

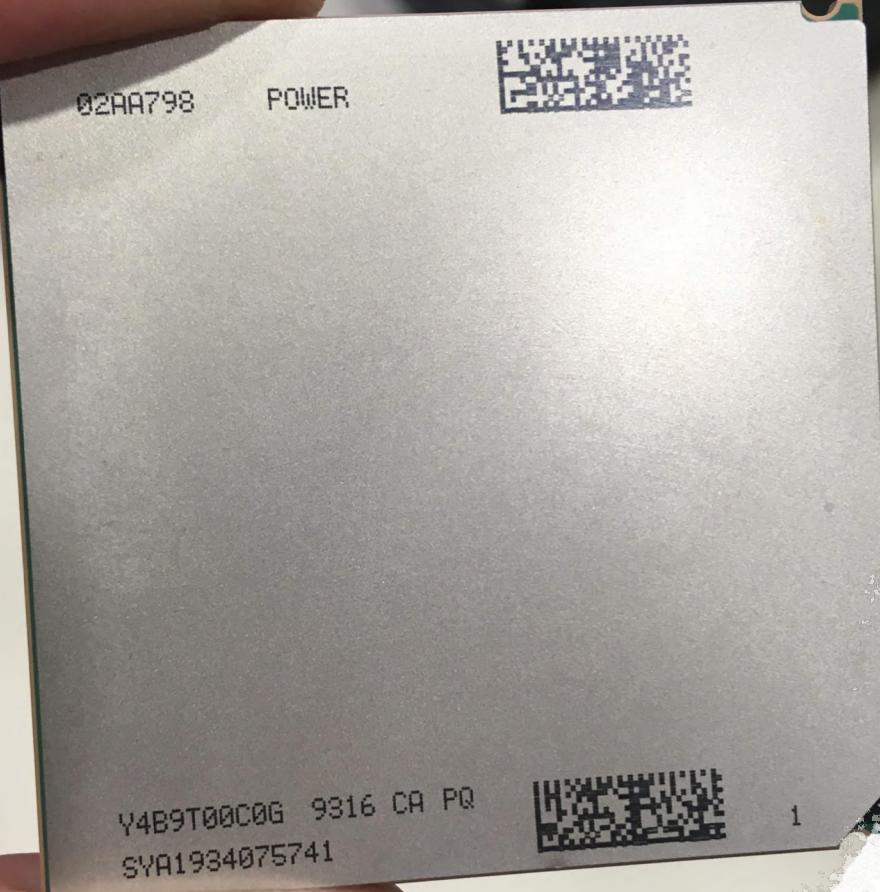
02AA798

POWER



The POWER of supercomputers at your fingertips

Rafael Sene | August 2019



About

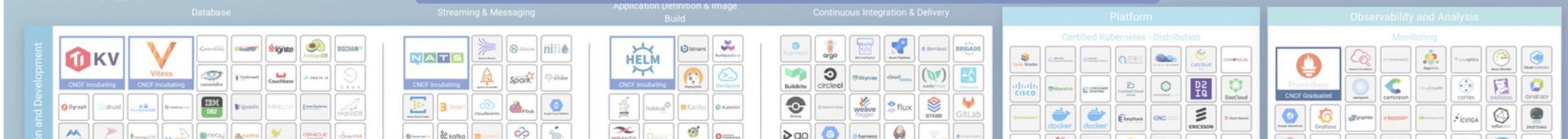
rpsene.com
rpsene@br.ibm.com

Today

Making the
journey to
POWER
easy.

The fast pace of new open-source projects





Remove extraneous backtick ✓

#2370 opened 7 days ago by thomwiggers • Review required

1 of 1

2

Clarify c

#2368 open

3

Tip to co

#2358 open

3

Doc Add

#2354 open

1

Add AW

#2350 open

2

restic/restic on Jul 16

Add support for ppc64le #2342

This commit adds support for cross-compiling Restic for ppc64le as part of the releas...

