17 Dec 13 23:29
/usr 4096 Dec 13 21:21
~var 13 Dec 13 23:29
*_dist_start 488 Nov 22 2015
*_game_start 549 Feb 9 15:42
*gobo-game 38 Feb 9 15:41
*gobo-start 36 Feb 9 15:06
-> System/Index/bin
39G/413G (9%)
< /Programs/Bash/4.4 .[^]>
.n Name Size Modify time
/.. UP--DIR Dec 2 02:40
/Resources 4096 Sep 26 02:43
/bin 4096 Dec 2 02:39
/include 4096 Sep 23 19:45
/lib 4096 Sep 23 19:45
/share 4096 Sep 23 19:45
/bin
39G/413G (9%)
Hint: Want your plain shell? Press C-o, and get back to MC with C-o again.
gobo@g510:/#
[^]
1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

NixOS


Left File Command Options Right
<- /bin
.n Name Size Modify time
/.. UP--DIR 9.02 14??06
@sh 63 28.02 12??35
...gj7xd44v1yssy5-bash-4.3-p48/bin
.n Name Size Modify time
/.. UP--DIR 1.01.1970
*bash 934992 1.01.1970
*bashbug 6931 1.01.1970
@sh 4 1.01.1970
-> /nix/store/pjcgm2n59~-bash-4.3-p48/bin/sh
5879M/7423M (79%)
*bash
5879M/7423M (79%)
Hint: Want your plain shell? Press C-o, and get back to MC with C-o again.
[root@nixos:/nix/store/pjcgm2n597nx1cfmq9gj7xd44v1yssy5-bash-4.3-p48/bin]#
1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

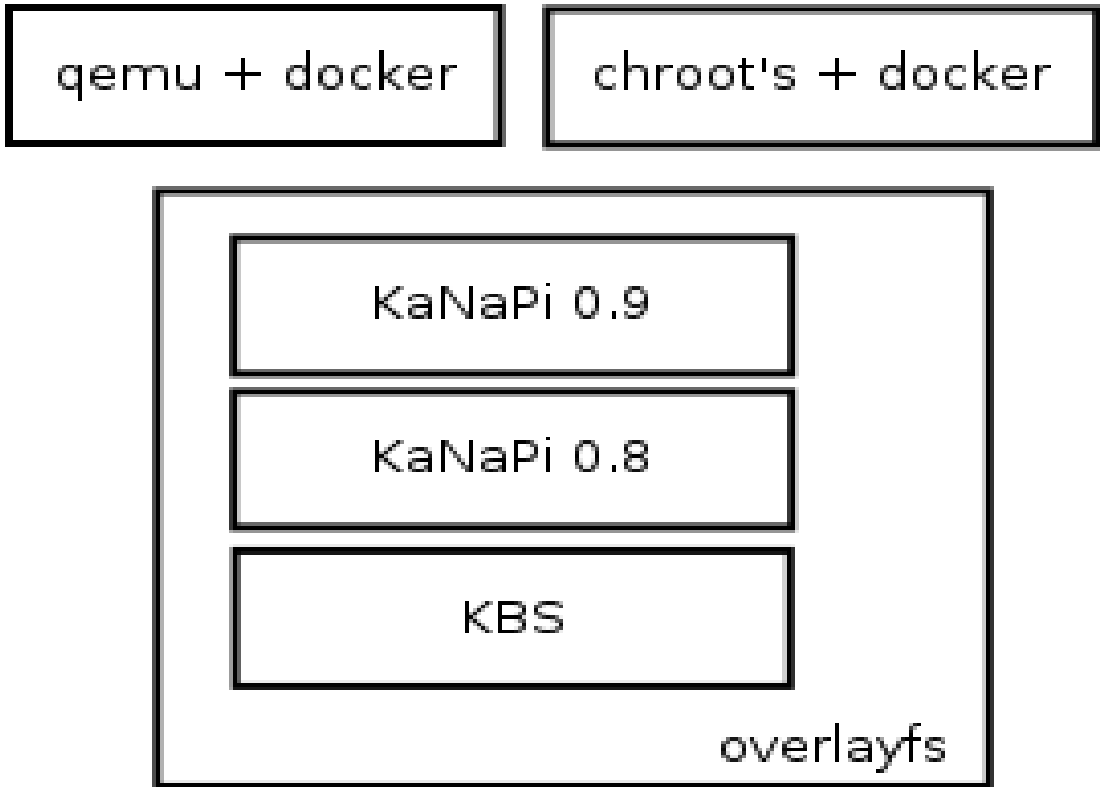
RancherOS

```
[root@rancher ~]# ps   | grep docker
    1 root     system-docker daemon --userland-proxy=false --restart=false \
       --storage-driver overlay --group root --graph /var/lib/system-docker \
       --host unix:///var/run/system-docker.sock --log-opt max-file=2 --log-opt \
       max-size=25m --config-file /etc/docker/system-docker.json --exec-root \
       /var/run/system-docker --pidfile /var/run/system-docker.pid

  463 root     {ros} docker-runc exec -- \
      ea06c5b9579d6367574454e1ccfda04a40dd5b4bb5195720464884331 1cbfe26 env \
      PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin \
      HOSTNAME=rancher HOME=/ ros docker-init daemon --log-opt max-file=2 \
      --log-opt max-size=25m --group docker --host unix:///var/run/docker.sock \
      --storage-driver overlay

  627 root     dockerd --log-opt max-file=2 --log-opt max-size=25m --group docker \
      --host unix:///var/run/docker.sock --storage-driver overlay

  645 root     docker-containerd -l \
      unix:///var/run/docker/libcontainerd/docker-containerd.sock \
      --shim docker-containerd-shim --metrics-interval=0 --start-timeout 2m \
      --state-dir /var/run/docker/libcontainerd/containerd \
      --runtime docker-runc
```

RancherOS

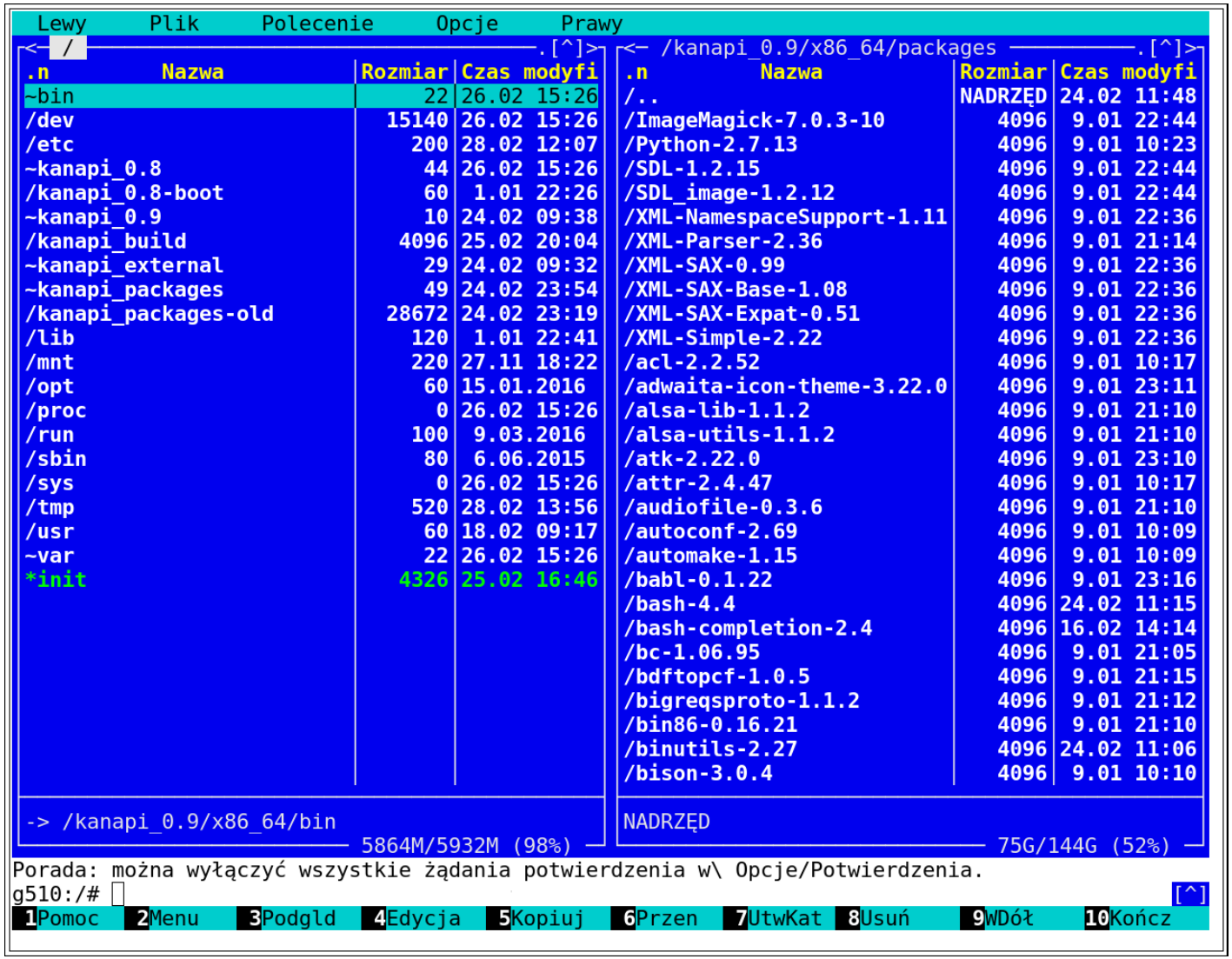
```
[root@rancher ~]# docker info
Containers: 1
 Running: 0
 Paused: 0
 Stopped: 1
Images: 1
Server Version: 1.12.6
Storage Driver: overlay
 Backing Filesystem: extfs
Logging Driver: json-file
Cgroup Driver: cgroupfs
Plugins:
 Volume: local
 Network: bridge null host overlay
Swarm: inactive
Runtimes: runc
Default Runtime: runc
Security Options: seccomp
Kernel Version: 4.9.9-rancher
Operating System: RancherOS v0.8.0-rc11
OSType: linux
Architecture: x86_64
CPUs: 1
Total Memory: 993.9 MiB
Name: rancher
ID: OLBF:7JGY:AWWZ:ELFF:URL2:UQWG:EKCS:H7Q
Docker Root Dir: /var/lib/docker
Debug Mode (client): false
Debug Mode (server): false
Registry: https://index.docker.io/v1/
Insecure Registries:
 127.0.0.0/8
```

KaNaPi



- chroot na montowanym FS dla dockera

KaNaPi - układ katalogów



KaNaPi - overlayFS

```
/dev/sda2 on /kanapi_packages-old type ext4 (ro,noatime,commit=60,data=ordered)

overlay on /kanapi_build/kanapi_local/kanapi_packages/merged type overlay (rw,relat
lowerdir=/kanapi_packages-old,
upperdir=/kanapi_build/kanapi_local/kanapi_packages/upper,

overlay on /kanapi_build/kanapi_local/kanapi_0.9/merged type overlay (rw,relatime,
lowerdir=/kanapi_packages-old/KANAPI_0.8/kanapi_0.8_rootfs,
upperdir=/kanapi_build/kanapi_local/kanapi_0.9/upper,

/kanapi_0.8 -> /kanapi_build/kanapi_local/kanapi_0.9/merged
/kanapi_0.9 -> kanapi_0.8
/kanapi_packages -> /kanapi_build/kanapi_local/kanapi_packages/merged
```

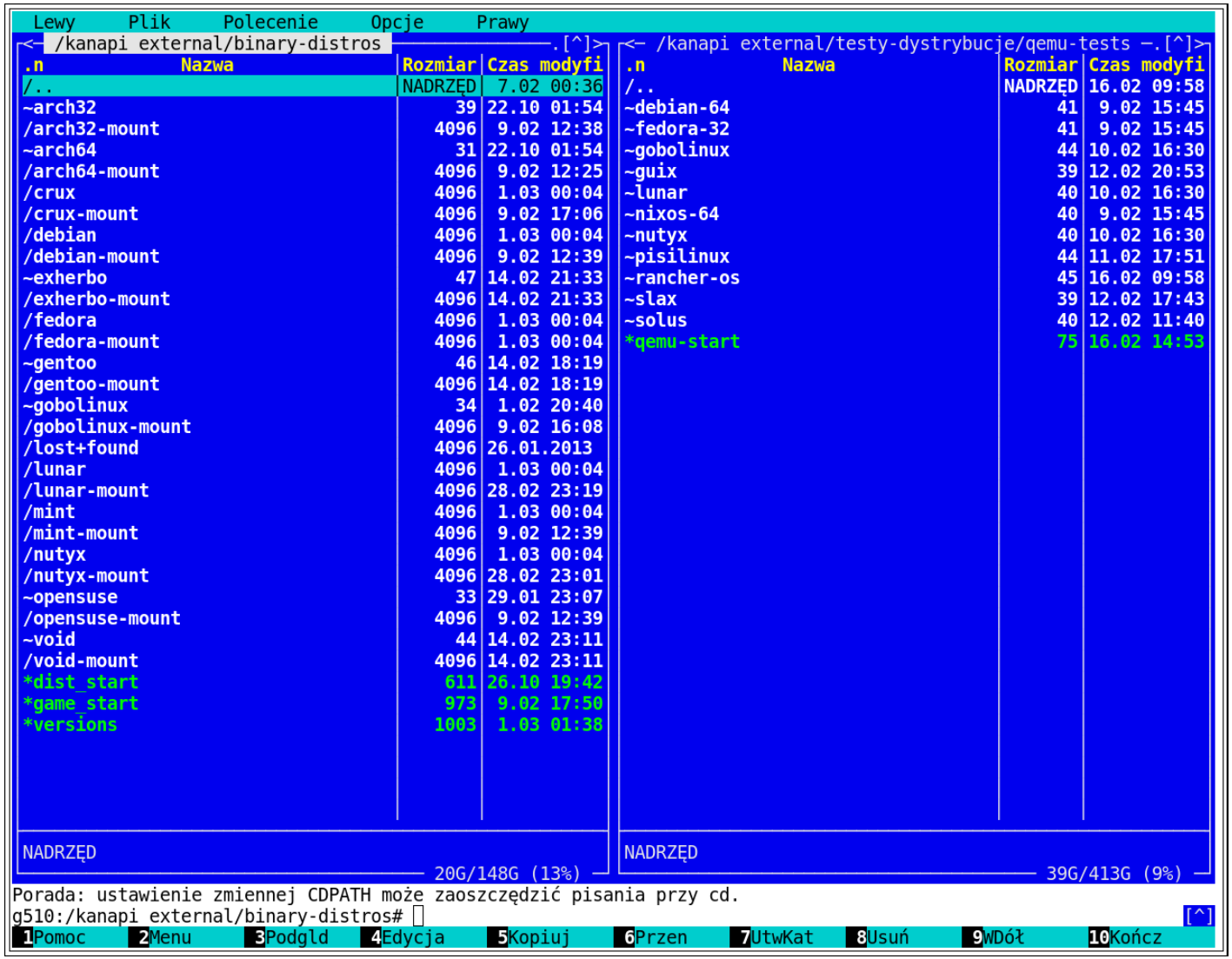
chroot/qemu

- chroot
  - distroname (nutyx)
  - distroname komenda (fedora lsb_release -a)
  - distroname-game komenda (arch64-game /bin/bash)
  - distroname-start (void-start)
  - dystrybucje: arch32, arch64, crux, debian, exherbo, fedora, gentoo, gobolinux, lunar mint, nutyx, opensuse, void
- qemu
  - distroname-qemu
  - dystrybucje: debian-64, fedora-32, gobolinux, guix, lunar, nixos-64, nutyx, pisilinux, rancher-os, slax, solus

Przykład: bash

```
g510:/kanapi_external/binary-distros# ./versions bash
----- debian -----
  Installed: 4.4-1
----- fedora ----
Version     : 4.3.43
Version     : 4.3.43
----- mint ----
  Installed: 4.3+linuxmint3
----- opensuse ----
Version        : 4.4-94.1
----- arch64    ---
core/bash 4.4.012-2 (base) [installed: 4.4.011-2]
----- crux      ---
Version:      4.3.48
----- exherbo      ---
    ::installed              4.4_p11 {:0}
    ::installed              2.4 {:0}
----- gobolinux      ---

: Loading lists... \
http://gobolinux.org/recipe-store/Bash--4.4-r1--recipe.tar.bz2
----- lunar      ---
  Installed Version: 4.4
----- nutyx      ---
Version        : 4.4
----- void      ---
pkgver: bash-4.3.048_3
g510:/kanapi_external/binary-distros#
```

KaNaPi - dystrybucje dodatkowe



Źródła oprogramowania

Źródło	Ilość pakietów
github.com	52 000 000
sourceforge.net	419 240
rubygems.org/gems	249 210
search.cpan.org	178 213
pypi.python.org/pypi	99 044
launchpad.net	39 890
kdeapps.com	6 277
osdn.net	6 157
www.ctan.org	5 273
savannah.gnu.org/savannah.nongnu.org	3 783

Katalogi oprogramowania

- http://directory.fsf.org/wiki/Main_Page 15 931 pakietów
- https://www.openhub.net/tags?names=linux 6 566 pakietów dla Linuksa
- https://www.apache.org/index.html#projects-list 300 projektów
- https://fossies.org

