

KaNaPi

Co chcesz dziś zbudować?

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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.)

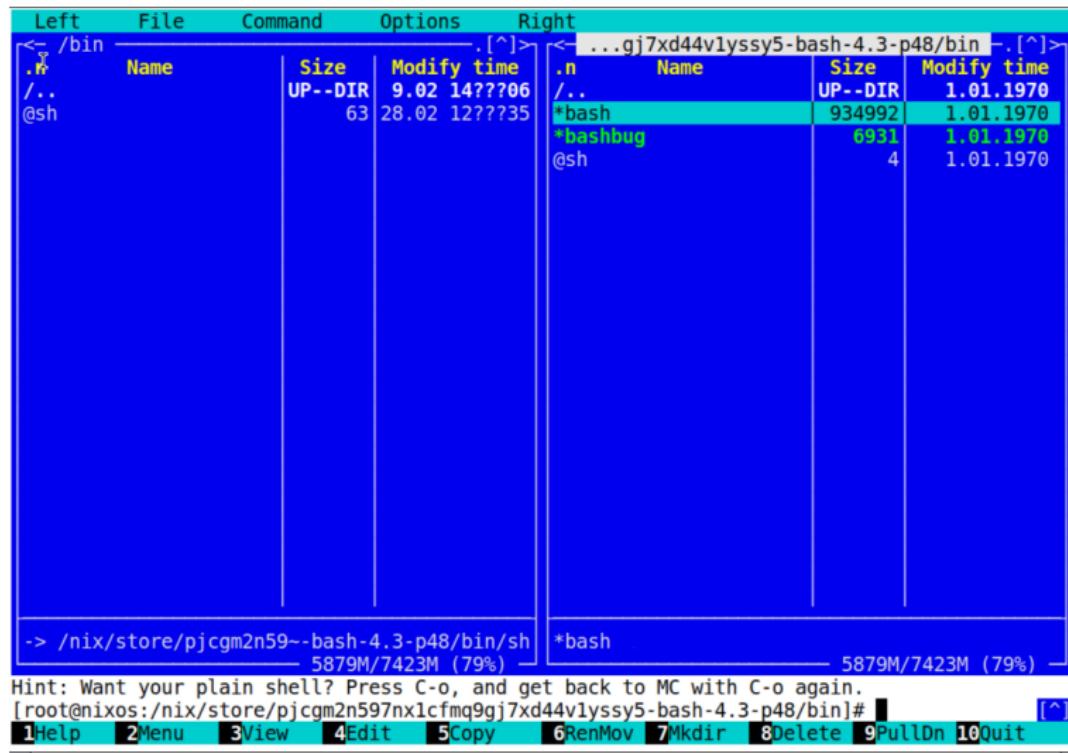
- Slax

- 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 → loop device
- AUFS
- <https://www.slax.org/en/documentation.php>

Gobolinux

Left	File	Command	Options	Right					
[.]> <- /Programs/Bash/4.4				[^]>					
.	Name	Size	Modify time	.	Name	Size	Modify time		
/Data		4096	Nov 27 17:18	..		UP--DIR	Dec 2 02:40		
/Mount		4096	Dec 13 21:37	/Resources		4096	Sep 26 02:43		
/Programs		12288	Feb 27 20:51	/bin		4096	Dec 2 02:39		
/System		4096	Dec 13 21:35	/include		4096	Sep 23 19:45		
/Users		4096	Dec 13 21:37	/lib		4096	Sep 23 19:45		
-bin		16	Dec 13 23:29	/share		4096	Sep 23 19:45		
-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				/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



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 -- \
ea06c5b9579d6367574454e1ccfda04a40dd5b4bb51957204648843311cbfe26 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

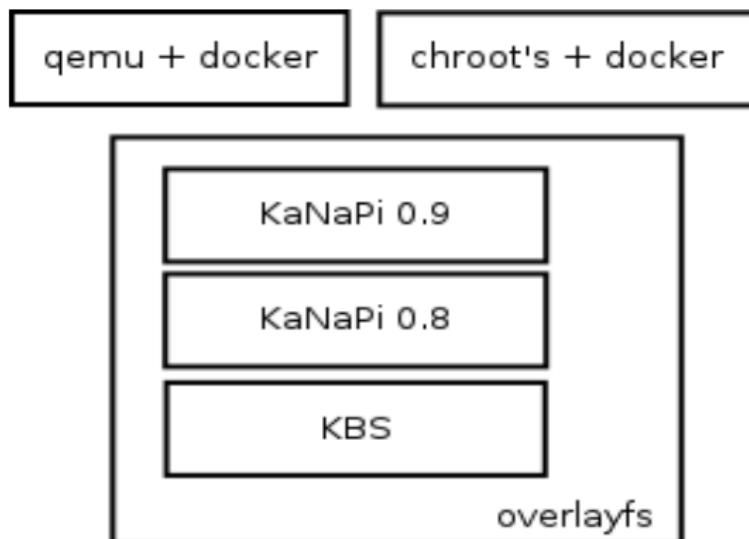
Debug Mode (client): false

Debug Mode (server): false

Registry: https://index.docker.io/v1/

Insecure Registries:

 127.0.0.0/8



- chroot na montowanym FS dla dockera

KaNaPi - układ katalogów

Lewy	Plik	Polecenie	Opcje	Prawy
~ /			[^]>	[^]> /kanapi_0.9/x86_64/packages
.	n Nazwa	Rozmiar	Czas modyfi	.
..		22 26.02 15:26		NADRZĘD
/bin		15140 26.02 15:26		24.02 11:48
/dev		200 28.02 12:07		4096 9.01 22:44
/etc		44 26.02 15:26		4096 9.01 10:23
-kanapi_0.8		60 1.01 22:26		4096 9.01 22:44
-kanapi_0.9		10 24.02 09:38		4096 9.01 22:36
/kanapi_build		4096 25.02 20:04		4096 9.01 21:14
-kanapi_external		29 24.02 09:32		4096 9.01 22:36
-kanapi_packages		49 24.02 23:54		4096 9.01 22:36
/kanapi_packages-old		28672 24.02 23:19		4096 9.01 22:36
/lib		120 1.01 22:41		4096 9.01 22:36
/mnt		220 27.11 18:22		4096 9.01 10:17
/opt		60 15.01.2016		4096 9.01 23:11
/proc		0 26.02 15:26		4096 9.01 21:10
/run		100 9.03.2016		4096 9.01 21:10
/sbin		80 6.06.2015		4096 9.01 23:10
/sys		0 26.02 15:26		4096 9.01 10:17
/tmp		520 28.02 13:56		4096 9.01 21:10
/usr		60 18.02 09:17		4096 9.01 10:09
-var		22 26.02 15:26		4096 9.01 10:09
*init		4326 25.02 16:46		4096 9.01 23:16
				4096 24.02 11:15
				4096 16.02 14:14
				4096 9.01 21:05
				4096 9.01 21:15
				4096 9.01 21:12
				4096 9.01 21:10
				4096 24.02 11:06
				4096 9.01 10:10
				NADRZĘD
				75G/144G (52%)
				5864M/5932M (98%)