restic:master ← rpsene:master

You commented and opened

Review required

Add support for ppc64le ✓

#2342 opened on Jul 16 by rpsene • Review required

6 of 6

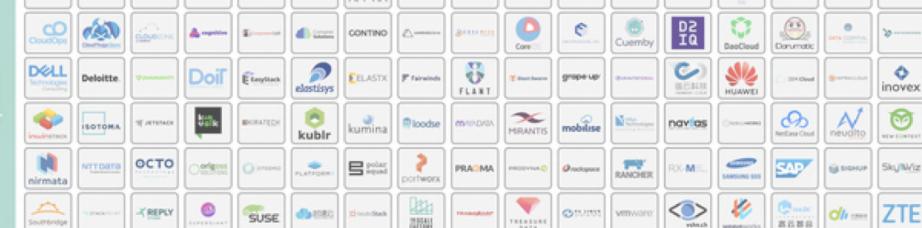
2

Prune speedup ✓

This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path

l.cncf.io

Special



The adoption of open-source
software comes from
developers organically
downloading/cloning
and using it.

A close-up photograph of a row of colorful pencils, arranged diagonally from top right to bottom left. The pencils are in various colors including blue, green, yellow, orange, red, pink, purple, and black. They are resting on a white surface.

The World
is multi-arch.

**So should be
the development!**



Chapter I

The POWER SDK

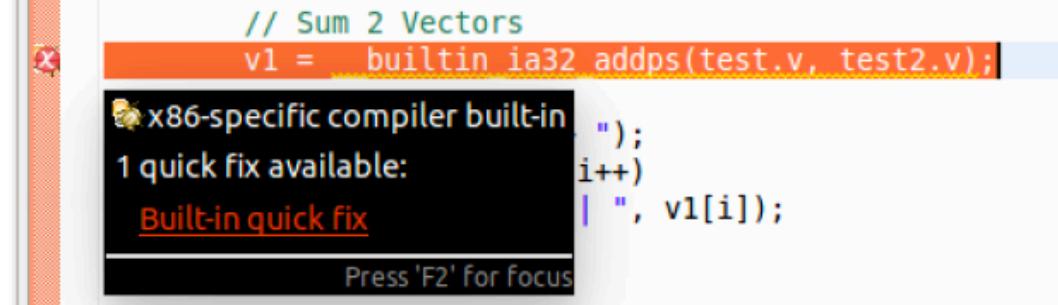
Migration Advisor

- 1 Linux/Power 32 bits to Linux/Power 64 bits application migration
 - Cast to pointers with different size
 - Implicit cast to variable with different size
 - Long usage
 - Union, structs and classes with incompatible type declarations
- 2 Linux/Power application optimization
 - Sync built-in to C11 standard atomic built-in
- 3 Linux/x86 to Linux/Power application migration
 - Cast with endianness issues
 - Char usage
 - Float128 usage
 - Hardware Transactional Memory (HTM)
 - Linux/x86-specific API
 - Long double usage
 - Non-portable Pthreads implementation
 - Performance Degradation
 - Struct with BitFields
 - Syscall not available for Linux on Power
 - Union with endianness issues
 - x86-specific assembly
 - x86-specific compiler built-in

4

```
// Sum 2 Vectors
#ifndef __PPC__
    v1 = vec_add(test.v, test2.v);
#else
    v1 = __builtin_ia32_addps(test.v, test2.v);
#endif
```