Inne pakiety

- https://libraries.io 2,145,475 pakietów

pm	Język	Ilość pakietów	pm	Język	Ilość pakietów
Go	Go	629 000	Emacs	Emacs Lisp	2 140
npm	JavaScript	264 000	Pub	Dart	1 910
Packagist	PHP	126 000	Cran	R	1 810
Rubygems	Ruby	81 500	WordPress	PHP	1 800
Maven	java	48 500	Sublime	Python	1 200
Pypi	Python	45 600	Carthage	Swift	1 030
Bower	Java Script	41 800	Dub	D	960
Clojars	Clojure	10 100	PlatforIO	C++	827
CPAN	Perl	8 820	Julia	Julia	758
Meteor	JavaScript	8 120	Haxelib	Haxe	755
Cargo	Rust	6 910	Elm	Elm	722
Hackage	Haskell	5 110	Homebrew	C	456
Atom	CoffeeScript	3 840			
SwiftPM	Swift	3 030			
Hex	Elixir	2 750			

- razem 1 299 448, vim (5400)

github.com - pakiety w wybranych językach

Język	**Ilość pakietów**
JavaScript	1 304 724
Java	1 089 660
Ruby	729 556
Python	637 109
PHP	544 431
CSS	390 648
C++	340 126
C	304 889
HTML	300 643
C#	272 306
Go	58 490

Dystrybucje Linuksa

Źródło	Ilość pakietów	Źródło	Ilość pakietów
Fedora	64 123	Soucemage	8 071
Arch	64 000	Void Linux	7 769
Mint	54 634	Pisilinux	6 000
Debian	43 000	Solus	5 478
OpenSuse	30 900	LinuxBrew	5 400
Gentoo	19 500	GuixSD	4 900
Gobolinux	12 000	Exherbo	4 500
NixOS	11 922	Crux	4 025

- Lunar: 3 477
- Nutyx: 1 500
- KaNaPi: 1 000
- www.freedesktop.org/software/appstream/docs

Ściąganie źródeł

- nazwa pakietu, URL format
- Gobolinux: Recipe

```
url="http://ftp.gnu.org/gnu/bash/bash-4.4.tar.gz"
```

- Arch: PKGBUILD

```
pkgname=bash
_basever=4.4
source=(https://ftp.gnu.org/gnu/bash/bash-$_basever.tar.gz{,.sig}
```

- KaNaPi: bash.kanapi

```
PACKAGE_NAME=bash
VER=4.4
URL="GNU"
EXT=tar.gz
```

- Exherbo: bash.exlib

```
%MY_PNV=${PNV%_p*}
%DOWNLOADS+=" ftp://ftp.cwru.edu/pub/${PN}/${MY_PNV}.tar.gz"
```

- mirrors

Ściąganie źródeł

- Lunar: DETAILS

```
MODULE=bash
VERSION=4.4
SOURCE=$MODULE-$VERSION.tar.gz
SOURCE_URL[0]=$GNU_URL/$MODULE
SOURCE_URL[1]=ftp://ftp.gnu.org/pub/gnu/$MODULE
SOURCE_URL[2]=ftp://ftp.cwru.edu/pub/$MODULE
```

Przygotowanie źródeł

- proxy, cache, mount -o bind, nfs
- różne formaty kompresji, file, bsdtar/tar -xa/busybox tar
- rozpakowanie we wspólnym katalogu lub w katalogu tymczasowym, overlayfs/aufs

Konfiguracja

- programy: autotools, cmake, setup.py, scons, Makefile.PL, pkg-config, ruby, waf, xmkmf
- konfiguracja w katalogu wyników lub w katalogu ze źródłami, chroot, overlays/aufs
- programy do konfigurowania i budowania

Dystrybucja	**program**	**Język**
Arch	makepkg	bash
Void linux	xbps-src	bash
Gentoo	emerge	Python
Gobolinux	Compile	bash
Sourcemage	cast	bash
Lunar	lin, lvu	bash
Crux	pkgmk, prt-get	bash, c++
Nutyx	pkgmk, cards	c++
Exherbo	cave	c++
KaNaPi	pkg_kanapi, make	bash, Makefile's

Skrypty do budowania pakietów

- skrypty w dystrybucjach: bash, python, yaml, ruby, guile

Dystrybucja	**przygotowanie**	**konfiguracja**	**budowanie**	**instalacja**
KaNaPi	pkg_prepare()	pkg_configure()	pkg_build()	pkg_install()
Arch	prepare()	build ()	build()	package()
Gentoo	src_prepare()	src_configure()	src_compile()	
Gobolinux	configure_options		recipe_type	
Void Linux	pre_configure			
Exherbo	src_prepare	src_configure	src_compile	
Crux	build()	build()	build()	build()
Nutyx	build()	build()	build()	build()

Budowanie i instalacja

- programy do budowania: waf, rebar, qmake, gem, ninja, make, cmake
- ccache, distcc
- programy do instalacji: make, install.py, gem, install

Dystrybucja	Budowanie	Instalacja	Budowanie	Instalacja
Crux	pkgmk -if -d	pkgadd pakiet	KPAK	IPAK
Nutyx	pkgmk	pkgadd pakiet	KPAK	IPAK
Lunar	lin -c pakiet		KPAK	
SourceMage	cast -c pakiet		/usr/src/pakiet	
Void	./xbps-src pkg pakiet	xbps-install pakiet	chroot	IPAK
GoboLinux	Compile Pakiet	InstallPackage Pakiet	KPAK + UFS	IPAK
Arch	makepkg	pacman -U pakiet	KPAK	IPAK

KPAK - katalog programu
IPAK - instalacja z pakietu
UFS - unionFS, fuse, overlayFS

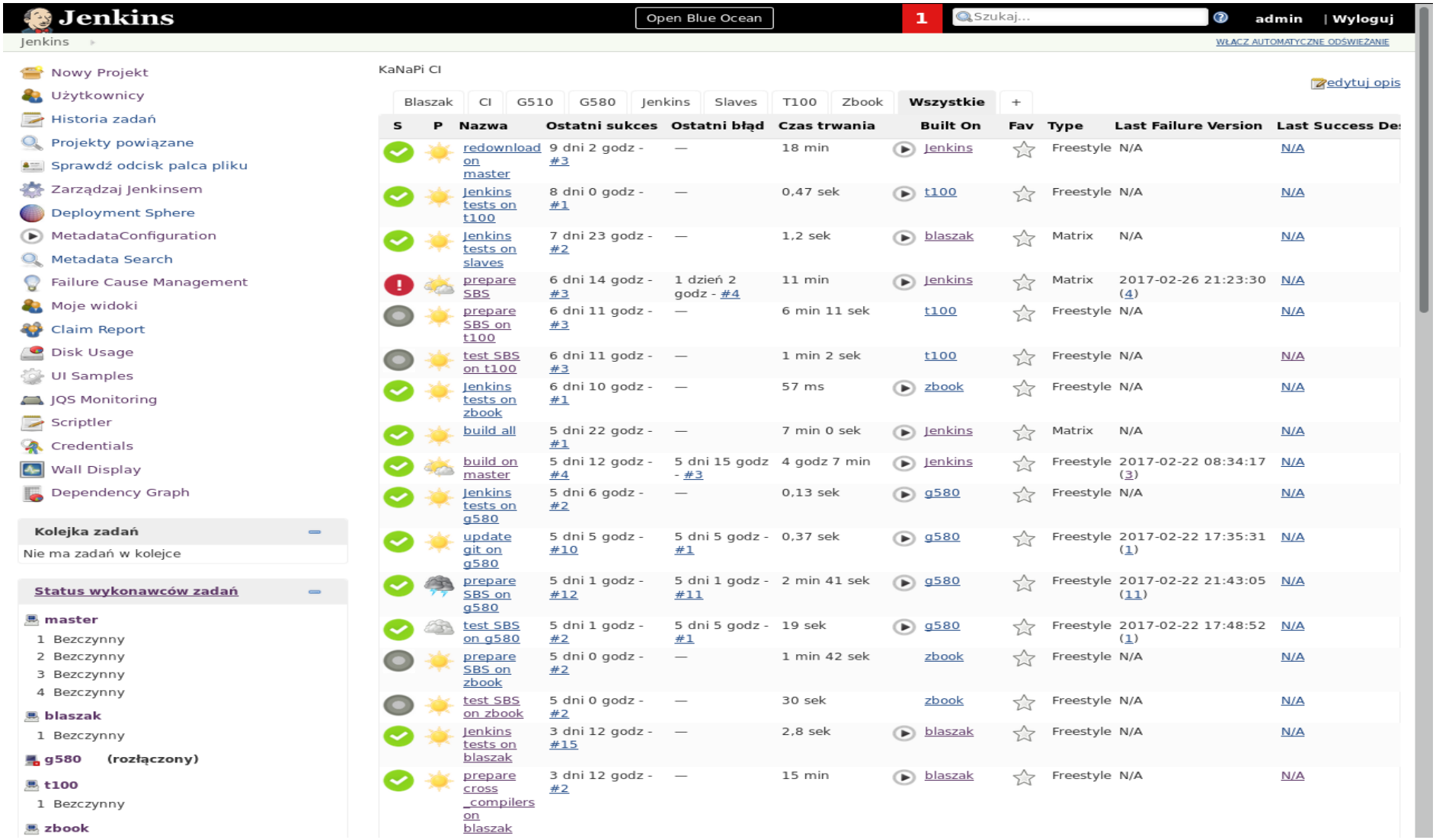
Budowanie i instalacja w KaNaPi

- budowanie w katalogu programu
  - pkg_kanapi nazwa.kanapi build
  - pkg_kanapi nazwa.kanapi install
- instalowanie w systemie lub katalogu domowym
- budowanie z zależnościami
  - make pakiet ACTION=install
  - ./build nazwa_pakietu
  - ./install nazwa_pakietu
  - ./rebuild_install nazwa_pakietu
  - ./reinstall nazwa_pakietu
- programy do zarządzania pakietami: pkg, pkg_dev

Budowanie KaNaPi

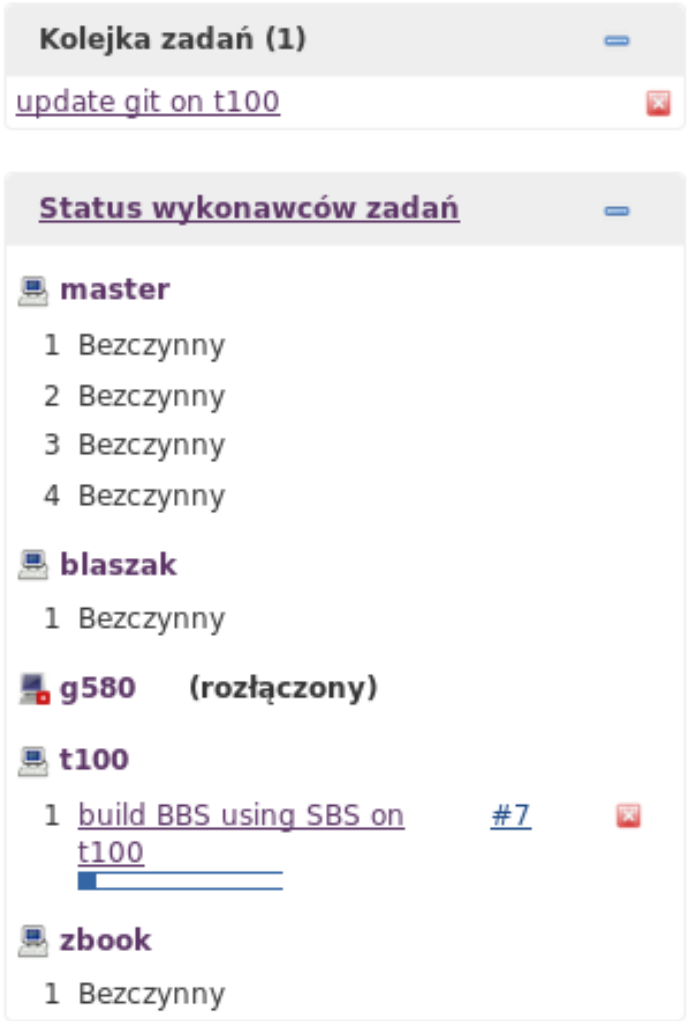
- w aktualnym systemie $\longrightarrow$ pełny system
  - kompilatory, rootfs, BBS (36 pakietów)
  - pozostałe pakiety
- w aktualnym systemie $\longrightarrow$ wersja minimum
  - kompilatory, rootfs, FBS (6 pakietów)
  - SBS (bootstrap, stage3)
    - składany z: kompilatory + rootfs + FBS
- CI - online
  - BBS
  - apps_txt, devel, sound
- chroot z SBS
  - BBS + pozostałe pakiety
- Jenkins
  - FBS, SBS, BBS
  - pozostałe pakiety
  - minimalne testy SBS

Jenkins dla KaNaPi



Wybrana maszyna w Jenkinsie

Maszyny w Jenkinsie



CI dla KaNaPi

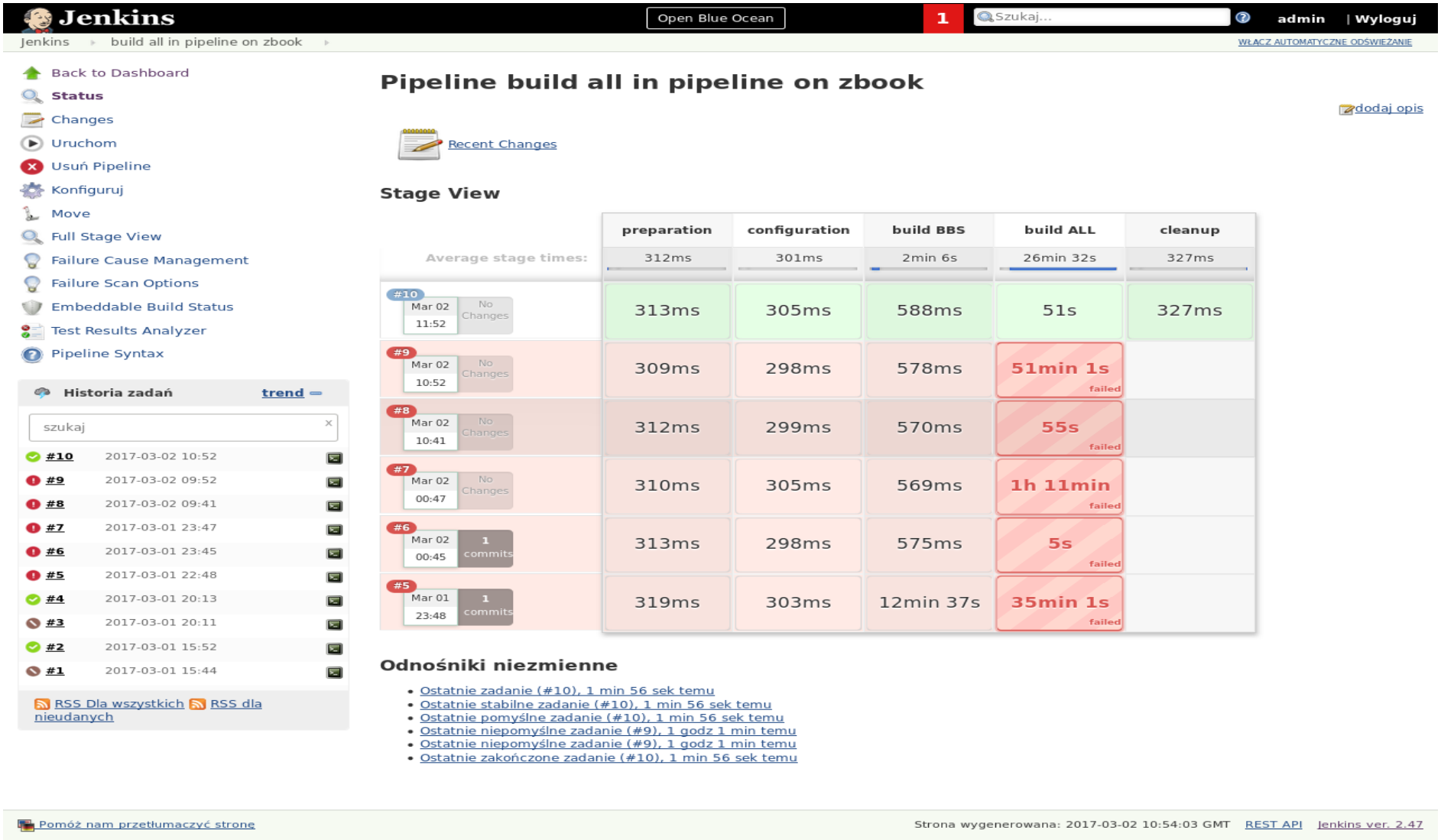
Blaszak | **CI** | G510 | G580 | Jenkins | Slaves | T100 | Zbook | Wszystkie | +

S	P	Nazwa ↓	Ostatni sukces	Ostatni błąd	Czas trwania	
✓	☀	build all	5 dni 22 godz - #1	—	7 min 0 sek	▶
●	☀	build BBS using SBS	—	—	nd.	▶
!	⛈	build with SBS	—	5 dni 22 godz - #2	3 godz 26 min	▶
!	⛅	prepare SBS	6 dni 14 godz - #3	1 dzień 2 godz - #4	11 min	▶
✓	☀	update git on slaves	1 dzień 2 godz - #20	6 dni 12 godz - #10	6 sek	▶