Porada: można wyłączyć wszystkie żądania potwierdzenia w\ Opcje/Potwierdzenia.

g510:/#

[] 1Pomoc 2Menu 3Podglą 4Edycja 5Kopiuj 6Przen 7UtwóKat 8Usuń 9Wódt 10Kończ

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}
----- gobolinus  ---
: Loading lists... \
http://gobolinus.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

Lewy	Plik	Polecenie	Opcje	Prawy
` /kanapi external/internal-binary-distros`				
.	Nazwa	Rozmiar	Czas modyfi	
	NADRZED		[^]	
-arch32		39	22.10 01:54	
/arch32-mount		4096	9.02 12:38	
-arch64		31	22.10 01:54	
/arch64-mount		4096	9.02 12:25	
/crux		4096	1.03 00:04	
/crux-mount		4096	9.02 17:06	
/debian		4096	1.03 00:04	
/debian-mount		4096	9.02 12:39	
-exherbo		47	14.02 21:33	
/exherbo-mount		4096	14.02 21:33	
/fedora		4096	1.03 00:04	
/fedora-mount		4096	1.03 00:04	
-gentoo		46	14.02 18:19	
/gentoo-mount		4096	14.02 18:19	
-gobolinux		34	1.02 20:46	
/gobolinux-mount		4096	9.02 16:08	
/lost+found		4096	26.01.2013	
/lunar		4096	1.03 00:04	
/lunar-mount		4096	28.02 23:19	
/mint		4096	1.03 00:04	
/mint-mount		4096	9.02 12:39	
/nutyx		4096	1.03 00:04	
/nutyx-mount		4096	28.02 23:01	
-opensuse		33	29.01 23:07	
/opensuse-mount		4096	9.02 12:35	
-void		44	14.02 23:11	
/void-mount		4096	14.02 23:11	
-dist_start		811	26.10 19:42	
-game_start		973	9.02 17:50	
-versions		1083	1.03 01:30	
NADRZED				
20G/148G (13%)				
NADRZED				
39G/413G (9%)				
Porada: ustawienie zmiennej CDPATH może zaoszczędzić pisania przy cd.				
d510:/kanapi external/internal-binary-distros#				
1Pomoc	2Menu	3Podgl&d	4Edycja	5Kopij
6Przen	7JtwKat	8Usuń	9W&dot	10Koncz

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	PlatformIO	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++
Nutyyx	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 → pełny system
 - kompilatory, rootfs, BBS (36 pakietów)
 - pozostałe pakiety
- w aktualnym systemie → 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

Jenkins Jenkins Open Blue Ocean Szukaj... admin | Wyloguj WŁĄCZ AUTOMATYCZNE ODSYŁANIE

KaNaPi CI [edytuj opis](#)

S	P	Nazwa	Ostatni sukces	Ostatni błąd	Czas trwania	Built On	Fav	Type	Last Failure Version	Last Success Date
✓	☀️	redownload on master	#3	—	18 min	jenkins	★	Freestyle	N/A	N/A
✓	☀️	Jenkins tests on t100	#1	8 dni 0 godz -	0.47 sek	t100	★	Freestyle	N/A	N/A
✓	☀️	Jenkins tests on slaves	#2	7 dni 23 godz -	1.2 sek	blaszak	★	Matrix	N/A	N/A
!	☀️	prepare SBS	#3	6 dni 14 godz -	1 dzień 2 godz - #3	jenkins	★	Matrix	2017-02-26 21:23:30 (8)	N/A
!	☀️	prepare SBS on t100	#3	6 dni 11 godz -	6 min 11 sek	t100	★	Freestyle	N/A	N/A
!	☀️	test SBS on t100	#3	6 dni 11 godz -	1 min 2 sek	t100	★	Freestyle	N/A	N/A
✓	☀️	Jenkins tests on zbook	#1	6 dni 10 godz -	—	zbook	★	Freestyle	N/A	N/A
✓	☀️	build_all	#1	5 dni 22 godz -	—	jenkins	★	Matrix	N/A	N/A
✓	☀️	build.on master	#4	5 dni 12 godz -	5 dni 15 godz - #3	jenkins	★	Freestyle	2017-02-22 08:34:17 (3)	N/A
✓	☀️	Jenkins tests on g580	#2	5 dni 6 godz -	—	g580	★	Freestyle	N/A	N/A
✓	☀️	update git.on g580	#10	5 dni 5 godz -	5 dni 5 godz - #1	g580	★	Freestyle	2017-02-22 17:35:31 (1)	N/A
✓	☀️	prepare SBS on g580	#12	5 dni 1 godz -	5 dni 1 godz - #11	g580	★	Freestyle	2017-02-22 21:43:05 (1)	N/A
✓	☁️	test SBS on g580	#2	5 dni 1 godz -	5 dni 5 godz - #1	g580	★	Freestyle	2017-02-22 17:48:52 (1)	N/A
!	☀️	prepare SBS on zbook	#2	5 dni 0 godz -	—	zbook	★	Freestyle	N/A	N/A
!	☀️	test SBS on zbook	#2	5 dni 0 godz -	30 sek	zbook	★	Freestyle	N/A	N/A
✓	☀️	Jenkins tests on blaszak	#15	3 dni 12 godz -	—	blaszak	★	Freestyle	N/A	N/A
✓	☀️	prepare cross compilers on blaszak	#2	3 dni 12 godz -	15 min	blaszak	★	Freestyle	N/A	N/A

Kolejka zadań Nie ma zadań w kolejce

Status wykonawców zadań

master	Bezczynny
blaszak	Bezczynny
blaszak	Bezczynny
g580 (rozłączony)	Bezczynny
t100	Bezczynny
zbook	Bezczynny

Wybrana maszyna w Jenkinsie

Błaszak	CI	G510	G580	Jenkins	Slaves	T100	Zbook	Wszystkie	+	
S	P	Nazwa				Ostatni sukces ↑		Ostatni błąd	Czas trwania	
		build on blaszak				23 godz - #10		5 dni 14 godz - #5	13 godz	
		build BBS using SBS on blaszak				1 dzień 0 godz - #4		6 dni 11 godz - #1	42 min	
		update git on blaszak				1 dzień 0 godz - #12		—	1,7 sek	
		get SBS from blaszak				1 dzień 1 godz - #9		1 dzień 1 godz - #7	9,5 sek	
		test SBS on blaszak				1 dzień 1 godz - #7		7 dni 23 godz - #1	24 sek	
		prepare SBS on blaszak				1 dzień 1 godz - #7		—	3 min 1 sek	
		rebuild on blaszak				2 dni 0 godz - #5		2 dni 7 godz - #2	12 sek	
		prepare FBS on blaszak				3 dni 11 godz - #1		—	50 min	
		prepare cross_compilers on blaszak				3 dni 12 godz - #2		—	15 min	
		Jenkins tests on blaszak				3 dni 12 godz - #15		—	2,8 sek	
		rebuild program on blaszak				—		—	nd.	