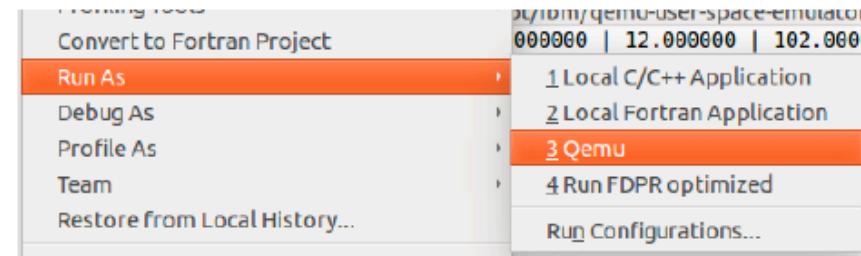
3



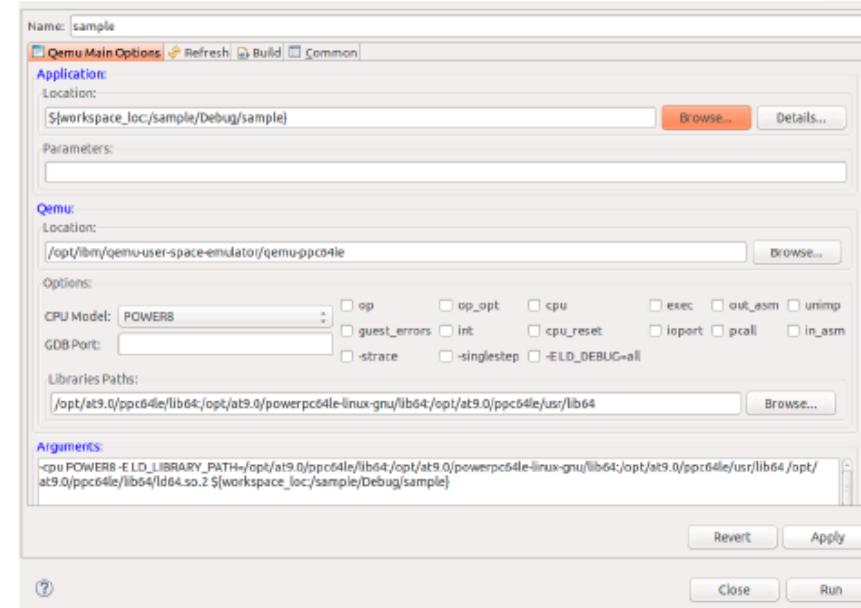
Migration Advisor				
0 errors, 8 warnings, 0 others				
Description	Resource	Path	Location	Migration Advisor Type
⚠ Union with endianness issues (1 item)				Union with endianness issues
⚠ Potential endianness issue when creating a Union	sample.c	/sample/src	line 22	
⚠ Cast with endianness issues (1 item)				Cast with endianness issues
⚠ Potential endianness issues when casting from	sample.c	/sample/src	line 37	
⚠ Long double usage (1 item)				Long double usage
⚠ Potential migration issue due size of long double	sample.c	/sample/src	line 38	
⚠ x86-specific compiler built-in (4 items)				x86-specific compiler built-in
⚠ x86-specific compiler built-in	sample.c	/sample/src	line 28	
⚠ x86-specific compiler built-in	sample.c	/sample/src	line 49	
⚠ x86-specific compiler built-in	sample.c	/sample/src	line 66	
⚠ x86-specific compiler built-in	sample.c	/sample/src	line 77	
⚠ x86-specific assembly (1 item)				x86-specific assembly
⚠ Possible arch specific assembly	sample.c	/sample/src	line 74	