Ikona: S M L

Legenda RSS Dla wszystkich RSS Tylko niepowodzenia RSS Tylko dla najnowszych

Jenkins pipeline



Jenkins pipeline skrypt

```
node ('zbook') {
        stage('build BBS') {
        sh '''#!/bin/bash
        cd /kanapi_build/kanapi
        make bbs
        '''
    }
    stage('build ALL') {
        sh '''#!/bin/bash
        cd /kanapi_build/kanapi
        make all
        '''
    }
    stage('cleanup') {
        sh '''#!/bin/bash
        cd /kanapi_build/kanapi
        ./configure umount-src && ./configure umount-ccache
        '''
    }
}
```

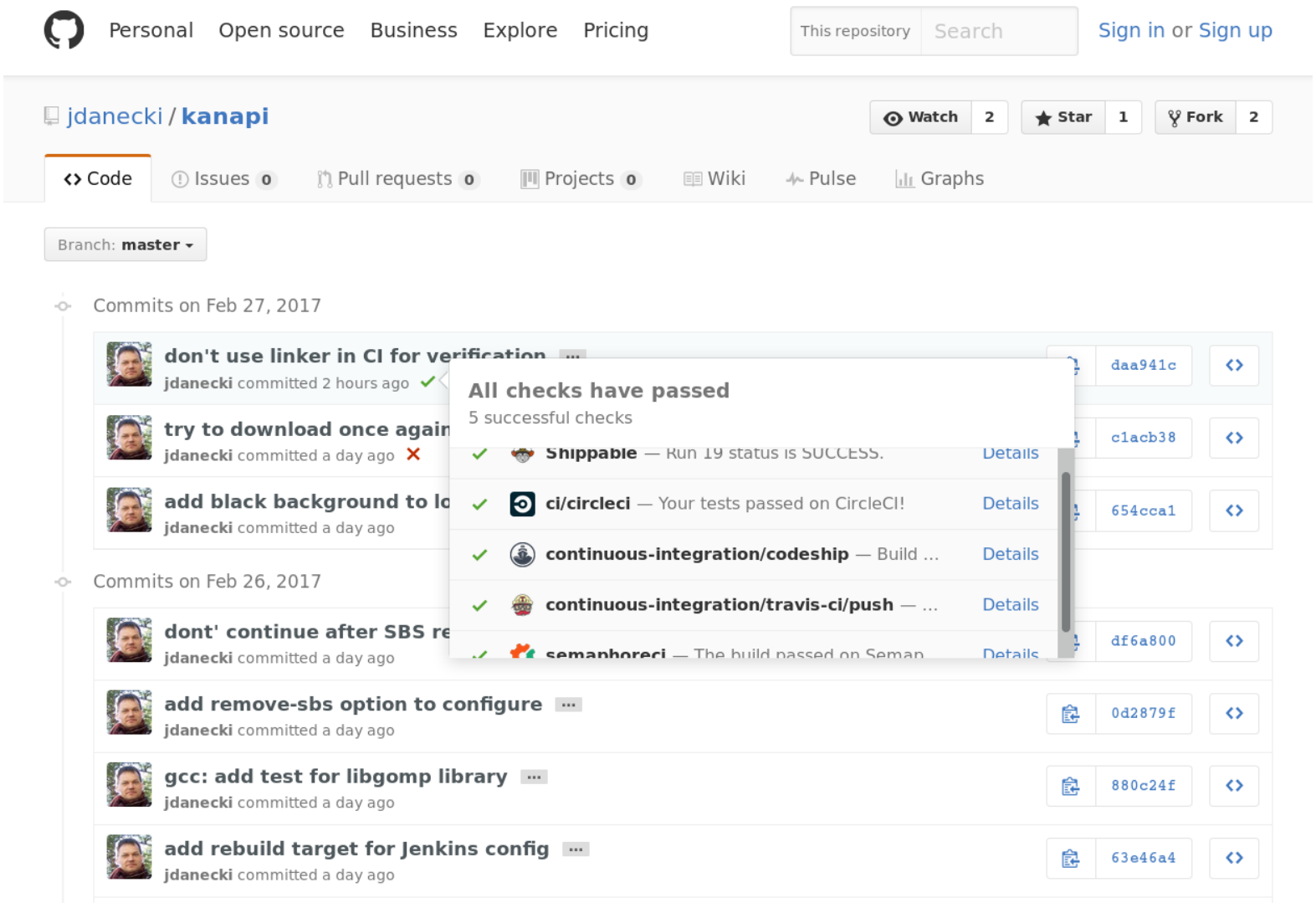
Jenkins pipeline steps

Step	Status
Start of Pipeline - (no timing in block)	
Allocate node : Start - (51 min in block)	
Allocate node : Body : Start - (51 min in block)	
Stage : Start - (0,31 sek in block)	
preparation - (0,3 sek in block)	
Shell Script - (0,26 sek in self)	
Stage : Start - (0,3 sek in block)	
configuration - (0,29 sek in block)	
Shell Script - (0,26 sek in self)	
Stage : Start - (0,58 sek in block)	
build BBS - (0,57 sek in block)	
Shell Script - (0,54 sek in self)	
Stage : Start - (51 min in block)	
build ALL - (51 min in block)	
Shell Script - (51 min in self)	

Integracja z github.com

- github.com/integrations
- IDE
- code review
- code coverage
- tłumaczenia
- dokumentacja
- komunikacja
- CI
- deployment
- zarządzanie projektem
- monitorowanie jakości projektu
- zarządzanie błędami
- CLI/GUI

Github dla KaNaPi



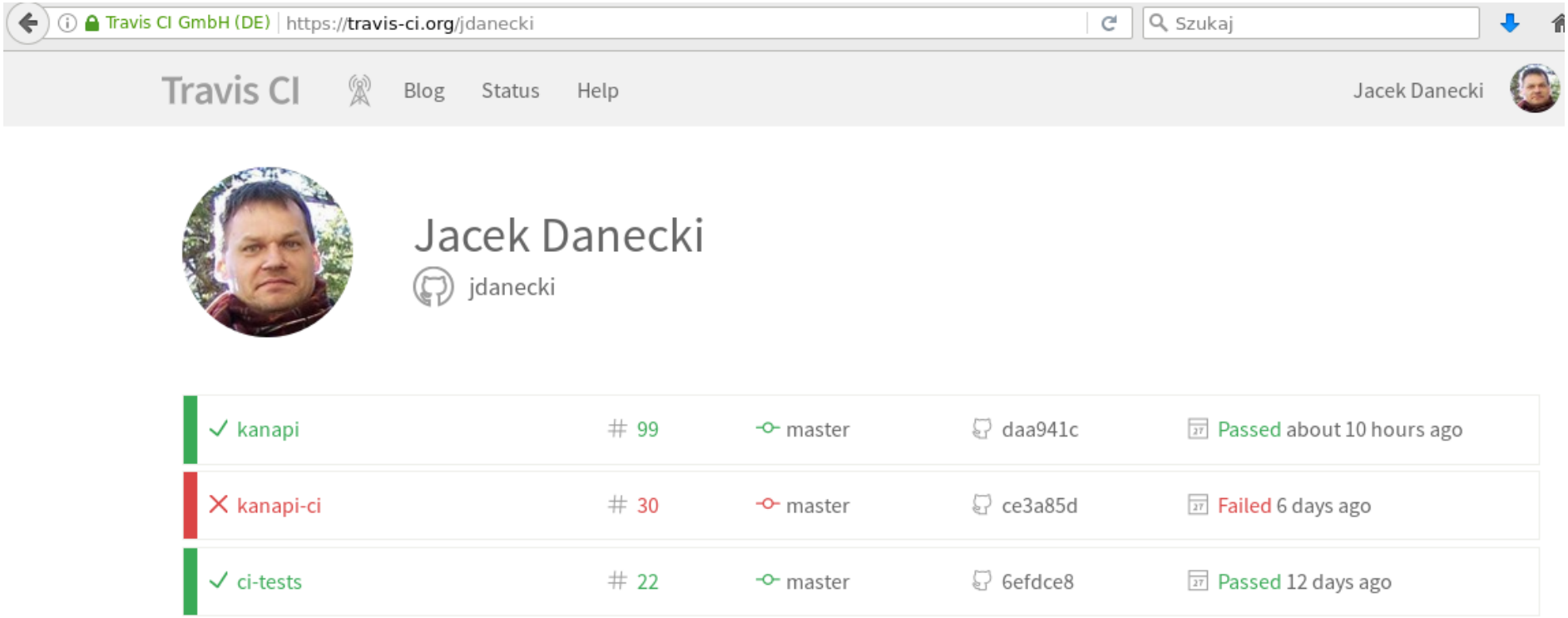
Serwisy CI dla KaNapi

- travis.org
  - budowanie równoległe
- codeship.com
  - budowanie szeregowe
  - dostęp ssh
  - 100 buildów/miesiąc
- circleci.com
  - budowanie równoległe
  - dostęp ssh
- app.shippable.com
  - budowanie szeregowe
- semaphoreci.com
  - budowanie szeregowe
  - dostęp ssh

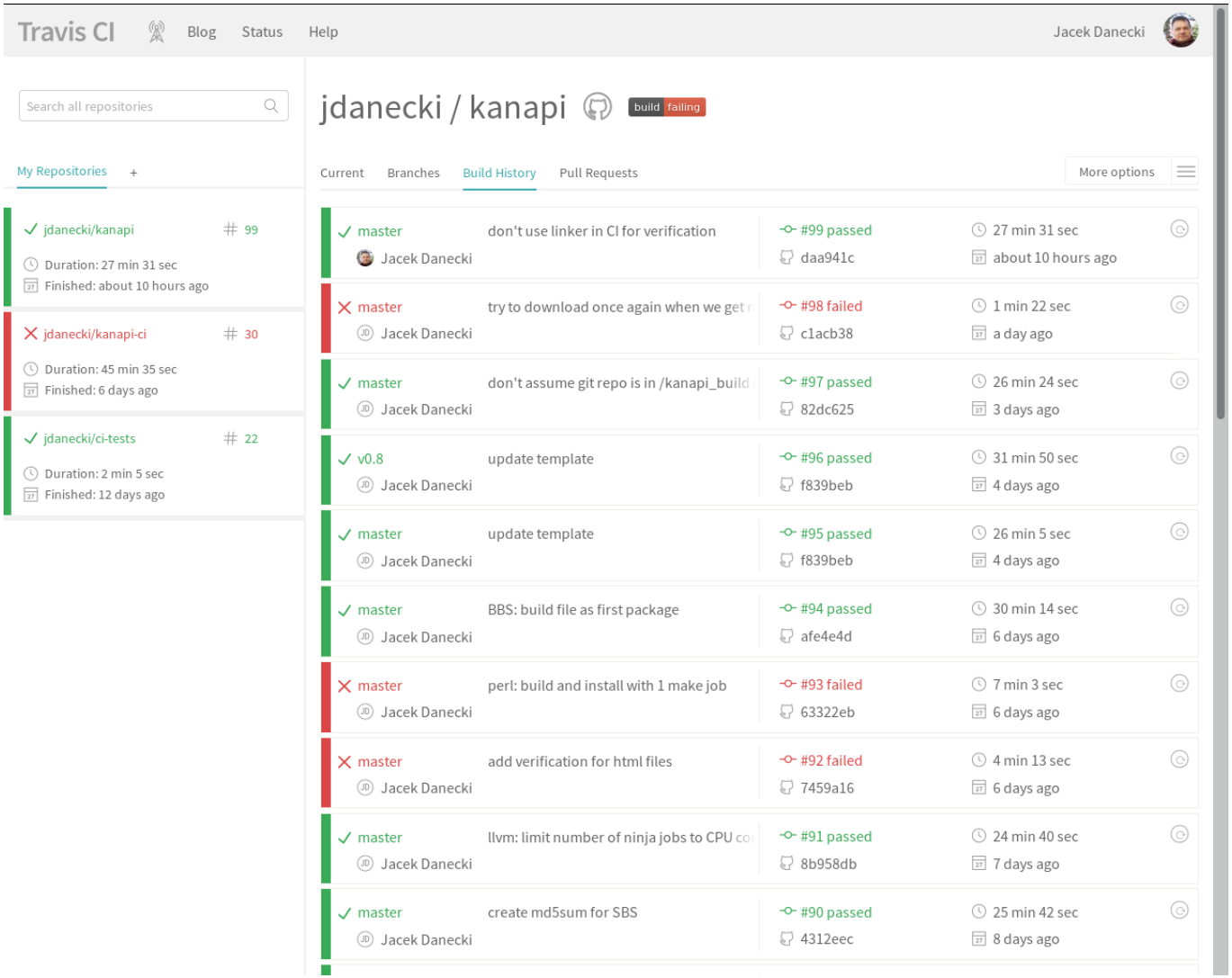
Konfiguracja systemów CI dla KaNapi

CI	mem	disk	cpu's	user	gcc	OS	czas [min]
travis	62GB	14GB	32	travis	4.6.3	ubuntu 12.04.5	25
codeship	16GB	30GB	36	rof	4.8.4	ubuntu 14.04.5	30
circleci	62GB	609GB	32	ubuntu	4.8.4	ubuntu 14.04.4	43
shippable	4GB	39GB	2	root	5.3.0	ubuntu 14.04.3	50
semaphoreci	32GB	10GB	8	runner	4.8.4	ubuntu 14.04.2	23-34

Travis

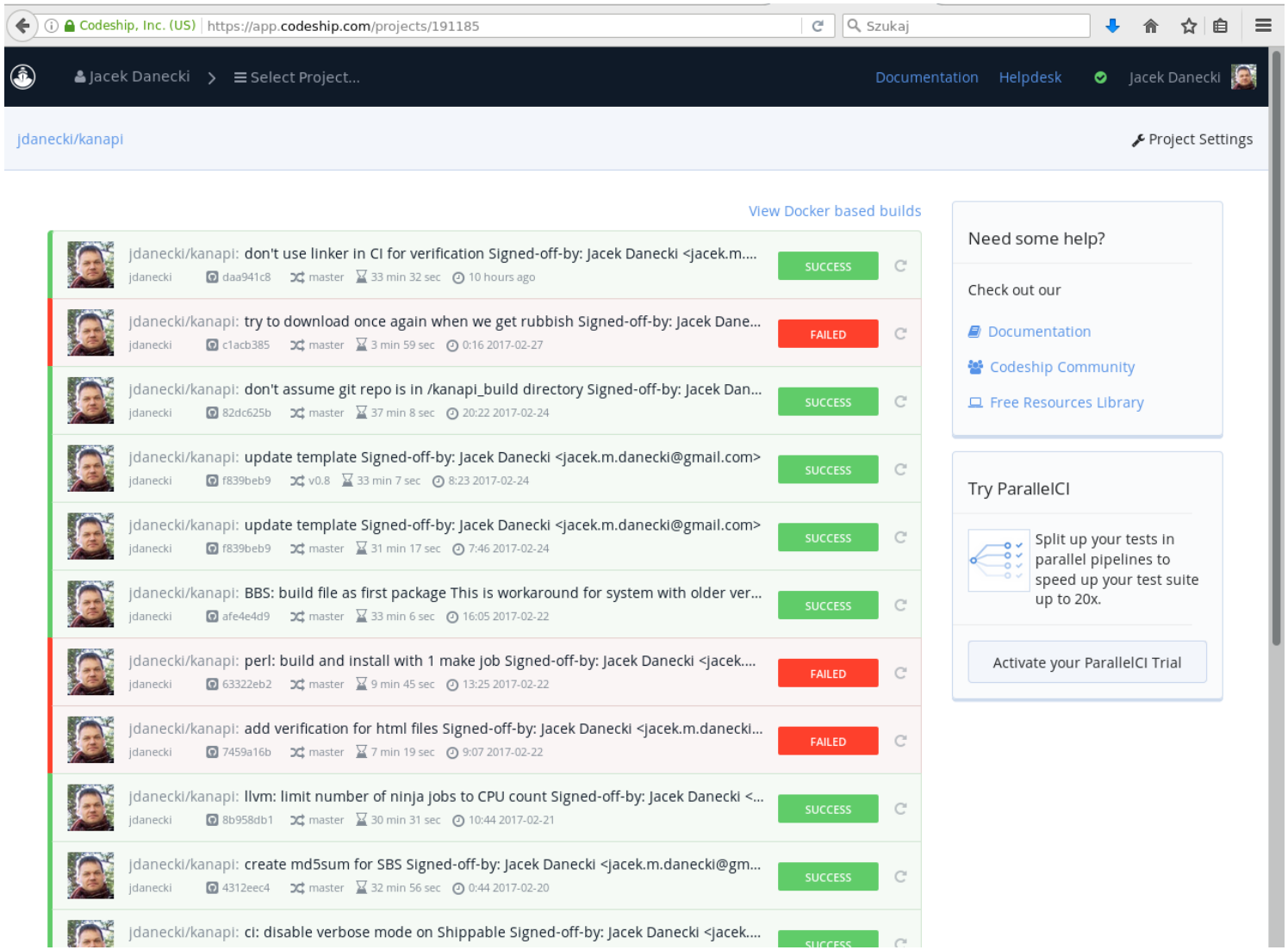

Travis CI GmbH (DE) | https://travis-ci.org/jdanecki
Szukaj
Travis CI
Blog
Status
Help
Jacek Danecki
Jacek Danecki
jdanecki
kanapi # 99 master daa941c Passed about 10 hours ago
kanapi-ci # 30 master ce3a85d Failed 6 days ago
ci-tests # 22 master 6efdce8 Passed 12 days ago