Ikonka: S M L

Legenda RSS Dla wszystkich RSS Tylko niepowodzenia RSS Tylko dla najnowszych



Maszyny w Jenkinsie

Kolejka zadań (1)

[update git on t100](#) 

Status wykonawców zadań

Wydanie	Stan
master	Bezczynny
blaszak	Bezczynny
g580 (rozłączony)	
t100	build BBS using SBS on t100 #7 
zbook	Bezczynny

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 build all in pipeline on zbook > Pipeline build all in pipeline on zbook

Open Blue Ocean Szukaj... admin Wyloguj

WŁAŚCIWY AUTOMATYCZNE ODKRYWANIE dodaj opis

Back to Dashboard Status Changes Uruchom Usuń Pipeline Konfiguruj Move Full Stage View Failure Cause Management Failure Scan Options Embeddable Build Status Test Results Analyzer Pipeline Syntax

Historia zadań trend =

szukaj

#10 2017-03-02 10:52
#9 2017-03-02 09:52
#8 2017-03-02 09:43
#7 2017-03-01 23:47
#6 2017-03-01 23:45
#5 2017-03-01 22:48
#4 2017-03-01 20:13
#3 2017-03-01 20:11
#2 2017-03-01 15:52
#1 2017-03-01 15:44

RSS Dla wszystkich RSS dla nieudanych

Pipeline build all in pipeline on zbook

Stage View

Average stage times:

	preparation	configuration	build BBS	build ALL	cleanup
#10 Mar 02 No changes	313ms	305ms	588ms	51s	327ms
#9 Mar 02 No changes	309ms	298ms	578ms	51min 1s failed	
#8 Mar 02 No changes	312ms	299ms	570ms	55s failed	
#7 Mar 02 No changes	310ms	305ms	569ms	1h 11min failed	
#6 Mar 02 1 commit	313ms	298ms	575ms	5s failed	
#5 Mar 01 1 commits	319ms	303ms	12min 37s	35min 1s failed	

Odnosniki niezmienne

- Ostatnie zadanie (#10), 1 min 56 sek temu
- Ostatnie stabilne zadanie (#10), 1 min 56 sek temu
- Ostatnie pomyslnie zadanie (#10), 1 min 56 sek temu
- Ostatnie niepomylnie zadanie (#9), 1 godz 1 min temu
- Ostatnie niepomylnie zadanie (#9), 1 godz 1 min temu
- Ostatnie zakonczone zadanie (#10), 1 min 56 sek temu

Pomóż nam przetłumaczyć stronę Strona wygenerowana: 2017-03-02 10:54:03 GMT REST API Jenkins ver. 2.42

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

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

The screenshot shows a GitHub repository page for `j danecki / kanapi`. The top navigation bar includes links for Personal, Open source, Business, Explore, Pricing, and a search bar. The repository header shows 2 watches, 1 star, and 2 forks. Below the header, there are tabs for Code, Issues (0), Pull requests (0), Projects (0), Wiki, Pulse, and Graphs. A dropdown menu indicates the current branch is master.

The main content area displays two sections of commits:

- Commits on Feb 27, 2017**
 - `don't use linker in CI for verification` - j danecki committed 2 hours ago. Status: All checks have passed (5 successful checks). Details: daa941c, clacb38, 654cc41.
 - `try to download once again` - j danecki committed a day ago. Status: Shippable — Run 19 status is SUCCESS.
 - `add black background to lc` - j danecki committed a day ago. Status: ci/circleci — Your tests passed on CircleCI!
 - `continuous-integration/codeship` — Build ...
 - `continuous-integration/travis-ci/push` — ...
 - `semanhoreci` — The build passed on Seman...
- Commits on Feb 26, 2017**
 - `don't continue after SBS re` - j danecki committed a day ago.
 - `add remove-sbs option to configure` - j danecki committed a day ago.
 - `gcc: add test for libgomp library` - j danecki committed a day ago.
 - `add rebuild target for Jenkins config` - j danecki committed a day ago.

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 CI Blog Status Help Jacek Danecki

Search all repositories

j danecki / kanapi

Build History Pull Requests More options

My Repositories	Current	Branches	Build History	Pull Requests
<p>✓ j danecki/kanapi # 99 ⌚ Duration: 27 min 31 sec 📅 Finished: about 10 hours ago</p>	<p>✓ master don't use linker in CI for verification ⌚ Jacek Danecki 27 min 31 sec ⌚ about 10 hours ago</p>			
<p>✗ j danecki/kanapi-ci # 30 ⌚ Duration: 45 min 35 sec 📅 Finished: 6 days ago</p>	<p>✗ master try to download once again when we get it ⌚ Jacek Danecki 1 min 22 sec ⌚ a day ago</p>			
<p>✓ j danecki/ci-tests # 22 ⌚ Duration: 2 min 5 sec 📅 Finished: 12 days ago</p>	<p>✓ master don't assume git repo is in /kanapi_build ⌚ Jacek Danecki 26 min 24 sec ⌚ 3 days ago</p>			
	<p>✓ v0.8 update template ⌚ Jacek Danecki 31 min 50 sec ⌚ 4 days ago</p>			
	<p>✓ master update template ⌚ Jacek Danecki 26 min 5 sec ⌚ 4 days ago</p>			
	<p>✓ master BBS: build file as first package ⌚ Jacek Danecki 30 min 14 sec ⌚ 6 days ago</p>			
	<p>✗ master perl: build and install with 1 make job ⌚ Jacek Danecki 7 min 3 sec ⌚ 6 days ago</p>			
	<p>✗ master add verification for html files ⌚ Jacek Danecki 4 min 13 sec ⌚ 6 days ago</p>			
	<p>✓ master llvm: limit number of ninja jobs to CPU cores ⌚ Jacek Danecki 24 min 40 sec ⌚ 7 days ago</p>			
	<p>✓ master create md5sum for SBS ⌚ Jacek Danecki 25 min 42 sec ⌚ 8 days ago</p>			