QEMU user-mode integration and IBM POWER8 Functional Simulator

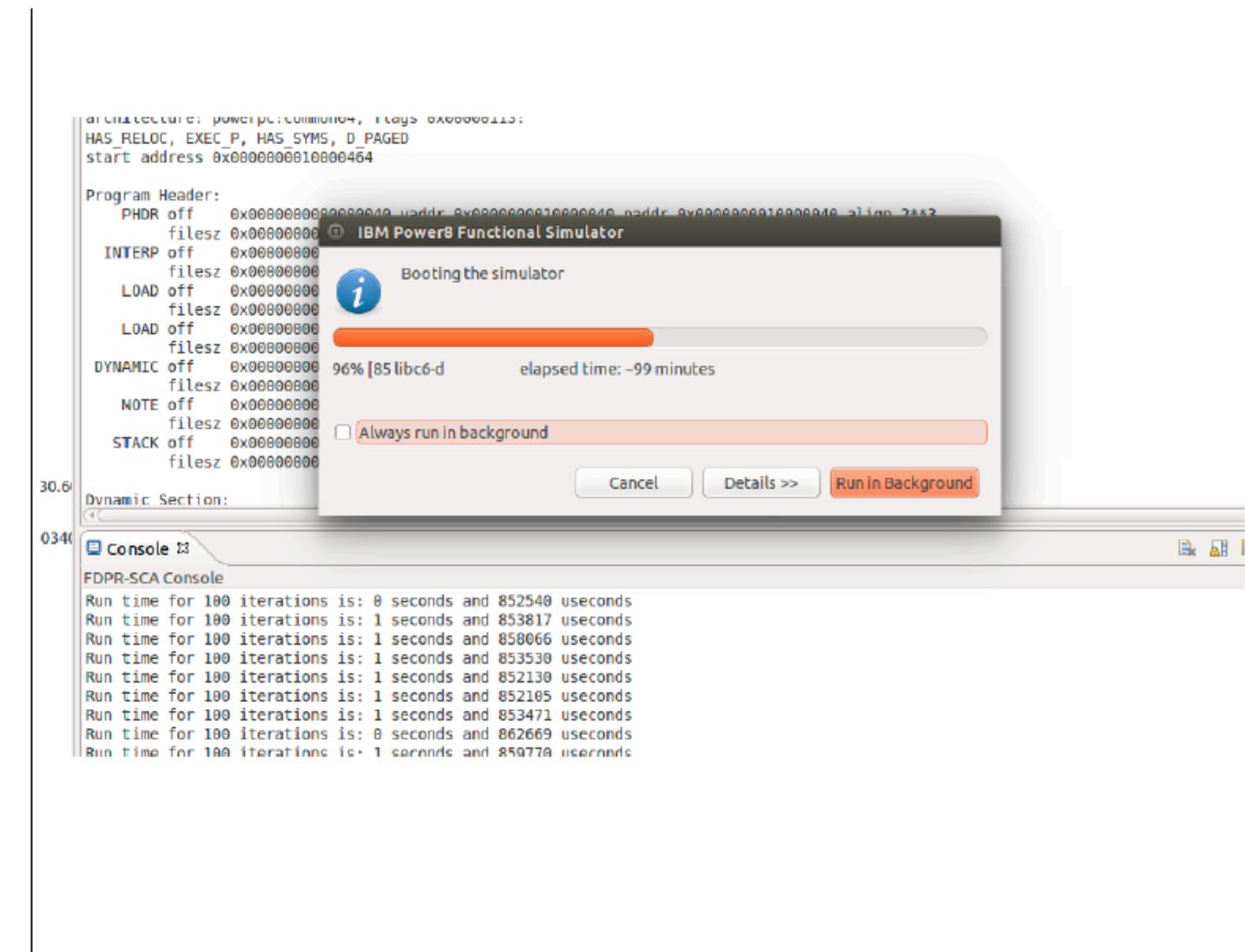
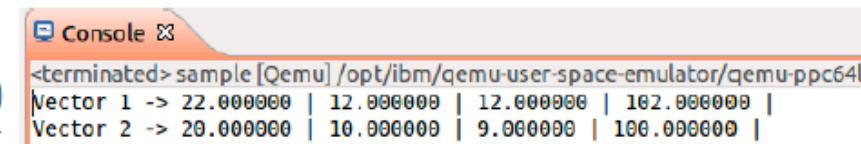
1



2



3



The screenshot shows a web interface for managing software repositories. At the top, there's a navigation bar with tabs for 'Repositories 11', 'Packages', 'People 7', 'Teams', 'Projects 2', and 'Settings'. Below the navigation is a search bar with placeholder text 'Find a repository...', dropdown menus for 'Type: All' and 'Language: All', and a green 'New' button. The main content area displays five project cards:

- fedora**: collect resources associated with fedora builds of open-power-sdk projects. Status: Apache-2.0, 0 forks, 0 stars, 0 issues, 0 pull requests. Updated 13 days ago.
- pveclib**: Power Vector Library. Status: C, Apache-2.0, 4 forks, 9 stars, 1 issue, 0 pull requests. Updated 13 days ago.
- curt**: Compute processor utilization and system call processing metrics based on "perf" trace data. Status: Python, GPL-2.0, 4 forks, 11 stars, 12 issues, 1 pull request. Updated on Jun 13.
- splat**: System Performance Lock Analysis Tool. Status: Python, GPL-2.0, 0 forks, 3 stars, 14 issues, 0 pull requests. Updated on May 14.
- automated-install**: Automates the installation of the IBM SDK for Linux on Power, including all its dependencies. Status: (partially visible)

To the right of the project cards is a sidebar with sections for 'Top languages' (Python, Shell, C), 'People' (7 users shown), and a 'Invite someone' button.

CLI tools are opensource

Not enough.

Chapter II

**FREE
Access
to POWER**



Flowery
field where
developers
can get the
resources
they need.