Travis builds

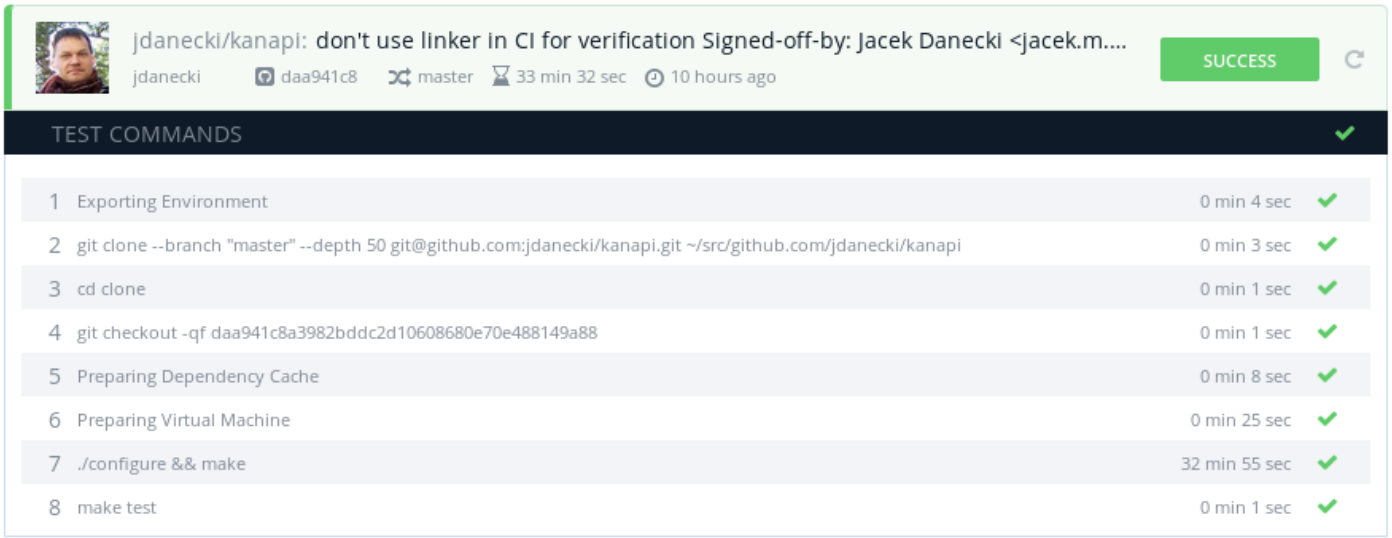


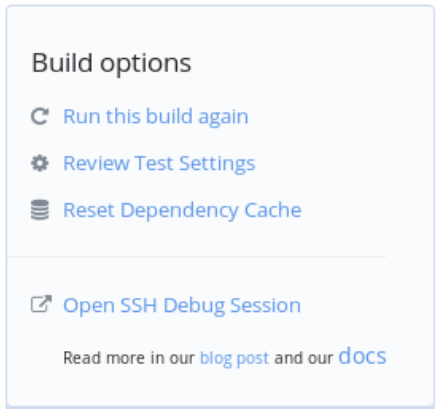
Travis build log

Codeship


Codeship, Inc. (US) https://app.codeship.com/projects/191185
Szukaj
Jacek Danecki
Select Project...
Documentation
Helpdesk
Jacek Danecki
jdanecki/kanapi
Project Settings
View Docker based builds
jdanecki/kanapi: don't use linker in CI for verification Signed-off-by: Jacek Danecki <jacek.m....
jdanecki daa941c8 master 33 min 32 sec 10 hours ago
SUCCESS
jdanecki/kanapi: try to download once again when we get rubbish Signed-off-by: Jacek Dane...
jdanecki c1acb385 master 3 min 59 sec 0:16 2017-02-27
FAILED
jdanecki/kanapi: don't assume git repo is in /kanapi_build directory Signed-off-by: Jacek Dan...
jdanecki 82dc625b master 37 min 8 sec 20:22 2017-02-24
SUCCESS
jdanecki/kanapi: update template Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>
jdanecki f839beb9 v0.8 33 min 7 sec 8:23 2017-02-24
SUCCESS
jdanecki/kanapi: update template Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>
jdanecki f839beb9 master 31 min 17 sec 7:46 2017-02-24
SUCCESS
jdanecki/kanapi: BBS: build file as first package This is workaround for system with older ver...
jdanecki afe4e4d9 master 33 min 6 sec 16:05 2017-02-22
SUCCESS
jdanecki/kanapi: perl: build and install with 1 make job Signed-off-by: Jacek Danecki <jacek....
jdanecki 63322eb2 master 9 min 45 sec 13:25 2017-02-22
FAILED
jdanecki/kanapi: add verification for html files Signed-off-by: Jacek Danecki <jacek.m.danecki...
jdanecki 7459a16b master 7 min 19 sec 9:07 2017-02-22
FAILED
jdanecki/kanapi: llvm: limit number of ninja jobs to CPU count Signed-off-by: Jacek Danecki <...
jdanecki 8b958db1 master 30 min 31 sec 10:44 2017-02-21
SUCCESS
jdanecki/kanapi: create md5sum for SBS Signed-off-by: Jacek Danecki <jacek.m.danecki@gm...
jdanecki 4312eec4 master 32 min 56 sec 0:44 2017-02-20
SUCCESS
jdanecki/kanapi: ci: disable verbose mode on Shippable Signed-off-by: Jacek Danecki <jacek....
SUCCESS
Need some help?
Check out our
Documentation
Codeship Community
Free Resources Library
Try ParallelCI
Split up your tests in parallel pipelines to speed up your test suite up to 20x.
Activate your ParallelCI Trial

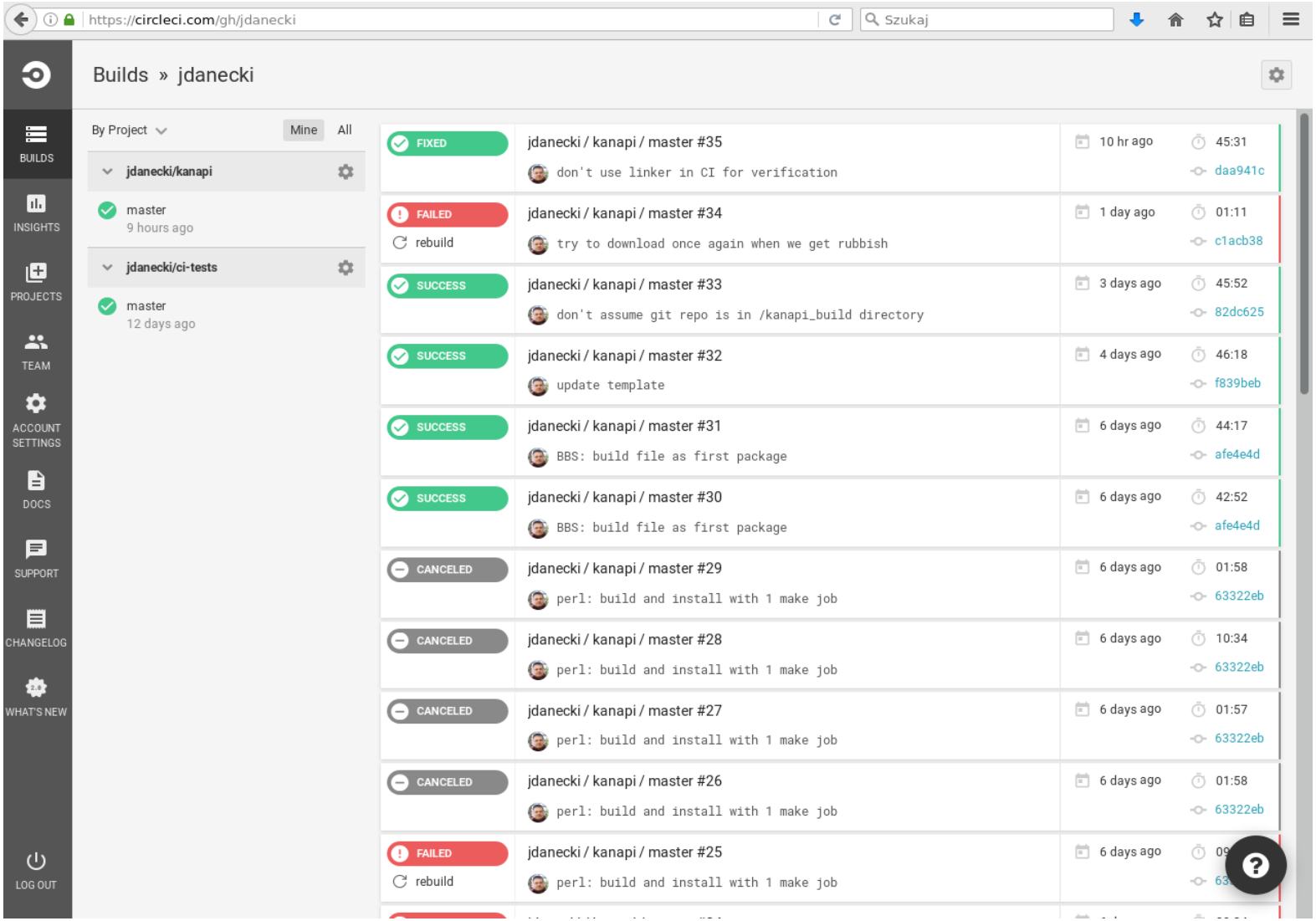
Codeship build



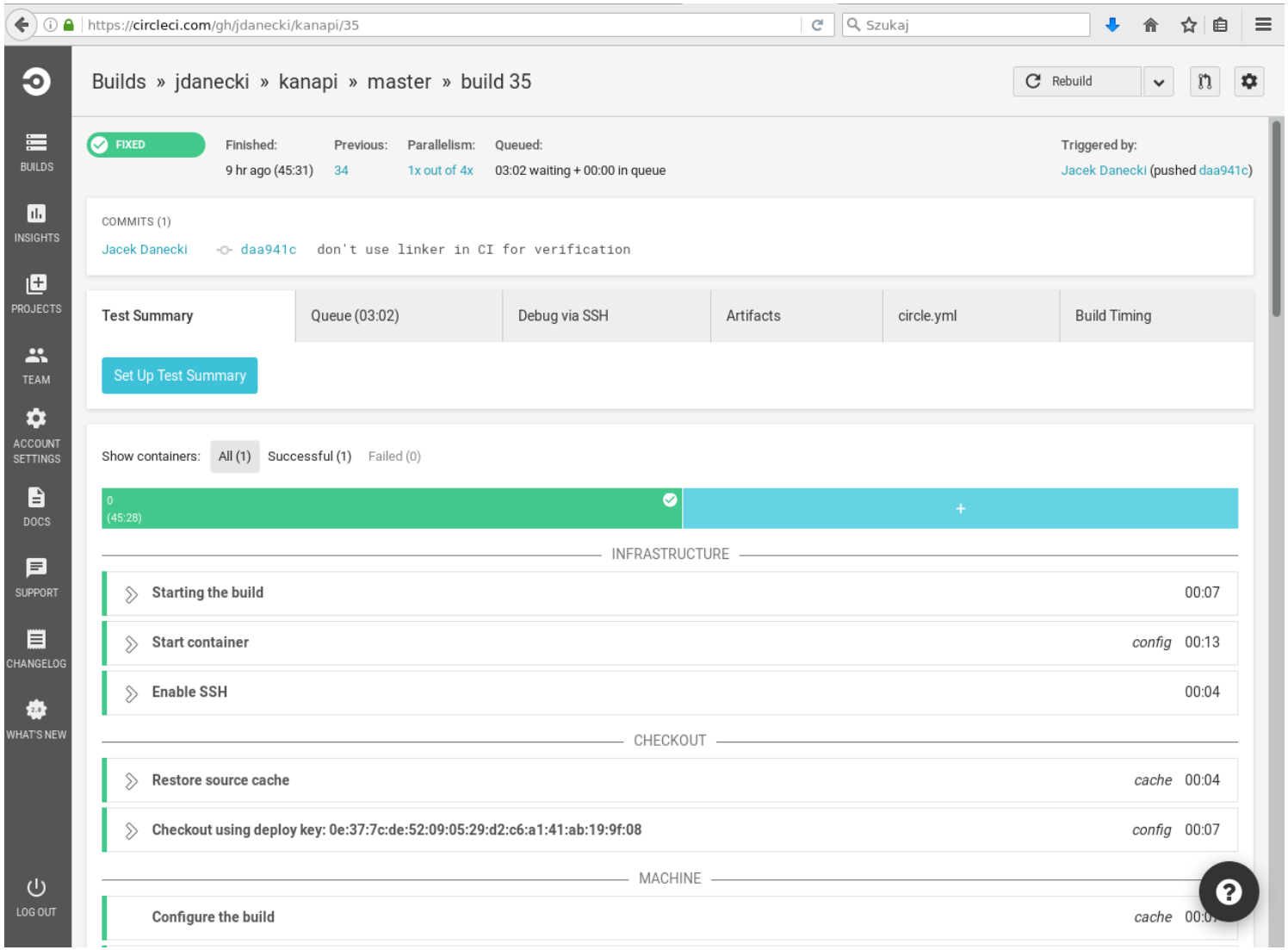


Codeship build log

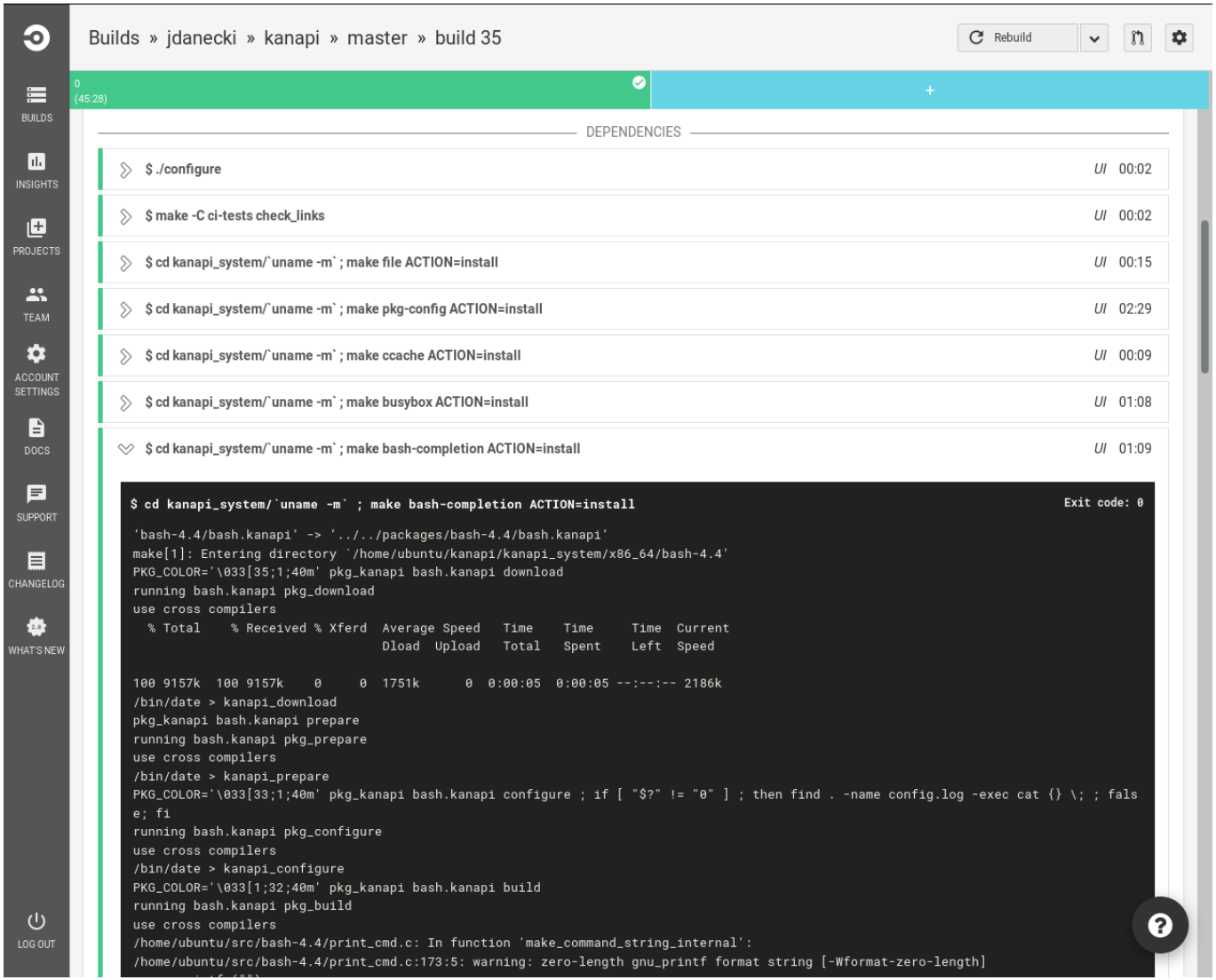
Circle CI


https://circleci.com/gh/jdanecki
Szukaj
Builds » jdanecki
BUILDS
INSIGHTS
PROJECTS
TEAM
ACCOUNT SETTINGS
DOCS
SUPPORT
CHANGELOG
WHAT'S NEW
LOG OUT
By Project
Mine
All
jdanecki/kanapi
master
9 hours ago
jdanecki/ci-tests
master
12 days ago
FIXED
jdanecki / kanapi / master #35
don't use linker in CI for verification
10 hr ago
45:31
daa941c
FAILED
rebuild
jdanecki / kanapi / master #34
try to download once again when we get rubbish
1 day ago
01:11
c1acb38
SUCCESS
jdanecki / kanapi / master #33
don't assume git repo is in /kanapi_build directory
3 days ago
45:52
82dc625
SUCCESS
jdanecki / kanapi / master #32
update template
4 days ago
46:18
f839beb
SUCCESS
jdanecki / kanapi / master #31
BBS: build file as first package
6 days ago
44:17
afe4e4d
SUCCESS
jdanecki / kanapi / master #30
BBS: build file as first package
6 days ago
42:52
afe4e4d
CANCELED
jdanecki / kanapi / master #29
perl: build and install with 1 make job
6 days ago
01:58
63322eb
CANCELED
jdanecki / kanapi / master #28
perl: build and install with 1 make job
6 days ago
10:34
63322eb
CANCELED
jdanecki / kanapi / master #27
perl: build and install with 1 make job
6 days ago
01:57
63322eb
CANCELED
jdanecki / kanapi / master #26
perl: build and install with 1 make job
6 days ago
01:58
63322eb
FAILED
rebuild
jdanecki / kanapi / master #25
perl: build and install with 1 make job
6 days ago