Travis build log

j danecki / kanapi  build failing

Current Branches Build History Pull Requests > Build #99

More options 

✓ master don't use linker in CI for verification

-> #99 passed

 Restart build

Signed-off-by: Jacek Danecki
jacek.m.danecki@gmail.com

 Ran for 27 min 31 sec

 about 10 hours ago

-  Commit daa941c
-  Compare [lack38.daa941c](#)
-  Branch master

 Jacek Danecki authored and committed

Job log

View config

 Remove log  Raw log

```
> 1 Worker information
> 6 Build system information
> 73
> 74 $ export DEBIAN_FRONTEND=noninteractive
> 75 $ git clone --depth=50 --branch=master https://github.com/j danecki/kanapi.git j danecki/kanapi
> 76
> 77 This job is running on container-based infrastructure, which does not allow use of 'sudo', setuid and setgid
> 78 executables.
> 79 If you require sudo, add 'sudo: required' to your .travis.yml
> 80 See https://docs.travis-ci.com/user/workers/container-based-infrastructure/ for details.
> 81 $ export CC=gcc
> 82 $ gcc --version
> 83 gcc (Ubuntu/Linaro 4.6.3-1ubuntu5) 4.6.3
> 84 Copyright (C) 2011 Free Software Foundation, Inc.
> 85 This is free software; see the source for copying conditions. There is NO
> 86 warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
> 87
> 88 $ ./configure && make && make test
> 89 GNU Wget 1.13.4 built on linux-gnu.
> 90
> 91 +digest +https +ipv6 +iri +large-file +mls +ntlm +opie +ssl/openssl
> 92
> 93 Mgetrc:
> 94   - (http://travis-ci.org/j danecki/kanapi)
```



Codeship

Jacek Danecki > Select Project...

jdanecki/kanapi

Project Settings

View Docker based builds

Build	Description	Status	Actions
 jdanecki/kanapi: don't use linker in CI for verification Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>	jdanecki daa941cb master 33 min 32 sec 10 hours ago	SUCCESS	
 jdanecki/kanapi: try to download once again when we get rubbish Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>	jdanecki c1ac93b5 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 Danecki <jacek.m.danecki@gmail.com>	jdanecki 82td625b 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 83f98eb0 master 33 min 7 sec 0:23 2017-02-24	SUCCESS	
 jdanecki/kanapi: update template Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>	jdanecki 83f98eb0 master 31 min 17 sec 0:46 2017-02-24	SUCCESS	
 jdanecki/kanapi: BBS: build file as first package This is workaround for system with older version of BBS	jdanecki afe4e469 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.m.danecki@gmail.com>	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@gmail.com>	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 <jacek.m.danecki@gmail.com>	jdanecki 89f586b1 master 30 min 31 sec 0:44 2017-02-21	SUCCESS	
 jdanecki/kanapi: create md5sum for SBS Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>	jdanecki 4312ee04 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.m.danecki@gmail.com>	jdanecki 4312ee04 master 32 min 56 sec 0:44 2017-02-20	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

j danecki/kanapi: don't use linker in CI for verification Signed-off-by: Jacek Danecki <jacek.m....
j danecki daa941c8 master 33 min 32 sec 10 hours ago SUCCESS

TEST COMMANDS

1 Exporting Environment	0 min 4 sec	✓
2 git clone --branch "master" --depth 50 git@github.com:j danecki/kanapi.git ~/src/github.com/j danecki/kanapi	0 min 3 sec	✓
3 cd clone	0 min 1 sec	✓
4 git checkout -qf daa941c8a3982bddc2d10608680e70e488149a88	0 min 1 sec	✓
5 Preparing Dependency Cache	0 min 8 sec	✓
6 Preparing Virtual Machine	0 min 25 sec	✓
7 ./configure && make	32 min 55 sec	✓
8 make test	0 min 1 sec	✓

Build options

Run this build again

Review Test Settings

Reset Dependency Cache

Open SSH Debug Session

Read more in our [blog post](#) and our [docs](#)

Try ParallelCI

Codeship build log

6 Preparing Virtual Machine 0 min 25 sec ✓
7 ./configure && make 32 min 55 sec ✓

```
GNU Wget 1.15 built on linux-gnu.

*digest +https +ipv6 +iri +large-file +nls +ntlm +opie +ssl/openssl

wgetrc:
/etc/wgetrc (system)
Locale:
/usr/share/locale
Config:
gcc -DHAVE_CONFIG_H -DSYSTEM_WGETRC=\"/etc/wgetrc"
-DLOCATEDIR=\"/usr/share/locale\" -I,-I.,-I./src -Llib
-I./../lib -D_FORTIFY_SOURCE=2 -I/usr/include -g -O2
-fstack-protector --param=ssp-buffer-size=4 -fformat
-werror=format-security -DNOLSSLV2 -D_FILE_OFFSET_BITS=64 -g -Wall
Link:
gcc -g -O2 -fstack-protector --param=ssp-buffer-size=4 -fformat
-werror=format-security -DNOLSSLV2 -D_FILE_OFFSET_BITS=64 -g -Wall
-Wl,-Bsymbolic-functions -Wl,-z,relro -L/usr/lib -lssl -lcrypto
-LdL -Lz -Lldn -Luid ftp-opie.o openssl.o http-ntlm.o
..lib/libgnutls.a

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<http://www.gnu.org/licenses/gpl.html>.
This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Originally written by Hrvoje Nikolic <hrv@cs.rup.ac.rs>.
Please send bug reports and questions to <bug-wget@gnu.org>.
curl 7.35.0 (x86_64-pc-linux-gnu) libcurl/7.35.0 OpenSSL/1.0.2 zlib/1.2.8 libidn/1.28 librtmp/2.3
Protocols: dict file ftp ftps gopher http https imap imaps ldap pop3s rtsp rtmp smtps telnet tftp
Features: AsynchDNS GSS-Negotiate IDN IPv6 Largefile NTLM NTLM_WB SSL libz TLS-SRP
gcc (Ubuntu 4.8.4-2ubuntu1~14.04.3) 4.8.4
Copyright (C) 2013 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

g++ (Ubuntu 4.8.4-2ubuntu1~14.04.3) 4.8.4
Copyright (C) 2013 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

PKG_CONFIG: 0.26
NR_CPUS=36
total       used      free     shared    buffers   cached
Mem:      1572640     661220   15067420    16601972          0   368560
buffers/cache:  292660   15435560
Swap:        0         0         0         0         0         0
Filesystem      Size  Used Avail Use% Mounted on
none            30G  410M  30G  2% /
none            493K  4.0K  488K  1% /dev
cgroup_root     18M     0    18M  0% /sys/fs/cgroup
none            5.9G  288K  5.9G  1% /run
```



Circle CI

Builds » jdanecki

By Project ▾ Mine All

Project	Branch	Status	Commit	Time Ago	SHA
jdanecki/kanapi	master	FIXED	jdanecki / kanapi / master #35 don't use linker in CI for verification	10 hr ago	45:31 d4a941c
		FAILED	jdanecki / kanapi / master #34 try to download once again when we get rubbish	1 day ago	01:11 c1a2b38
jdanecki/ci-tests	master	REBUILD			
		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	jdanecki / kanapi / master #25 perl: build and install with 1 make job	6 days ago	09:41 63322eb

Circle CI build

Builds » jdancki » kanapi » master » build 35

FIXED Finished: 9 hr ago (45:31) Previous: 34 Parallelism: 1x out of 4x Queued: 03:02 waiting + 0:00 in queue

Triggered by: Jacek Danecki (pushed daa941c)

COMMIT (1)
Jacek Danecki -> daa941c don't use linker in CI for verification

Test Summary Queue (03:02) Debug via SSH Artifacts circle.yml Build Timing

Set Up Test Summary

Show containers: All (1) Successful (1) Failed (0)

0 (45:20) INFRASTRUCTURE

Starting the build 00:07

Start container config 00:13

Enable SSH 00:04

INFRASTRUCTURE

Restore source cache cache 00:04

Checkout using deploy key: 0e:37:7c:de:52:09:05:29:d2:c6:a1:41:ab:19:9f:08 config 00:07

CHECKOUT

Configure the build cache 00:05

MACHINE

LOG OUT

Szukaj

Rebuild

?