A close-up photograph of a bee pollinating a pink flower. The bee is positioned above the flower, and two blue arrows point from the word "Developers" to the bee and the flower respectively.

Developers

Resources

Minicloud

The FREE OpenPOWER Cloud by Unicamp
openpower.ic.unicamp.br/minicloud



And
they
came!



FreeBSD



debian



web▶m

julia



1000+ Requests



“...I developed a rendering software tool that I'd like to optimise and test on the POWER platform. It's still being developed, and I'd like to **make it multi platform** Intel, ARM and **POWER**)...”

“...**Test** software **on ppc64le**, troubleshoot compile errors and build packages...”

“...I require access to **study Linux** software development on the POWER architecture. This program is the best free option...”

“... I am trying to **enable** LuaJIT **for PPC64LE** and would like to test it on actual hardware...”

“...**Development** of the OpenSource RocksDB **for ppc64le** architecture. IBM have started a port to PPC64le, and we would like to ensure its continued functionality...”



Eventually, free
access is no longer
an option and it
creates sales
opportunities.



Jo Shields @directhex · 10 de jan de 2018
1T SSD, 64GiB RAM, Dual 8 core 2.32GHz POWER8



3



1



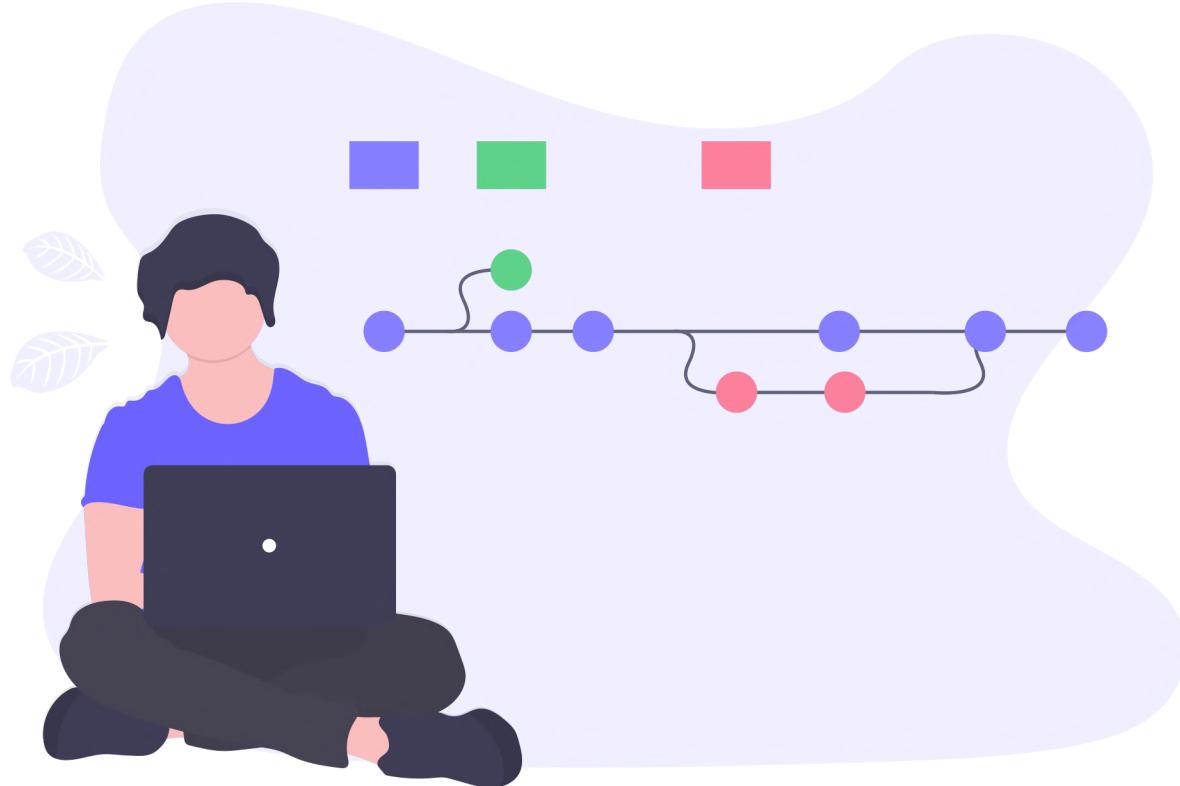
Jo Shields
@directhex

Am eternally grateful to Minicloud, from University of Campinas & @OpenPOWERorg, for providing us with PowerPC VMs for years. But our needs have vastly outstripped what we could expect for free, hence new hardware

Cool, is this enough?