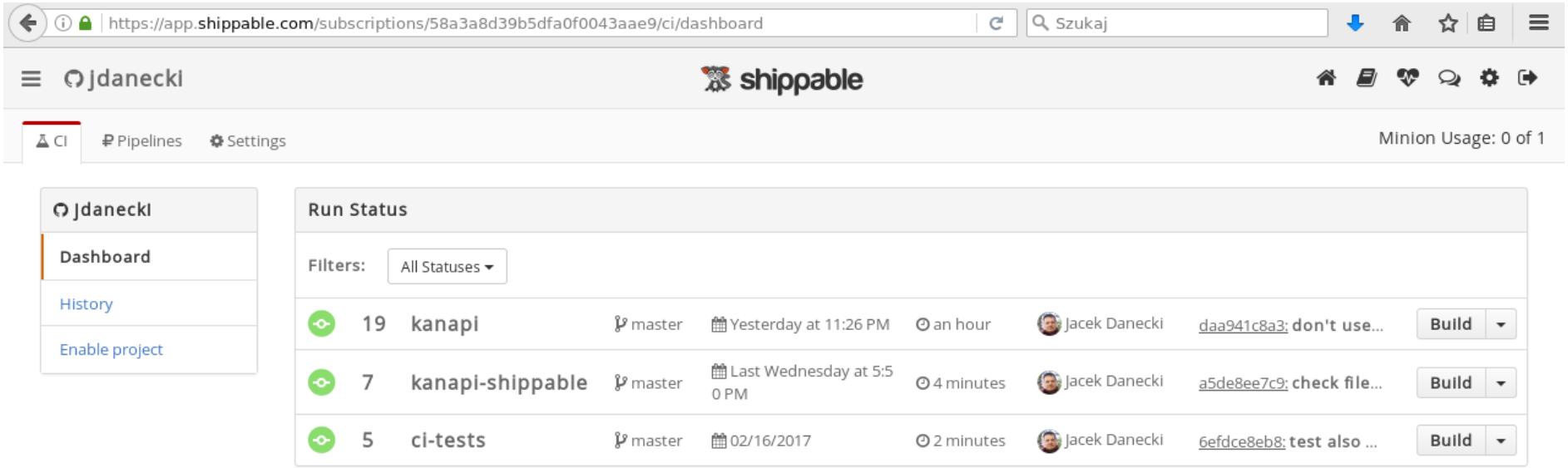
Circle CI build



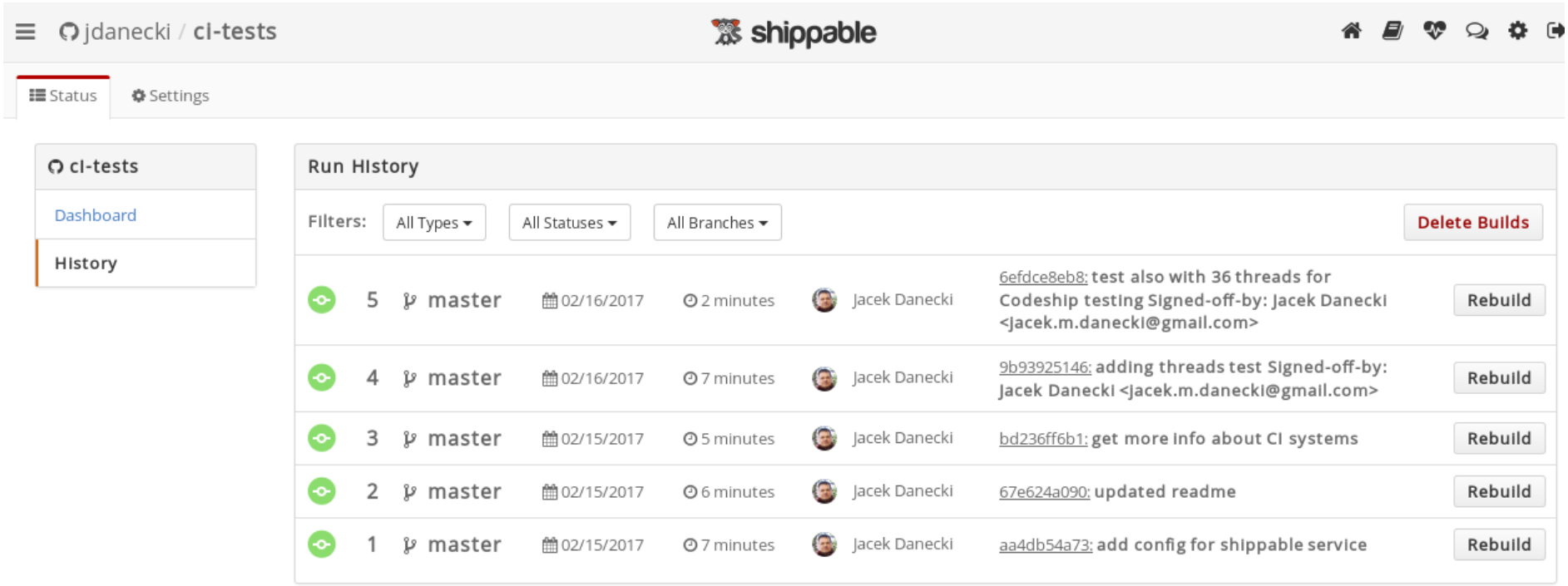
Circle CI build log



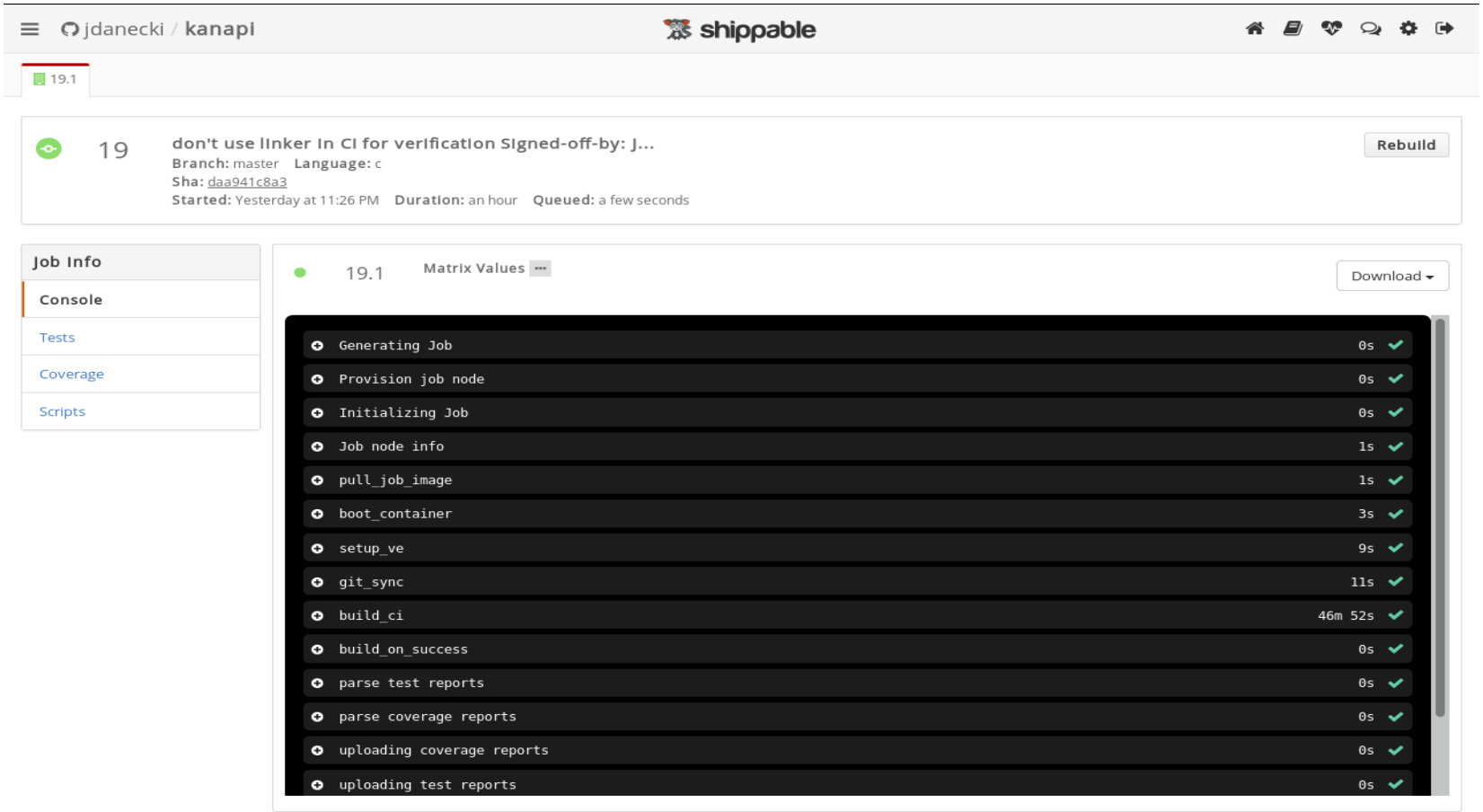
Shippable


https://app.shippable.com/subscriptions/58a3a8d39b5dfa0f0043aae9/ci/dashboard
Szukaj
jdanecki
shippable
CI
Pipelines
Settings
Minion Usage: 0 of 1
jdanecki
Dashboard
History
Enable project
Run Status
Filters:
All Statuses
19 kanapi master Yesterday at 11:26 PM an hour Jacek Danecki daa941c8a3: don't use... Build
7 kanapi-shippable master Last Wednesday at 5:5 0 PM 4 minutes Jacek Danecki a5de8ee7c9: check file... Build
5 ci-tests master 02/16/2017 2 minutes Jacek Danecki 6efdce8eb8: test also ... Build