Circle CI build log

The screenshot shows a CircleCI build log interface. On the left is a sidebar with navigation links: Builds, Insights, Projects, Team, Account Settings, Docs, Support, ChangeLog, and What's New. A 'LOG OUT' button is at the bottom. The main area has tabs for 'Builds' (selected), 'Logs' (highlighted in green), and 'Dependencies'. The 'Logs' tab shows a terminal session with the following commands and output:

```
$ ./configure
$ make -C ci-tests check_links
$ cd kanapi_system; uname -m ; make file ACTION=install
$ cd kanapi_system; uname -m ; make pkg-config ACTION=install
$ cd kanapi_system; uname -m ; make cache ACTION=install
$ cd kanapi_system; uname -m ; make busybox ACTION=install
$ cd kanapi_system; uname -m ; make bash-completion ACTION=install
```

Below these, a section titled 'DEPENDENCIES' lists several dependencies with their status and duration:

Dependency	Status	Duration
UI	00:02	00:02
UI	00:02	00:15
UI	02:29	02:29
UI	00:09	00:09
UI	01:08	01:08
UI	01:09	01:09

At the bottom of the log, there is a note: 'Exit code: 0'.

The bottom of the screen features a toolbar with various icons for navigating through the build logs.

Shippable

https://app.shippable.com/subscriptions/58a3a8d39b5dfa0f0043aae9/ci/dashboard | Szukaj

Jdanecki shippable Minion Usage: 0 of 1

CI Pipelines Settings

Run Status
Filters: All Statuses ▾
19 kanapi master Yesterday at 11:26 PM 1 hour Jacek Danecki daa941c8a3: don't use... Build ▾
7 kanapi-shippable master Last Wednesday at 5:50 PM 4 minutes Jacek Danecki a5de8ee7c9: check file... Build ▾
5 ci-tests master 02/16/2017 2 minutes Jacek Danecki 6efdc8eb8: test also ... Build ▾

Jacek Danecki && Kamil && Natalia

KaNaPi

4 marca 2017

50 / 73

Shippable builds

Jdanecki / ci-tests

shippable

Status Settings

ci-tests

Dashboard

History

Run History

Filters: All Types ▾ All Statuses ▾ All Branches ▾ Delete Builds

#	Build ID	Branch	Date	Duration	Author	Commit SHA	Message	Action
5	5	master	02/16/2017	2 minutes	Jacek Danecki	6efdc8eb8	test also with 36 threads for Codship testing Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>	Rebuild
4	4	master	02/16/2017	7 minutes	Jacek Danecki	9b93925146	adding threads test Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>	Rebuild
3	3	master	02/15/2017	5 minutes	Jacek Danecki	bd236ff6b1	get more info about CI systems	Rebuild
2	2	master	02/15/2017	6 minutes	Jacek Danecki	67e624a090	updated readme	Rebuild
1	1	master	02/15/2017	7 minutes	Jacek Danecki	aa4db54a73	add config for shippable service	Rebuild

Shippable build

≡ ⌂ j danecki / kanapi shippable

19.1

19 don't use linker in CI for verification Signed-off-by: J... Branch: master Language: c Sha: daa94fc1c8a2 Started: Yesterday at 11:26 PM Duration: an hour Queued: a few seconds Rebuild

Job Info Console Tests Coverage Scripts

19.1 Matrix Values Download

Step	Time	Status
Generating Job	0s	✓
Provision job node	0s	✓
Initializing Job	0s	✓
Job node info	1s	✓
pull_job_image	1s	✓
boot_container	3s	✓
setup_ve	0s	✓
git_sync	11s	✓
build_ci	46m 52s	✓
build_on_success	0s	✓
parse test reports	0s	✓
parse coverage reports	0s	✓
uploading coverage reports	0s	✓
uploading test reports	0s	✓

Shippable build log

git_sync

11s ✓

build_ci

46m 52s ✓

./configure && make && make test
GNU Wget 1.15 built on linux-gnu.

46m 52s

+digest +https +ipv6 +iri +large-file +nls +ntlm +opie +ssl/openssl

Wgetrc:
 /etc/wgetrc (system)

Locale:
 /usr/share/locale

Compile:
 gcc -DHAVE_CONFIG_H -DSYSTEM_WGETRC="/etc/wgetrc"
 -DLOCALEDIR="/usr/share/locale" -I. -I../../src -I../lib
 -I../../lib -D_FORTIFY_SOURCE=2 -I/usr/include -g -O2
 -fstack-protector --param=ssp-buffer-size=4 -Wformat
 -Werror=format-security -DN0_SSLv2 -D_FILE_OFFSET_BITS=64 -g -Wall

Link:
 gcc -g -O2 -fstack-protector --param=ssp-buffer-size=4 -Wformat
 -Werror=format-security -DN0_SSLv2 -D_FILE_OFFSET_BITS=64 -g -Wall
 -Wl,-Bsymbolic-functions -Wl,-z,relro -L/usr/lib -lssl -lcrypto
 -ldl -lz -lidn -luuid ftp-opie.o openssl.o http-ntlm.o
 ..//lib/libgnu.a

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Semaphore

https://semaphoreci.com/jdanecki

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

j danecki / kanapi PUBLIC

Educational operating system based on Linux <http://kanapi-project.blogspot.com/> — edit

Branches

master PASSED 10 hours ago

Set Up Deployment

Project Timeline

 PASSED j danecki pushed don't use linker in CI for verification to master and fixed the build. 10 hours ago

 FAILED j danecki pushed try to download once again when we get rubbish to master and broke the build. yesterday at 1:16am

 PASSED j danecki pushed don't assume git repo is in /kanapi_build directory to master. Friday at 9:22pm

 PASSED j danecki pushed update template to master. Friday at 8:46am

 PASSED j danecki pushed BBS: build file as first package to master and fixed the build. Wednesday at 5:05pm

 FAILED j danecki pushed perl: build and install with 1 make job to master. Wednesday at 2:25pm

 FAILED j danecki pushed add verification for html files to master and broke the build. Wednesday at 10:07am