NO

Chapter III



Be where
developers
are!

GitHub



GitLab



Travis CI

The home of open source testing

Over 900k open source projects and 600k users are testing on Travis CI.



Always **free** for open
source projects

os: linux-ppc64le

Is all you need!

alpha version

step 1: sign in

Travis CI

About Us

Blog

Status

Documentation

Help

Sign in with GitHub

Test and Deploy with Confidence

Easily sync your GitHub projects with Travis CI and you'll be testing your code in minutes!



Sign Up

travis-ci.org

step 2: enable your project

Travis CI



Dashboard

Changelog

Documentation

Help



MY ACCOUNT



Rafael Peria de Sene

Sync account

A SINGLE PLACE FOR ALL YOUR BUILDS

You can now have all your public and private repositories together at travis-ci.com

[Sign up for the beta](#)

ORGANIZATIONS

International Business Machines

Software Development Toolkit and Li...

OpenPower | Unicamp

MISSING AN ORGANIZATION?

[Review and add your authorized organizations.](#)



Rafael Peria de Sene

@rpsene

[Repositories](#)

[Settings](#)

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

Legacy Services Integration

travis	
hello-travis	
travis-build	
travis-cookbooks	
travis-power-recipes	

step 3: create a travis.yml file

Pull requests Issues Marketplace Explore

 rpsene / hello-travis

Unwatch 1 Star 0 Fork 0

[Code](#) Issues 0 Pull requests 0 Actions Projects 0 Wiki Security Insights Settings

Branch: master [hello-travis / .travis.yml](#) Find file Copy path

 rpsene Create .travis.yml 1152b18 12 minutes ago

1 contributor

4 lines (3 sloc) | 50 Bytes Raw Blame History

```
1 language: bash
2 os: linux-ppc64le
3 script: uname -a
```

© 2019 GitHub, Inc.

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[Privacy](#)

[Security](#)

[Status](#)

[Help](#)



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[API](#)

[Training](#)

[Blog](#)

[About](#)



Describe your build according your needs.

open-power / skiboot

Code Issues 62 Pull requests 3 Projects 1 Wiki Security Insights

Branch: master skiboot / .travis.yml

stewartsmith travis: remove fedora29 468a2dc 17 days ago

3 contributors

61 lines (50 sloc) | 1.69 KB

Raw Blame History

```
language: c
os:
- linux
- linux-ppc64le
cache: ccache
env:
matrix:
- RUN_ON_CONTAINER=ubuntu-16.04
- RUN_ON_CONTAINER=ubuntu-18.04
- RUN_ON_CONTAINER=ubuntu-latest
- RUN_ON_CONTAINER=centos7
- RUN_ON_CONTAINER=fedora30
- RUN_ON_CONTAINER=fedora-rawhide
- RUN_ON_CONTAINER=debian-stretch
- RUN_ON_CONTAINER=debian-unstable
- RUN_ON_CONTAINER=docs
global:
# The next declaration is the encrypted COVERITY_SCAN_TOKEN, created
# via the "travis encrypt" command using the project repo's public key
secure: "MpNEGFa1VrF/vsQq24n5UgfRbz1wVC6B8mubFnyK4gX0IuQ9xhWuTzMLUQF9UJxe5jnC2DTmVuVTYN/hggw+PpYwb00AE0QGR5pmPH4PSRmc!
matrix:
allow_failures:
- env: RUN_ON_CONTAINER=fedora-rawhide
- env: RUN_ON_CONTAINER=debian-unstable
exclude:
- os: linux-ppc64le
  env: RUN_ON_CONTAINER=centos7
- os: linux-ppc64le
  env: RUN_ON_CONTAINER=docs
```

step 4: start building

A screenshot of a GitHub repository page for `rpsene/hello-travis`. The repository has 1 unwatched star and 0 forks. The navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. The main content shows a commit from `rpsene` on Aug 11, 2019, with three commits listed: "Update README.md", "Create .travis.yml", and "Initial commit". A blue arrow points to the "Create .travis.yml" commit. A tooltip appears over this commit, stating "Some checks haven't completed yet" and "1 pending check", with a "continuous-integration/travis-ci/push" status shown as "Pending ...". Below the commits are "Newer" and "Older" buttons.