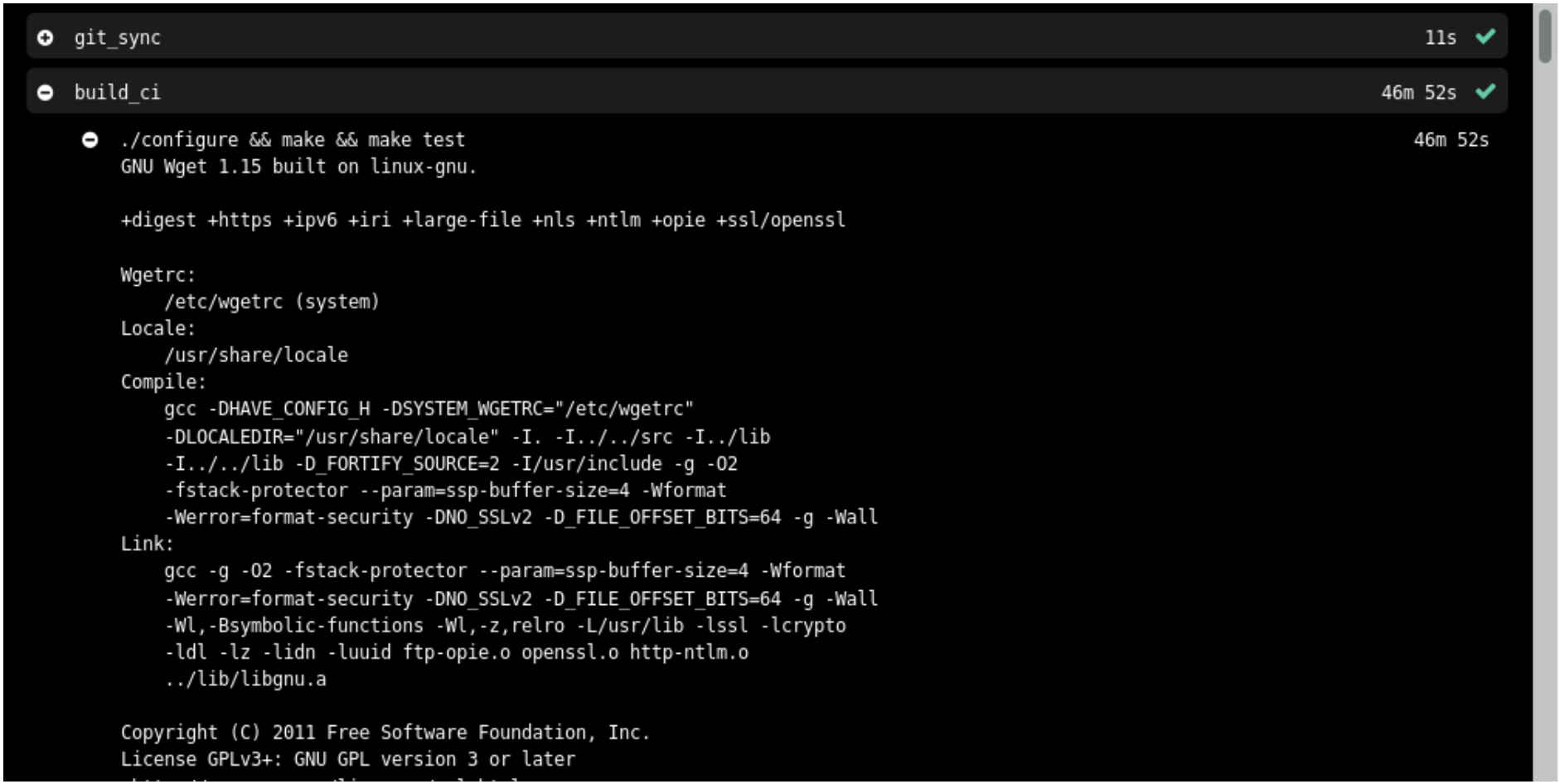
Shippable builds



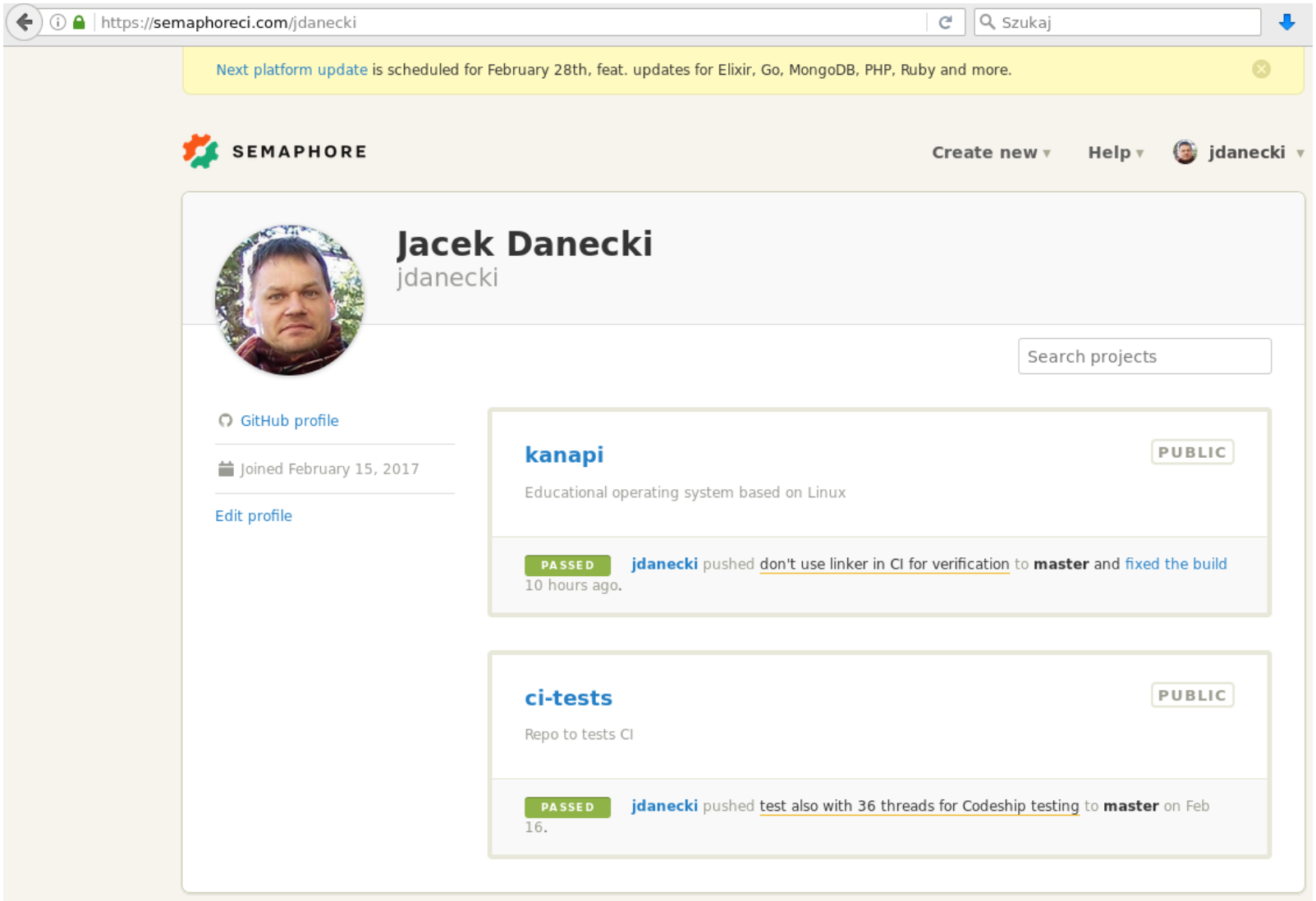
Shippable build



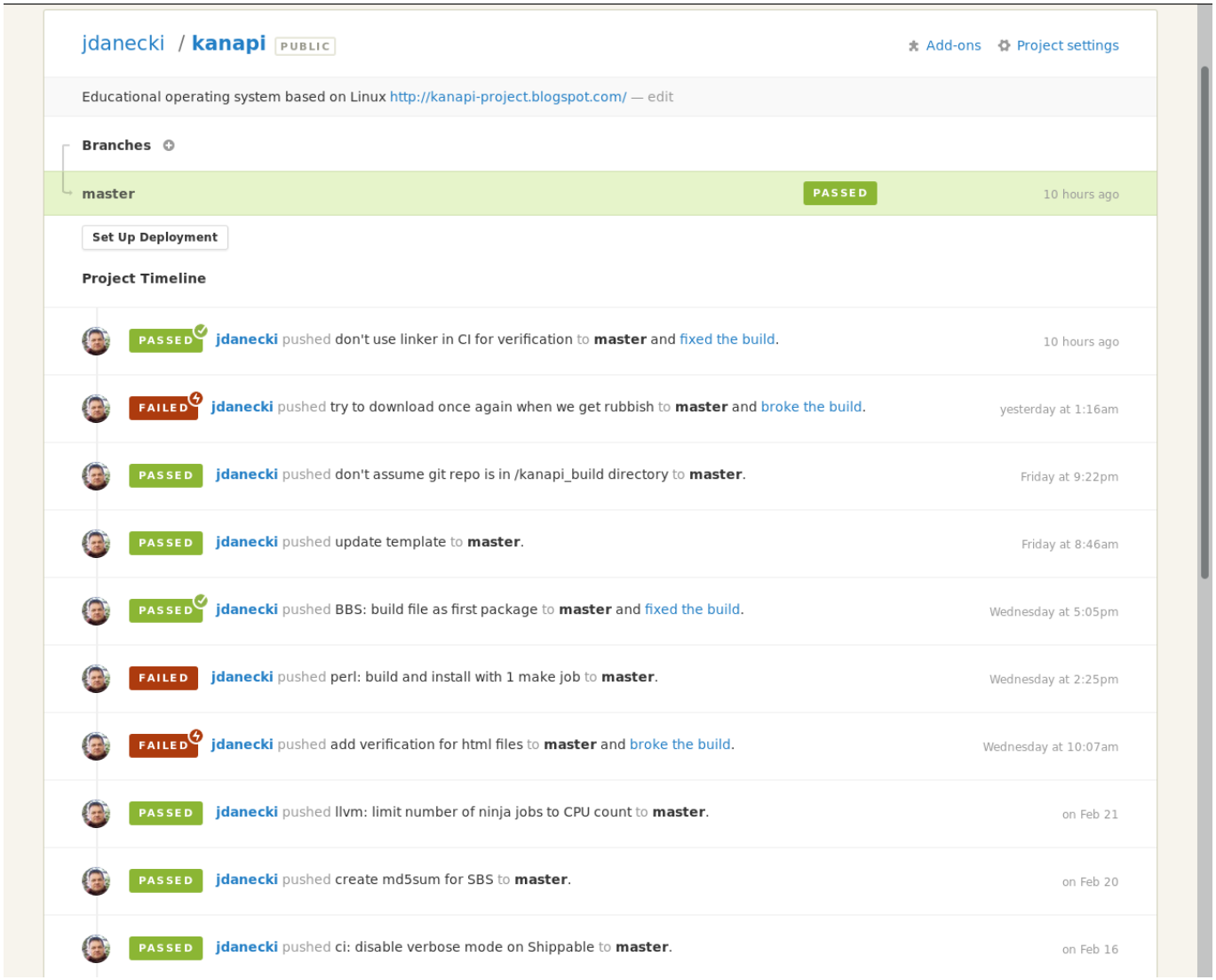
Shippable build log



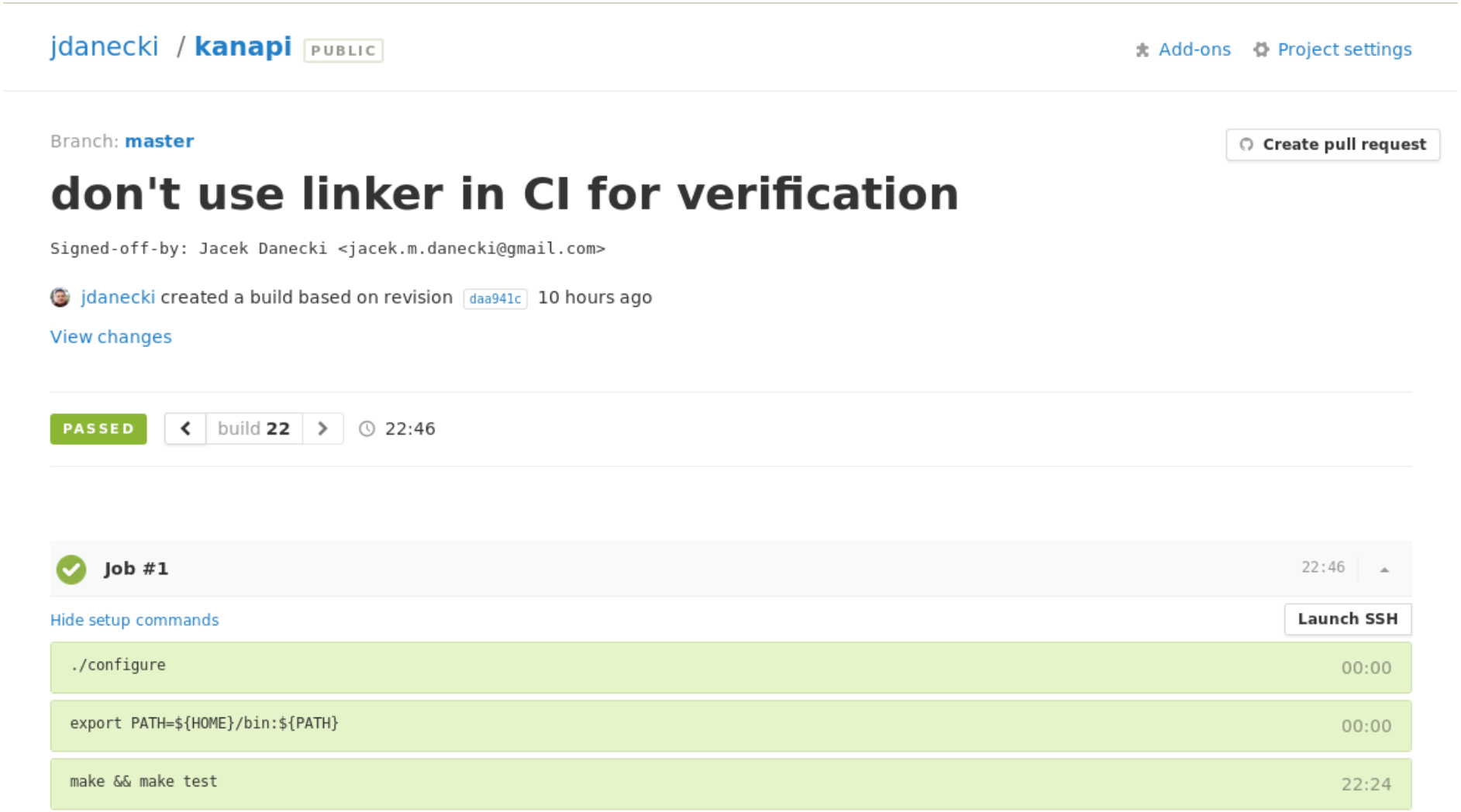
Semaphore


https://semaphoreci.com/jdanecki
Szukaj
Next platform update is scheduled for February 28th, feat. updates for Elixir, Go, MongoDB, PHP, Ruby and more.
SEMAPHORE
Create new
Help
jdanecki
Jacek Danecki
jdanecki
Search projects
GitHub profile
Joined February 15, 2017
Edit profile
kanapi
PUBLIC
Educational operating system based on Linux
PASSED
jdanecki pushed don't use linker in CI for verification to master and fixed the build 10 hours ago.
ci-tests
PUBLIC
Repo to tests CI
PASSED
jdanecki pushed test also with 36 threads for Codeship testing to master on Feb 16.

Semaphore builds



Semaphore build



Semaphore build log

```
./configure                                                    00:00
```

```
export PATH=${HOME}/bin:${PATH}                                00:00
```

```
make && make test                                              22:24
make -C ci-tests all
make[1]: Entering directory `/home/runner/kanapi/ci-tests'
./prepare_links
'/home/runner/bin/x86_64-kanapi-linux-gnu-g++' -> '/usr/bin/g++'
'/home/runner/bin/x86_64-kanapi-linux-gnu-c++' -> '/usr/bin/c++'
'/home/runner/bin/x86_64-kanapi-linux-gnu-cpp' -> '/usr/bin/cpp'
'/home/runner/bin/x86_64-kanapi-linux-gnu-gcc' -> '/usr/bin/gcc'
'/home/runner/bin/x86_64-kanapi-linux-gnu-ar' -> '/usr/bin/ar'
'/home/runner/bin/x86_64-kanapi-linux-gnu-as' -> '/usr/bin/as'
'/home/runner/bin/x86_64-kanapi-linux-gnu-ld' -> '/usr/bin/ld'
'/home/runner/bin/x86_64-kanapi-linux-gnu-nm' -> '/usr/bin/nm'
'/home/runner/bin/x86_64-kanapi-linux-gnu-objcopy' -> '/usr/bin/objcopy'
'/home/runner/bin/x86_64-kanapi-linux-gnu-objdump' -> '/usr/bin/objdump'
'/home/runner/bin/x86_64-kanapi-linux-gnu-ranlib' -> '/usr/bin/ranlib'
'/home/runner/bin/x86_64-kanapi-linux-gnu-readelf' -> '/usr/bin/readelf'
'/home/runner/bin/x86_64-kanapi-linux-gnu-size' -> '/usr/bin/size'
'/home/runner/bin/x86_64-kanapi-linux-gnu-strings' -> '/usr/bin/strings'
'/home/runner/bin/x86_64-kanapi-linux-gnu-strip' -> '/usr/bin/strip'
cd ../kanapi_system/`uname -m`   ; make pkg-config ACTION=install
make[2]: Entering directory `/home/runner/kanapi/kanapi_system/x86_64'
'libffi-3.2.1/libffi.kanapi' -> '../../packages/libffi-3.2.1/libffi.kanapi'
make[3]: Entering directory `/home/runner/kanapi/kanapi_system/x86_64/libffi-3.2.1'
PKG_COLOR='\033[35;1;40m' pkg_kanapi libffi.kanapi download
running libffi_kanapi_pkg_download
                                                  LINE WRAP ON
```

Konfiguracja CI

- Travis → .travis.yml

```
language: c
compiler:
  - gcc
```

- Codeship
  - konfiguracja przez www
- CircleCI
  - circle.yml
  - konfiguracja przez www
- Shippable → shippable.yml

```
language: c
compiler:
  - gcc
```

- SemaphoreCI
  - konfiguracja przez www

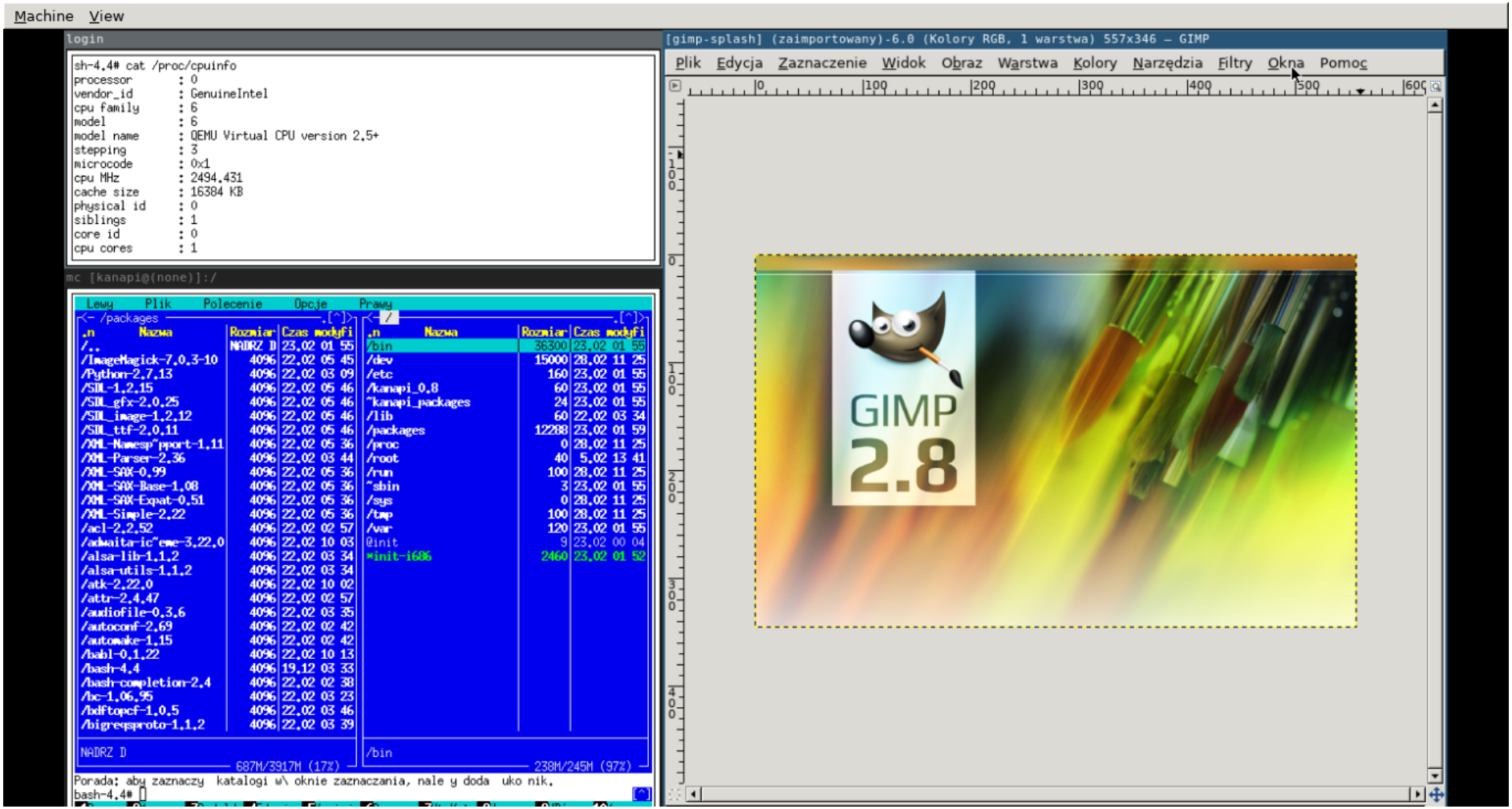
Testowanie

- testy instalacyjne w KaNaPi
  - linker test dla programów i bibliotek dynamicznych
  - interpreter skryptów
- instalacja w "piaskownicy" w Gobolinux, Void Linux
- qemu tests w KaNaPi
  - prepare_kanapi_image_arm, prepare_kanapi_image_i686, prepare_kanapi_image_x86_64
  - qemu-tests-arm, qemu-tests-i686, qemu-tests-arm-console, qemu-tests-x86_64
- https://www.opengroup.org/testing/linux-test
  - LSB (FHS) tests
  - posix conformance tests
  - pthread conformance tests
  - Linux system calls tests
- Fuego - nakładka na Jenkinsa

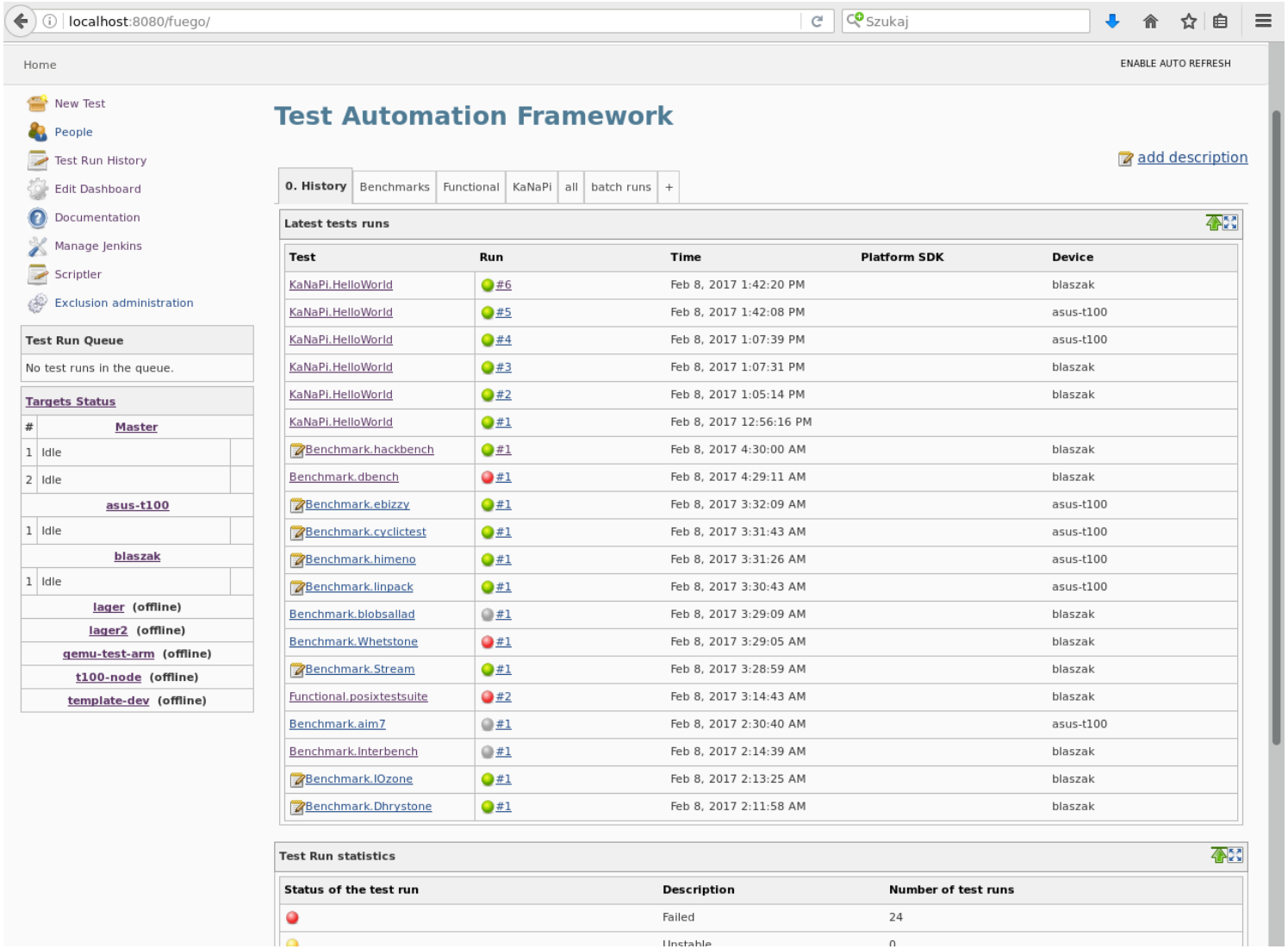
Testowanie (cont.)