 PASSED j danecki pushed llvm: limit number of ninja jobs to CPU count to master. on Feb 21

 PASSED j danecki pushed create md5sum for SBS to master. on Feb 20

 PASSED j danecki pushed ci: disable verbose mode on Shippable to master. on Feb 16

Semaphore build

jdanecki / kanapi PUBLIC

* Add-ons Project settings

Branch: master

Create pull request

don't use linker in CI for verification

Signed-off-by: Jacek Danecki <jacek.m.danecki@gmail.com>

 jdanecki created a build based on revision [daa941c](#) 10 hours ago

[View changes](#)

PASSED



build 22



22:46

 Job #1

22:46

[Hide setup commands](#)

[Launch SSH](#)

```
./configure
```

00:00

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

00:00

```
make && make test
```

22:24



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

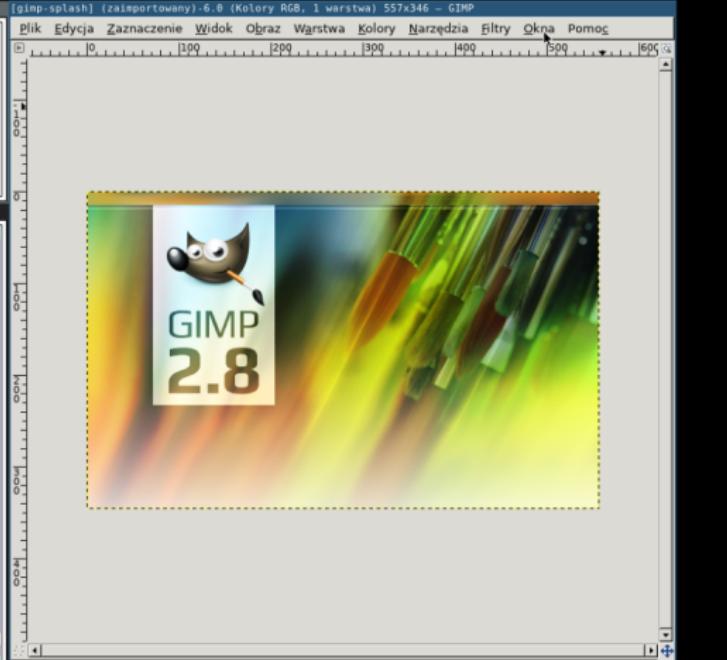
login

```
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
```

nc [kanapi@none]:/

Log	PR#	Polyaxon	Opus	Pyro			
	package	name	version	commit	name	version	commit
✓	None	Rosario	23.02	01.95	bitn	36300	23.02.01.95
...					Alex	15000	20.02.11.25
/imageMagick-7.0.3-10		40%	22.02	05.45	Zeta	160	23.02.04.55
/Python-2.7.13		40%	22.02	04.55	Anapai_0.8	60	23.02.04.55
/PyTorch-1.2.2		40%	22.02	04.55	PyTorch_packages	34	23.02.04.55
/PyTorch-2.0.25		40%	22.02	04.56	71h	60	22.02.03.34
/SLURM-1.12.12		40%	22.02	04.56	pydogenes	12288	23.02.04.59
/SSL/TLS-2.0.11		40%	22.02	05.46	pyroc	0	20.02.11.25
/VM-Knoppix-port-1.11		40%	22.02	05.36	pyrot	40	5.02.13.41
/VM-Power-2.36		40%	22.02	03.44	Pyro	100	20.02.11.25
/VM-SK8-0.99		40%	22.02	05.36	Pyroin	32	20.02.11.25
/VM-WM-1.0.0		40%	22.02	05.36	Pyroin	0	20.02.11.25
/VM-X-0.98-Egypt-0.51		40%	22.02	05.36	Pyroin	100	20.02.11.25
/VM-X-1.0.0		40%	22.02	05.36	Var	120	23.02.04.55
/VM-Simple-2.22		40%	22.02	05.36	Unit	9	23.02.00.04
/acl-2.2.52		40%	22.02	02.57	Unit-test-14k	2460	23.02.00.02
/akwata-ic-cm-3.22.0		40%	22.02	10.03			
/alsa-lib-1.1.2		40%	22.02	03.34			
/amara-0.11.2.2		40%	22.02	03.34			
/atd-2.0.0		40%	22.02	02.55			
/atx-2.4.40		40%	22.02	02.57			
/audiofile-0.3.3.6		40%	22.02	03.35			
/autoconf-2.69		40%	22.02	02.42			
/autowake-1.15		40%	22.02	02.42			
/azul-0.1.22		40%	22.02	19.13			
/azul-4.4		40%	19.02	19.13			
/backtrace-0.1.0		40%	19.02	02.30			
/brotli-decompression-2.4		40%	22.02	02.30			
/bc-1.06.95		40%	22.02	03.23			
/btrfsync-1.0.5		40%	22.02	03.46			
/bridgeproto-1.1.2		40%	22.02	03.39			

Porada: aby zaznaczyć katalogi w oknie zaznaczania, należałoby dodać znak / po nazwie katalogu.



Fuego

localhost:8080/fuego/

Szukaj

ENABLE AUTO REFRESH

New Test
People
Test Run History
Edit Dashboard
Documentation
Manage Jenkins
Scripter
Exclusion administration

Test Run Queue
No test runs in the queue.

Targets Status

#	Master
1	idle
2	idle
	asus-t100
1	idle
	błeszak
1	idle
	inger (offline)
	inger2 (offline)
	gemu-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	0_E6	Feb 8, 2017 1:42:20 PM		błeszak
KaNaPi_HelloWorld	0_E5	Feb 8, 2017 1:42:08 PM		asus-t100
KaNaPi_HelloWorld	0_E4	Feb 8, 2017 1:07:39 PM		asus-t100
KaNaPi_HelloWorld	0_E3	Feb 8, 2017 1:07:31 PM		błeszak
KaNaPi_HelloWorld	0_E2	Feb 8, 2017 1:05:14 PM		błeszak
KaNaPi_HelloWorld	0_E1	Feb 8, 2017 12:56:16 PM		błeszak
Benchmark_hackbench	0_E1	Feb 8, 2017 4:30:00 AM		błeszak
Benchmark_dberch	0_E1	Feb 8, 2017 4:29:11 AM		błeszak
Benchmark_ebözzy	0_E1	Feb 8, 2017 3:32:09 AM		asus-t100
Benchmark_cyclitest	0_E1	Feb 8, 2017 3:31:43 AM		asus-t100
Benchmark_imreno	0_E1	Feb 8, 2017 3:31:26 AM		asus-t100
Benchmark_lnpack	0_E1	Feb 8, 2017 3:30:43 AM		asus-t100
Benchmark_tbbselfad	0_E1	Feb 8, 2017 3:29:09 AM		błeszak
Benchmark_Whetstone	0_E1	Feb 8, 2017 3:29:05 AM		błeszak
Benchmark_Stream	0_E1	Feb 8, 2017 3:28:59 AM		błeszak
Functional_posixtestsuite	0_E2	Feb 8, 2017 3:14:43 AM		błeszak
Benchmark_gim7	0_E1	Feb 8, 2017 2:30:40 AM		asus-t100
Benchmark_Interbench	0_E1	Feb 8, 2017 2:14:39 AM		błeszak
Benchmark_IOZone	0_E1	Feb 8, 2017 2:13:25 AM		błeszak
Benchmark_Chrystone	0_E1	Feb 8, 2017 2:11:58 AM		błeszak