- Phoronix test suite
- Linux Test Project
  - komendy
  - kernel
  - sieć
  - open posix testsuite: conformance, functional, stress
  - realtime

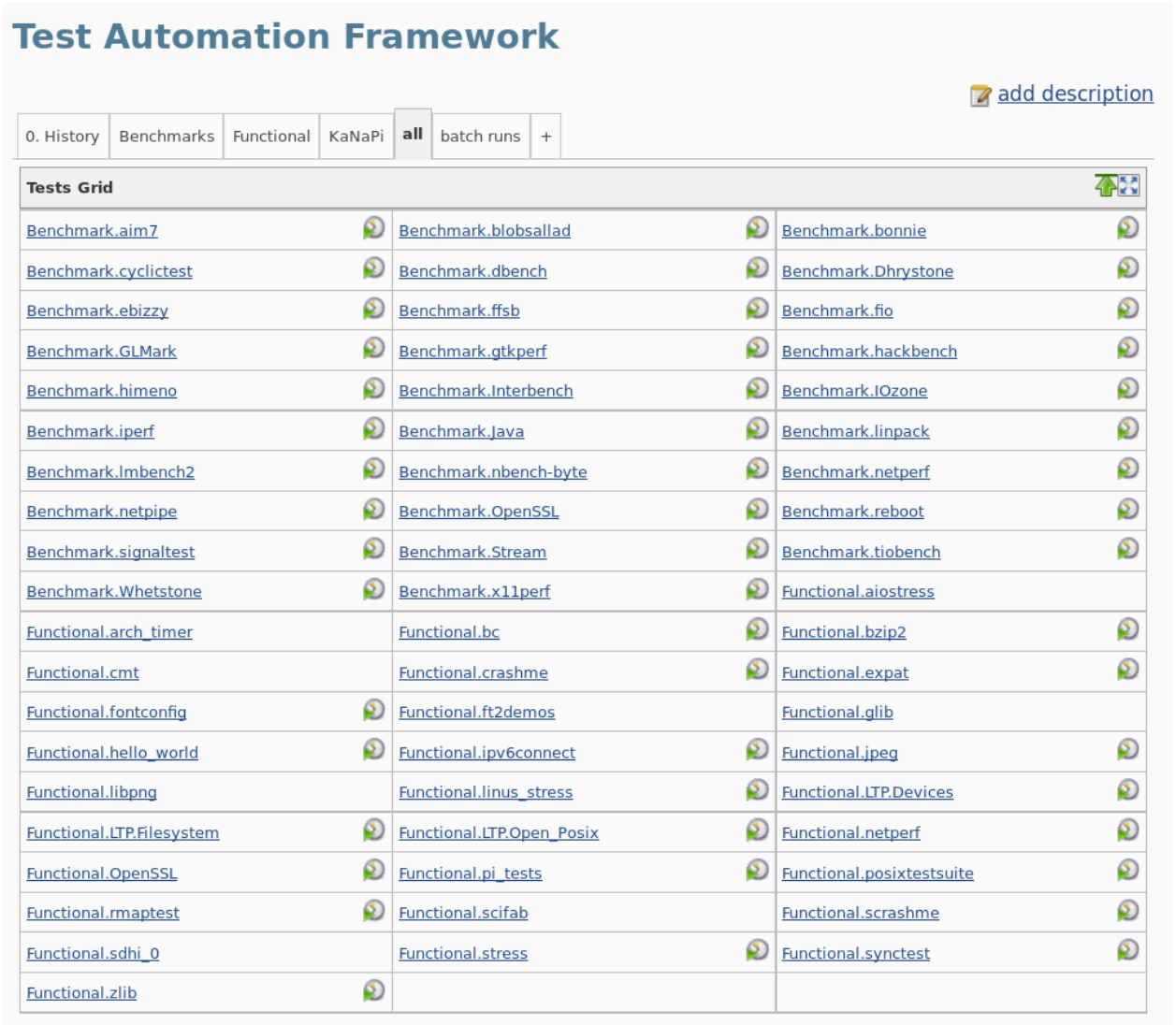
Qemu tests


Machine View
login
sh-4.4# cat /proc/cpuinfo
processor : 0
vendor_id : GenuineIntel
cpu family : 6
model : 6
model name : QEMU Virtual CPU version 2.5+
stepping : 3
microcode : 0x1
cpu MHz : 2494.431
cache size : 16384 KB
physical id : 0
siblings : 1
core id : 0
cpu cores : 1
mc [kanapi@(none)]:/
Lewy Plik Polecenie Opcje Prawy
[gimp-splash] (zaimportowany)-6.0 (Kolory RGB, 1 warstwa) 557x346 – GIMP
Plik Edycja Zaznaczenie Widok Obraz Warstwa Kolory Narzędzia Filtry Okna Pomoc
GIMP
2.8

Fuego


localhost:8080/fuego/
Szukaj
Home
ENABLE AUTO REFRESH
New Test
People
Test Run History
Edit Dashboard
Documentation
Manage Jenkins
Scriptler
Exclusion administration
Test Run Queue
No test runs in the queue.
Targets Status
Master
1 Idle
2 Idle
asus-t100
1 Idle
blaszak
1 Idle
lager (offline)
lager2 (offline)
qemu-test-arm (offline)
t100-node (offline)
template-dev (offline)
Test Automation Framework
add description
0. History
Benchmarks
Functional
KaNaPi
all
batch runs
+
Latest tests runs
Test
Run
Time
Platform SDK
Device
KaNaPi.HelloWorld #6 Feb 8, 2017 1:42:20 PM blaszak
KaNaPi.HelloWorld #5 Feb 8, 2017 1:42:08 PM asus-t100
KaNaPi.HelloWorld #4 Feb 8, 2017 1:07:39 PM asus-t100
KaNaPi.HelloWorld #3 Feb 8, 2017 1:07:31 PM blaszak
KaNaPi.HelloWorld #2 Feb 8, 2017 1:05:14 PM blaszak
KaNaPi.HelloWorld #1 Feb 8, 2017 12:56:16 PM
Benchmark.hackbench #1 Feb 8, 2017 4:30:00 AM blaszak
Benchmark.dbench #1 Feb 8, 2017 4:29:11 AM blaszak
Benchmark.ebizzy #1 Feb 8, 2017 3:32:09 AM asus-t100
Benchmark.cyclictest #1 Feb 8, 2017 3:31:43 AM asus-t100
Benchmark.himeno #1 Feb 8, 2017 3:31:26 AM asus-t100
Benchmark.linpack #1 Feb 8, 2017 3:30:43 AM asus-t100
Benchmark.blobsallad #1 Feb 8, 2017 3:29:09 AM blaszak
Benchmark.Whetstone #1 Feb 8, 2017 3:29:05 AM blaszak
Benchmark.Stream #1 Feb 8, 2017 3:28:59 AM blaszak
Functional.posixtestsuite #2 Feb 8, 2017 3:14:43 AM blaszak
Benchmark.aim7 #1 Feb 8, 2017 2:30:40 AM asus-t100
Benchmark.Interbench #1 Feb 8, 2017 2:14:39 AM blaszak
Benchmark.IOzone #1 Feb 8, 2017 2:13:25 AM blaszak
Benchmark.Dhrystone #1 Feb 8, 2017 2:11:58 AM blaszak
Test Run statistics
Status of the test run
Description
Number of test runs
Failed 24
Unstable 0

Fuego - wszystkie testy



Test Automation Framework

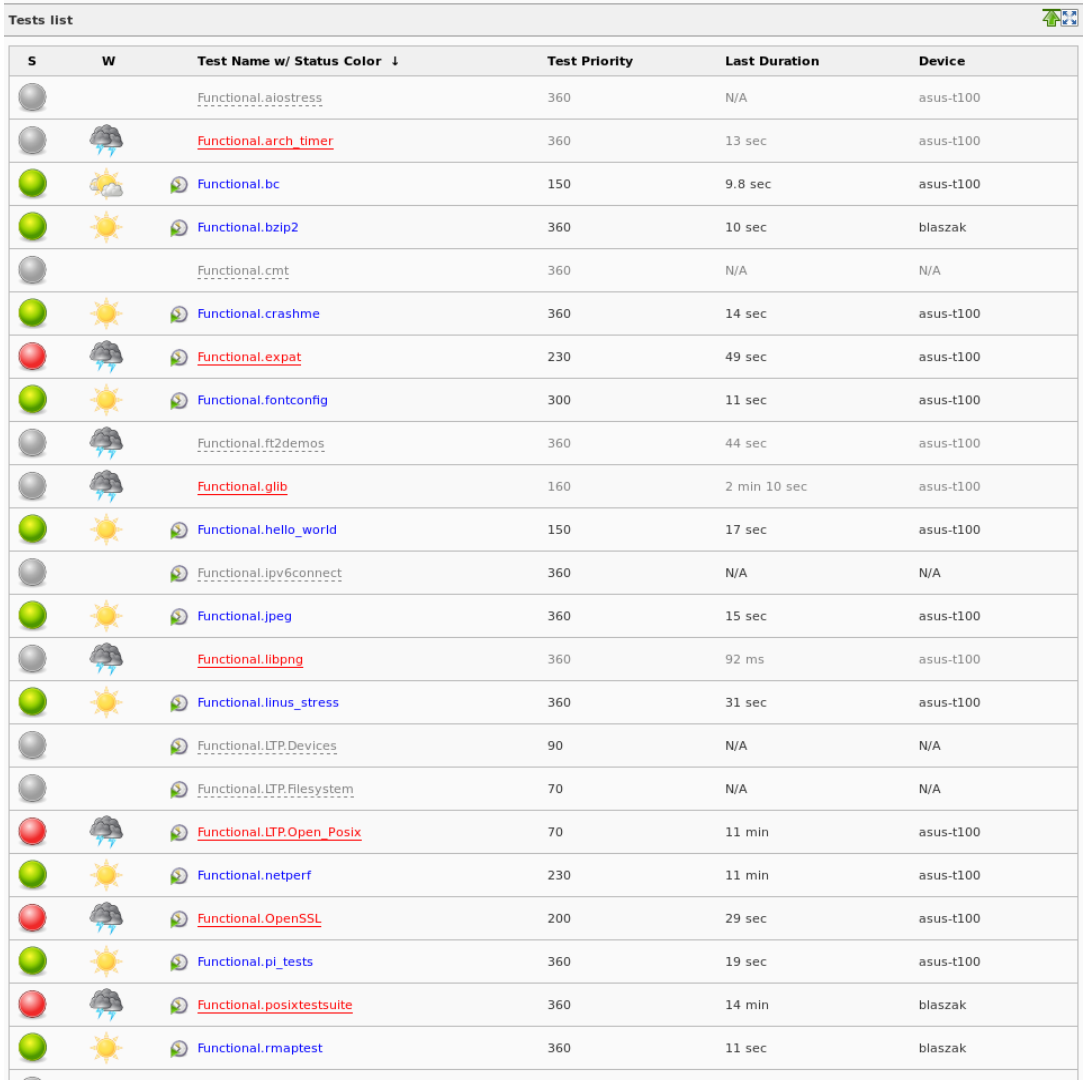
add description

0. History | Benchmarks | Functional | KaNaPi | **all** | batch runs | +

Tests Grid

Benchmark.aim7	Benchmark.blobsallad	Benchmark.bonnie
Benchmark.cyclictest	Benchmark.dbench	Benchmark.Dhrystone
Benchmark.ebizzy	Benchmark.ffsb	Benchmark.fio
Benchmark.GLMark	Benchmark.gtkperf	Benchmark.hackbench
Benchmark.himeno	Benchmark.Interbench	Benchmark.IOzone
Benchmark.iperf	Benchmark.Java	Benchmark.linpack
Benchmark.lmbench2	Benchmark.nbench-byte	Benchmark.netperf
Benchmark.netpipe	Benchmark.OpenSSL	Benchmark.reboot
Benchmark.signaltest	Benchmark.Stream	Benchmark.tiobench
Benchmark.Whetstone	Benchmark.x11perf	Functional.aiostress
Functional.arch_timer	Functional.bc	Functional.bzip2
Functional.cmt	Functional.crashme	Functional.expat
Functional.fontconfig	Functional.ft2demos	Functional.glib
Functional.hello_world	Functional.ipv6connect	Functional.jpeg
Functional.libpng	Functional.linus_stress	Functional.LTP.Devices
Functional.LTP.Filesystem	Functional.LTP.Open_Posix	Functional.netperf
Functional.OpenSSL	Functional.pi_tests	Functional.posixtestsuite
Functional.rmaptest	Functional.scifab	Functional.scrashme
Functional.sdhi_0	Functional.stress	Functional.synctest
Functional.zlib		

Fuego - functional tests



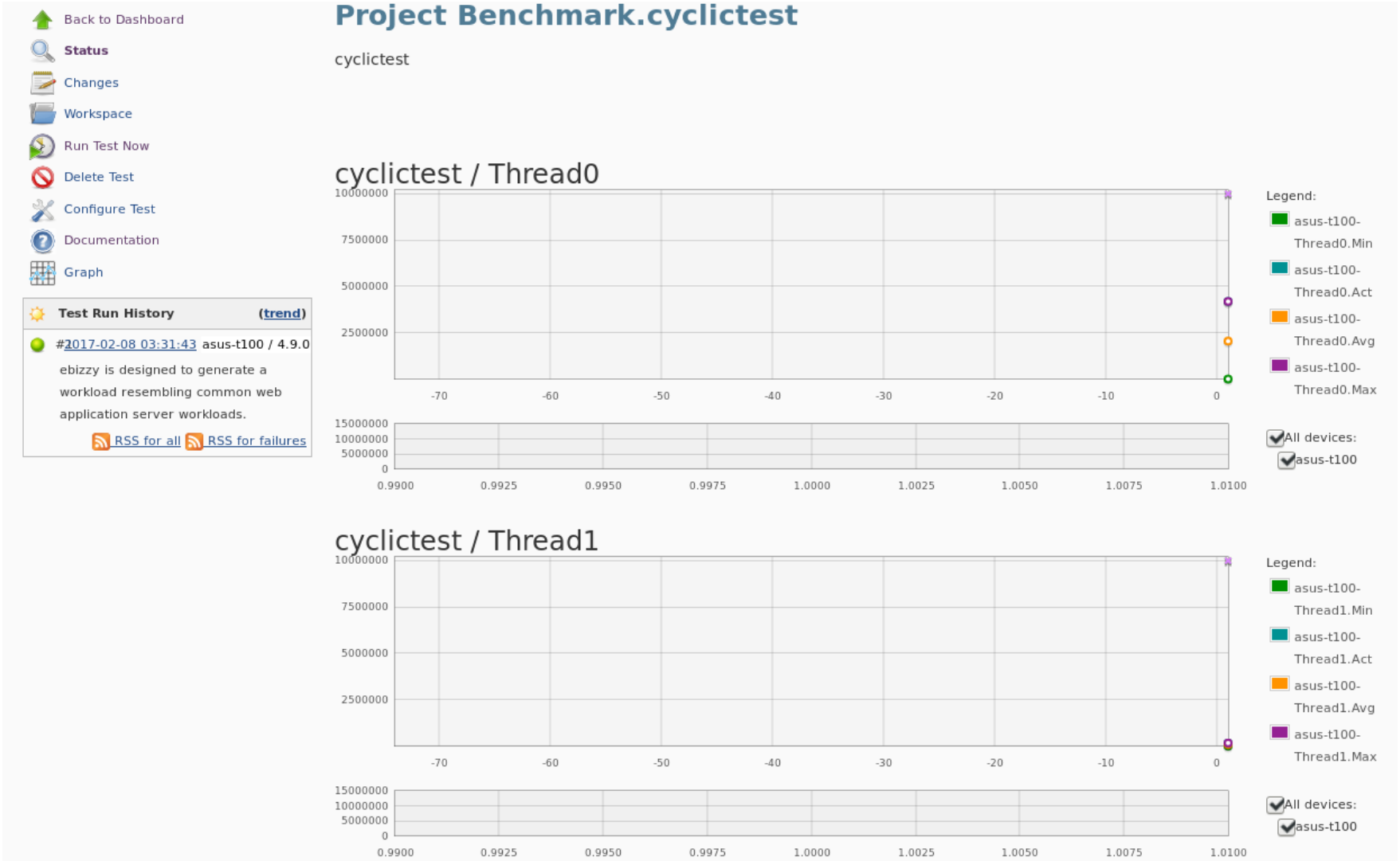
Tests list

S	W	Test Name w/ Status Color ↓	Test Priority	Last Duration	Device
		Functional.aiostress	360	N/A	asus-t100
		Functional.arch_timer	360	13 sec	asus-t100
		Functional.bc	150	9.8 sec	asus-t100
		Functional.bzip2	360	10 sec	blaszak
		Functional.cmt	360	N/A	N/A
		Functional.crashme	360	14 sec	asus-t100
		Functional.expat	230	49 sec	asus-t100
		Functional.fontconfig	300	11 sec	asus-t100
		Functional.ft2demos	360	44 sec	asus-t100
		Functional.glib	160	2 min 10 sec	asus-t100
		Functional.hello_world	150	17 sec	asus-t100
		Functional.ipv6connect	360	N/A	N/A
		Functional.jpeg	360	15 sec	asus-t100
		Functional.libpng	360	92 ms	asus-t100
		Functional.linus_stress	360	31 sec	asus-t100
		Functional.LTP.Devices	90	N/A	N/A
		Functional.LTP.Filesystem	70	N/A	N/A
		Functional.LTP.Open_Posix	70	11 min	asus-t100
		Functional.netperf	230	11 min	asus-t100
		Functional.OpenSSL	200	29 sec	asus-t100
		Functional.pi_tests	360	19 sec	asus-t100
		Functional.posixtestsuite	360	14 min	blaszak
		Functional.rmaptest	360	11 sec	blaszak

Fuego - benchmarks

S	W	Test Name w/ Status Color ↓	Test Priority	Last Duration	Device
		Benchmark.aim7	230	N/A	asus-t100
		Benchmark.blobsallad	230	N/A	blaszak
		Benchmark.bonnie	150	N/A	N/A
		Benchmark.cyclictest	150	25 sec	asus-t100
		Benchmark.dbench	200	48 sec	blaszak
		Benchmark.Dhrystone	230	14 sec	blaszak
		Benchmark.ebizzy	150	1 min 48 sec	asus-t100
		Benchmark.ffsb	230	N/A	N/A
		Benchmark.fio	140	N/A	N/A
		Benchmark.GLMark	160	N/A	N/A
		Benchmark.gtkperf	240	N/A	N/A
		Benchmark.hackbench	150	5.8 sec	blaszak
		Benchmark.himeno	200	16 sec	asus-t100
		Benchmark.Interbench	60	N/A	blaszak
		Benchmark.IOzone	160	53 sec	blaszak
		Benchmark.iperf	280	N/A	N/A
		Benchmark.Java	100	N/A	N/A
		Benchmark.linpack	240	43 sec	asus-t100
		Benchmark.lmbench2	10	N/A	N/A
		Benchmark.nbench-byte	150	N/A	N/A
		Benchmark.netperf	240	N/A	N/A
		Benchmark.netpipe	280	N/A	N/A
		Benchmark.OpenSSL	100	N/A	N/A
		Benchmark.reboot	7777	N/A	N/A

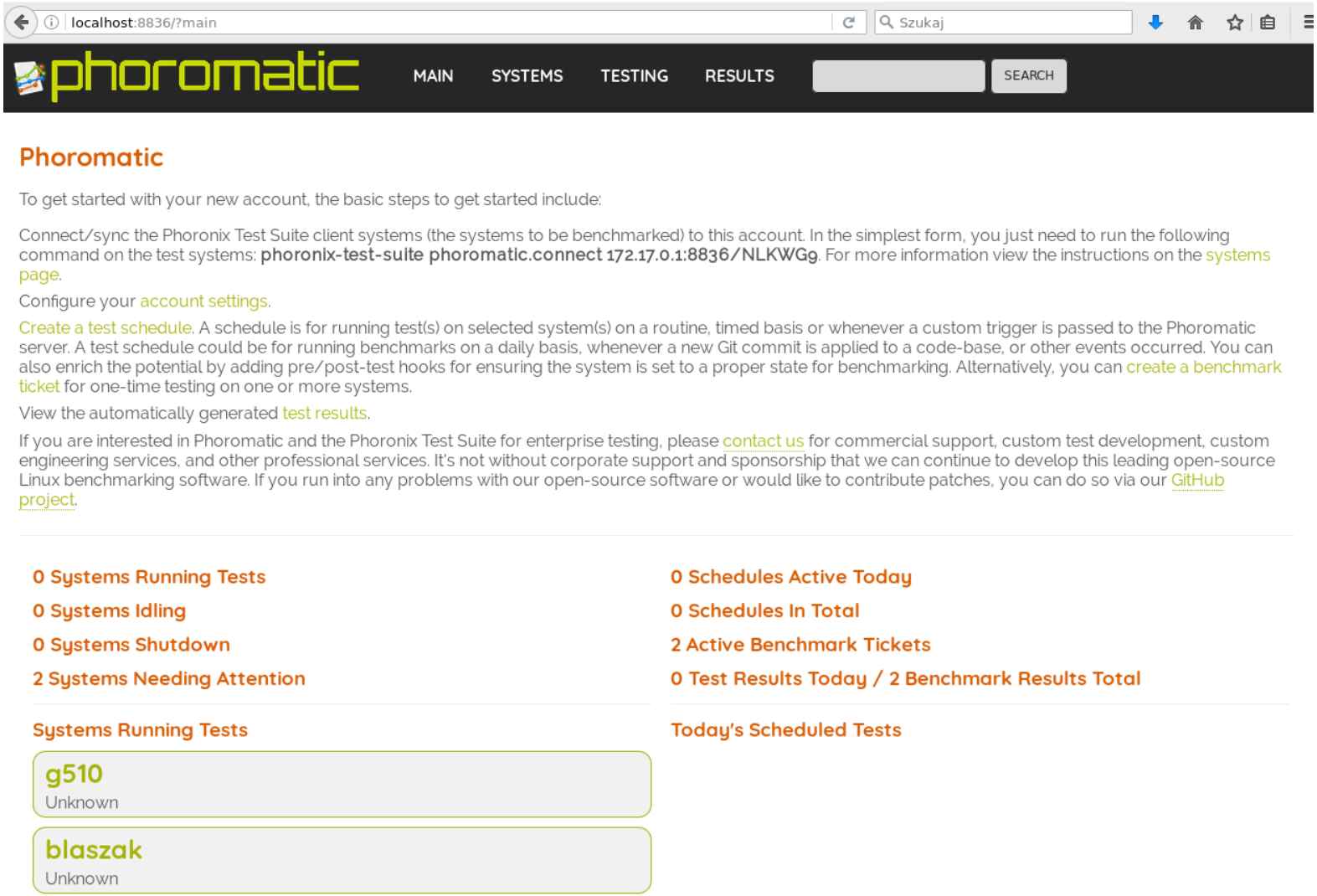
Fuego - benchmarks - wyniki



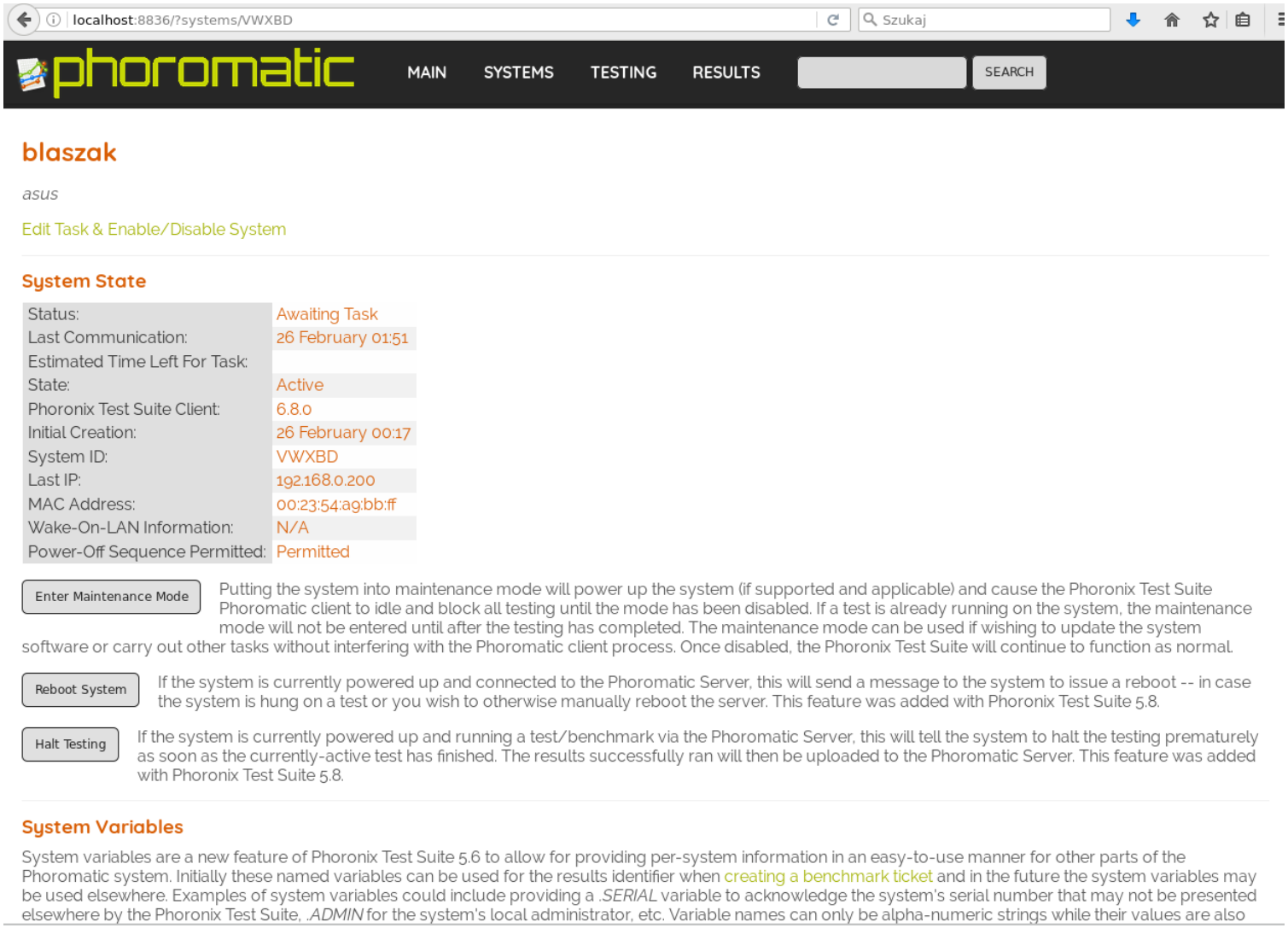
Phoronix test suite

- uruchomienie testu: phoronix-test-suite benchmark smallpt
- webui: phoronix-test-suite start-phoromatic-server
- dodanie maszyny: phoronix-test-suite phoromatic.connect ip:port/token

Phoromatic


localhost:8836/?main
Szukaj
phoromatic
MAIN
SYSTEMS
TESTING
RESULTS
SEARCH
Phoromatic
To get started with your new account, the basic steps to get started include:
Connect/sync the Phoronix Test Suite client systems (the systems to be benchmarked) to this account. In the simplest form, you just need to run the following command on the test systems: phoronix-test-suite phoromatic.connect 172.17.0.1:8836/NLKWG9. For more information view the instructions on the systems page.
Configure your account settings.
Create a test schedule. A schedule is for running test(s) on selected system(s) on a routine, timed basis or whenever a custom trigger is passed to the Phoromatic server. A test schedule could be for running benchmarks on a daily basis, whenever a new Git commit is applied to a code-base, or other events occurred. You can also enrich the potential by adding pre/post-test hooks for ensuring the system is set to a proper state for benchmarking. Alternatively, you can create a benchmark ticket for one-time testing on one or more systems.
View the automatically generated test results.
If you are interested in Phoromatic and the Phoronix Test Suite for enterprise testing, please contact us for commercial support, custom test development, custom engineering services, and other professional services. It's not without corporate support and sponsorship that we can continue to develop this leading open-source Linux benchmarking software. If you run into any problems with our open-source software or would like to contribute patches, you can do so via our GitHub project.
0 Systems Running Tests
0 Systems Idling
0 Systems Shutdown
2 Systems Needing Attention
0 Schedules Active Today
0 Schedules In Total
2 Active Benchmark Tickets
0 Test Results Today / 2 Benchmark Results Total
Systems Running Tests
Today's Scheduled Tests
g510
Unknown
blaszak
Unknown

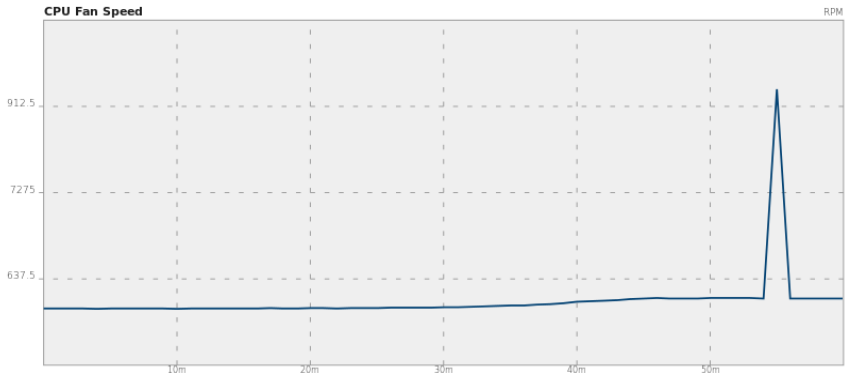
Phoromatic - maszyna testowa

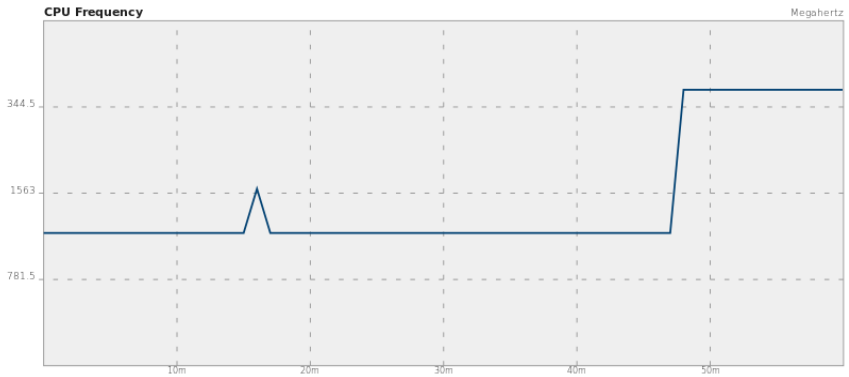


Phoromatic - maszyna testowa - szczegóły

System Components

Processor	Intel Pentium E5200 @ 2.50GHz (2 Cores)	OS	Linux
Motherboard	ASUS P5QL PRO	Kernel	4.9.0 (i686)
Chipset	Intel 4 DRAM + ICH10	Display Server	X Server 1.18.0
Memory	4096MB	Compiler	GCC 4.9.4 + Clang 3.9.0 + LLVM 3.9.0
Disk	160GB Seagate ST3160815AS	File-System	ext4
Graphics	ASUS NVIDIA GeForce 8600 GT 512MB	Screen Resolution	1920x1080
Audio	Realtek ALC1200		
Monitor	PLE2483H		
Network	Qualcomm Atheros AR8121/AR8113/AR8114		





Phoromatic - przygotowanie testu

Local Suites

Find already created local test suites by your account/group via the local suites page.

Build Suite

A test suite in the realm of the Phoronix Test Suite, OpenBenchmarking.org, and Phoromatic is a collection of test profiles with predefined settings. Establishing a test suite makes it easy to run repetitive testing on the same set of test profiles by simply referencing the test suite name.

Title:

Suite Version:

1.0.0

Description:

Tests In Schedule:

Remove Test

AIO-Stress [pts/aio-stress-1.1.1]

AIO-Stress is an a-synchronous I/O benchmark created by SuSE. Current this profile uses a 2048MB test file and a 64KB record size.

More information on this test can be found via OpenBenchmarking.org.

Test

Random Write

Add Another Test

Create Suite

Phoromatic - wyniki

Dziękuję