Test Run statistics

Status of the test run	Description	Number of test runs
!	Failed	24
!	Uncertain	0

Fuego - wszystkie testy

[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.linux_stress	Functional.LTP.Devices				
Functional.LTP.Filesystem	Functional.LTP.Open_Posix	Functional.netperf				
Functional.OpenSSL	Functional.pi_tests	Functional.posixtestsuite				
Functional.rmaptest	Functional.scrifab	Functional.scrashme				
Functional.sdhi_0	Functional.stress	Functional.synctest				
Functional.zlib						

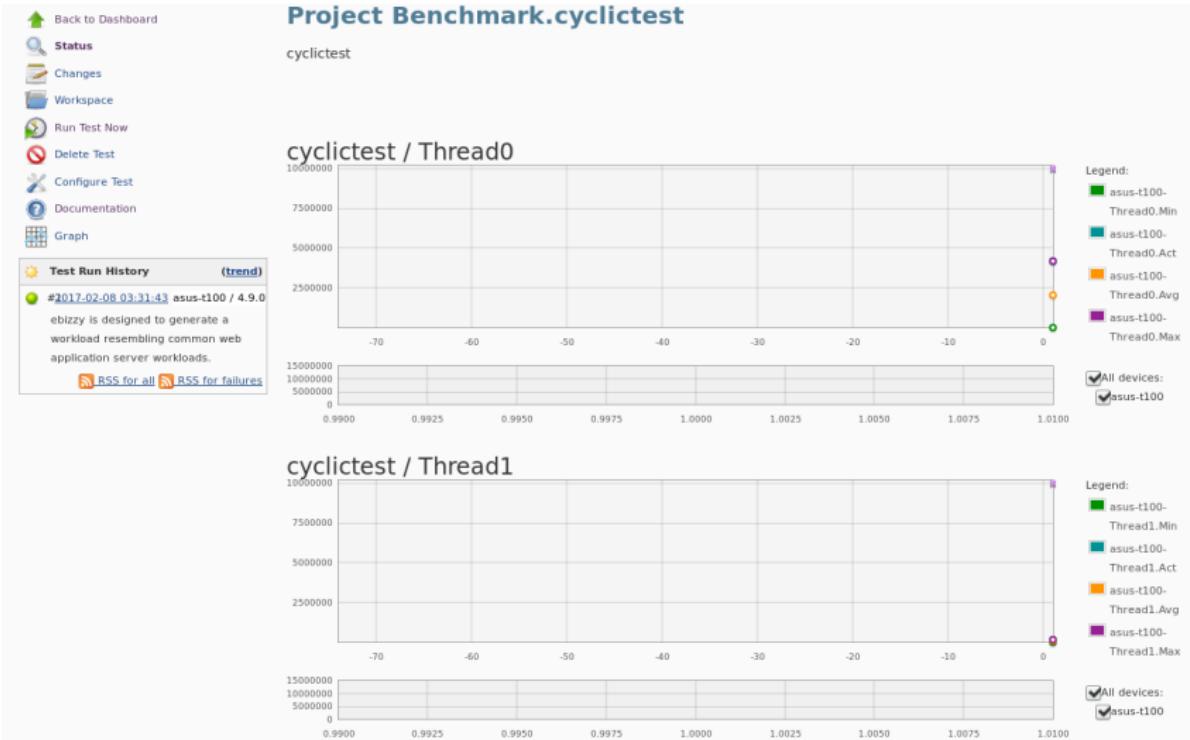
Fuego - functional tests

S	W	Test Name w/ Status Color ↓	Test Priority	Last Duration	Device
		FunctionalLatstress	360	N/A	asus-t100
		FunctionalLaunch_timer	360	13 sec	asus-t100
		FunctionalLbc	150	9.8 sec	asus-t100
		FunctionalLisp2	360	10 sec	biaszak
		FunctionalLmt	360	N/A	N/A
		FunctionalCrashme	360	14 sec	asus-t100
		FunctionalLexpat	230	49 sec	asus-t100
		FunctionalFontconfig	300	11 sec	asus-t100
		FunctionalI2tDemos	360	44 sec	asus-t100
		FunctionalLgitb	160	2 min 10 sec	asus-t100
		FunctionalHello_world	150	17 sec	asus-t100
		FunctionalIpconnect	360	N/A	N/A
		FunctionalJpeg	360	15 sec	asus-t100
		FunctionalLthpmp	360	92 ms	asus-t100
		FunctionalLinus_stress	360	31 sec	asus-t100
		FunctionalLTP.Devices	90	N/A	N/A
		FunctionalLTP.Riesystem	70	N/A	N/A
		FunctionalLTP_Open_Posix	70	11 min	asus-t100
		FunctionalNetperf	230	11 min	asus-t100
		FunctionalOpenSSL	200	29 sec	asus-t100
		FunctionalPci_tests	360	19 sec	asus-t100
		FunctionalPosixtestsuite	360	14 min	biaszak
		FunctionalRmaptest	360	11 sec	biaszak

Fuego - benchmarks

S	W	Test Name w/ Status Color	Test Priority	Last Duration	Device
		Benchmark.am7	230	N/A	asus-t100
		Benchmark.blasblast	230	N/A	blaszak
		Benchmark.bonnie	150	N/A	N/A
		Benchmark.cyclone	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.flot	140	N/A	N/A
		Benchmark.GLMark	160	N/A	N/A
		Benchmark.iperf	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.lnpack	240	43 sec	asus-t100
		Benchmark.imbench2	10	N/A	N/A
		Benchmark.ubench-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

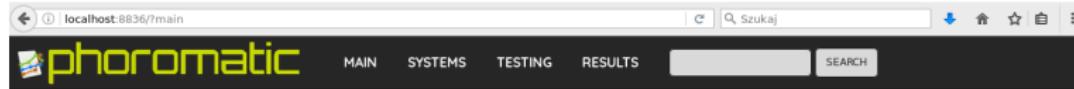
Fuego - benchmarks - wyniki



Phoronix test suite

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

Phoromatic



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/NLKWGg`. 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

Systems Running Tests

g510

Unknown

blaszak

Unknown

0 Schedules Active Today

0 Schedules In Total

2 Active Benchmark Tickets

0 Test Results Today / 2 Benchmark Results Total

Today's Scheduled Tests

Phoromatic - maszyna testowa

The screenshot shows the Phoromatic web interface at localhost:8836/systems/VWXBD. The top navigation bar includes links for MAIN, SYSTEMS, TESTING, and RESULTS, along with a search bar and a 'SEARCH' button. The main content area displays system details for a user named 'blaszak'. The system is identified as an 'asus'. Below this, there's a link to 'Edit Task & Enable/Disable System'. A section titled 'System State' provides detailed information about the system's status:

Status:	Awaiting Task
Last Communication:	26 February 01:51
Estimated Time Left For Task	
State:	Active
Phoromatic Test Suite Client:	6.8.0
Initial Creation:	26 February 00:17
System ID:	VWXBD
Last IP:	192.168.0.200
MAC Address:	00:23:54:9A:BB:ff
Wake-On-LAN Information:	N/A
Power-Off Sequence Permitted:	Permitted

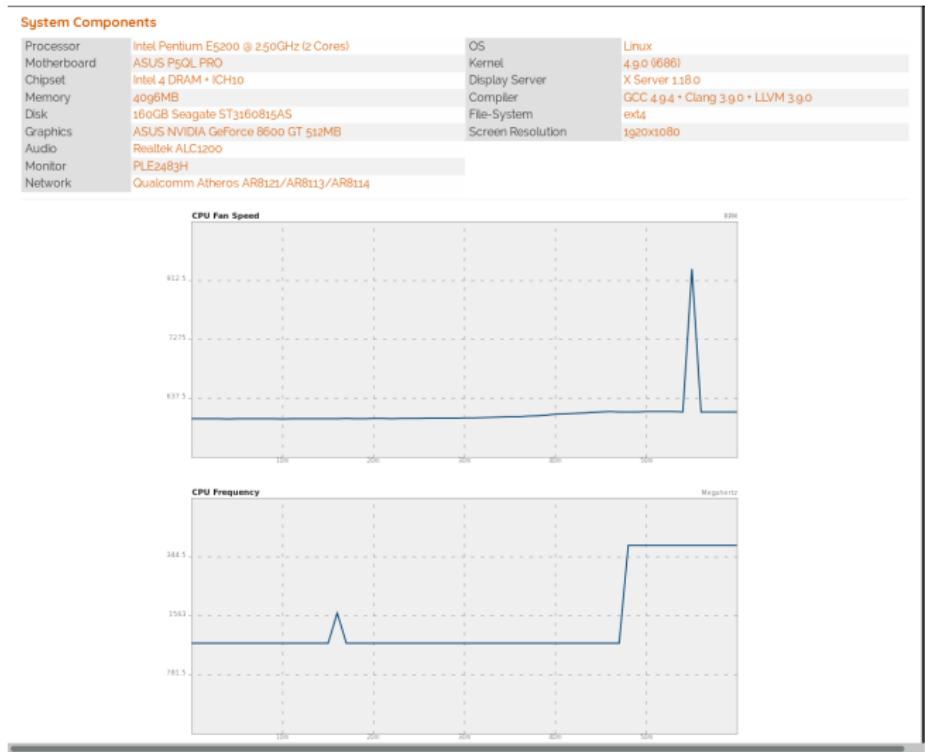
Below the system state, there are three buttons with associated descriptions:

- Enter Maintenance Mode**: Putting the system into maintenance mode will power up the system (if supported and applicable) and cause the Phoromatic Test Suite Phoromatic client to idle and block all testing until the mode has been disabled. If a test is already running on the system, the maintenance mode will not be entered until after the testing has completed. The maintenance mode can be used if wishing to update the system software or carry out other tasks without interfering with the Phoromatic client process. Once disabled, the Phoromatic Test Suite will continue to function as normal.
- Reboot System**: If the system is currently powered up and connected to the Phoromatic Server, this will send a message to the system to issue a reboot -- in case the system is hung on a test or you wish to otherwise manually reboot the server. This feature was added with Phoromatic Test Suite 5.8.
- Halt Testing**: If the system is currently powered up and running a test/benchmark via the Phoromatic Server, this will tell the system to halt the testing prematurely as soon as the currently-active test has finished. The results successfully ran will then be uploaded to the Phoromatic Server. This feature was added with Phoromatic Test Suite 5.8.

System Variables

System variables are a new feature of Phoromatic Test Suite 5.6 to allow for providing per-system information in an easy-to-use manner for other parts of the Phoromatic system. Initially these named variables can be used for the results identifier when [creating a benchmark ticket](#) and in the future the system variables may be used elsewhere. Examples of system variables could include providing a .SERIAL variable to acknowledge the system's serial number that may not be presented elsewhere by the Phoromatic Test Suite. ADM/N for the system's local administrator, etc. Variable names can only be alpha-numeric strings while their values are also

Phoromatic - maszyna testowa - szczegóły



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:

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

Add Another Test

[Create Suite](#)



Phoromatic - wyniki

phoromatic

MAIN SYSTEMS TESTING RESULTS SEARCH

test1 on blaszak

Intel Pentium E5200 testing with a ASUS P5QL PRO and ASUS NVIDIA GeForce 8600 GT 512MB on Linux via the Phoronix Test Suite.

Add Annotation

test1 on blaszak

Intel Pentium E5200 (2.94GHz) (2 Cores)

ASUS P5QL PRO

Intel 4 DRAM + K110

16GB Seagate ST1600115AS

ASUS NVIDIA GeForce 8600 GT 512MB

Realtek ALC1200

Qnivision Athene AR1211AR#8113AR#8134

Linux 4.9.0 (64bit)

4 Cores / 8 Threads

GCC 4.8.4 + Clang 3.9.0 + LLVM 3.9.0

nvTSL

1920x1080

Scaling Governor: acpi-cpufreq:ondemand

test1 on blaszak

ptsli

mean: Global Illumination Renderer: 0.8 Standard Deviation: 0.01

Standard Error: 0.01

MeanDeviation: 0.01

PHORONIX-TEST-SUITE.COM

Smallpt

Add Annotation

Smallpt v1.0

Global Illumination Renderer, 100 Samples

ptsli

mean: Global Illumination Renderer: 0.8 Standard Deviation: 0.01

Standard Error: 0.01

MeanDeviation: 0.01

SE +/- T.S.E

140 280 420 560 700

Systems Needing Attention
g510

Compare Results TESTS CSV Compare Results

Result Export DOWNLOAD AS PDF DOWNLOAD AS CSV DOWNLOAD AS XML DOWNLOAD AS TEXT OPENBENCHMARKING.GRD

VIEW SYSTEM LOGS

12:21 CET - 26 FEBRUARY 2017 2 TESTS 0 SCHEDULES 2 RESULTS 0 ACTIVITY EVENTS TODAY

Dziękuję

KaNaPi - What do you want to build today?