Search all repositories

rpsene / hello-travis

My Repositories +

rpsene/hello-travis # 1

 Duration: 32 sec
 Finished: less than a minute ago

Unicamp-OpenPower/docker-cr # 70

 Duration: 1 min 23 sec
 Finished: about an hour ago

Unicamp-OpenPower/terraform # 166

 Duration: 5 min 39 sec
 Finished: about an hour ago

Unicamp-OpenPower/bazel-rele # 192

 Duration: 1 min 56 sec
 Finished: about an hour ago

Unicamp-OpenPower/glide-build # 139

 Duration: 48 sec
 Finished: about 3 hours ago

Unicamp-OpenPower/glide-rele # 150

 Duration: 57 sec
 Finished: about 3 hours ago

Unicamp-OpenPower/minikube # 171

Duration: 4 min 54 sec

Current Branches Build History Pull Requests > Build #1

More options

master Update README.md

#1 passed

Restart build

 Commit 8a70ad9
 Compare 1152b18..8a70ad9
 Branch master Ran for 32 sec
 less than a minute ago

Rafael Peria de Sene

</> Shell

Job log

View config

Remove log Raw log

```
▶ 1 Worker information
▶ 6 Build system information
142
143
▶ 144 $ git clone --depth=50 --branch=master https://github.com/rpsene/hello-travis.git rpsene/hello-travis
153
154 $ bash -c 'echo $BASH_VERSION'
155 4.3.48(1)-release
156
157 $ uname -a
158 Linux travis-20190703065617 4.4.0-143-generic #169-Ubuntu SMP Thu Feb 7 07:56:40 UTC 2019 ppc64le ppc64le ppc64le GNU/Linux
159 The command "uname -a" exited with 0.
160
161
162
163 Done. Your build exited with 0.
```

 worker_info
 system_info

git.checkout 0.43s

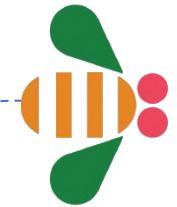
0.01s

Top ▲

docs.travis-ci.com

Travis@IBM

POWER support started in 2017.



**POWER support
started in 2017.**



**Required for ICP
development parity
between X and P.**

**POWER support
started in 2017.**

**Required for ICP
development parity
between X and P.**



**Everyone can build on
POWER today at IBM
using Travis.**



Search all repositories

My Repositories Running (56/128) +

IBMPublicCloud/icp-sert-bats # 1938

Duration: 52 min 57 sec

kernelbackports/ikOTD # 361

Duration: 1 hr 20 min 48 sec

IBMPublicCloud/mcm-kui # 191

Duration: 7 min 57 sec

Finished: 13 minutes ago

IBMPublicCloud/mcm-applicati # 334

Duration: 36 min 46 sec

Finished: 14 minutes ago

IBMPublicCloud/icp-mgmt-repo # 101

Duration: 1 min 10 sec

Finished: 15 minutes ago

IBMPublicCloud/icp-helm-repo # 172

Duration: 1 min 2 sec

Finished: 16 minutes ago

IBMPublicCloud/findings-adapt # 34

Duration: 18 min 28 sec

Finished: 19 minutes ago

IBMPublicCloud / mcm-ui build passing

Current Branches Build History Pull Requests More options

✓ Pull Request #667 Import cluster

-o Commit 3990a2f

#667: Import cluster

Branch master

Alec Hsu authored and committed

#3283 passed

Ran for 19 min 11 sec

Total time 46 min 11 sec

19 minutes ago

Build Jobs

✓ # 3283.1 Node.js

OSARCH=rhel7 TARGET=\${TARGET_IP}

7 min 35 sec

✓ # 3283.2 Node.js

OSARCH=linux-ppc64le

18 min 2 sec

✓ # 3283.3 Node.js

OSARCH=linux-amd64

9 min 33 sec

✓ # 3283.4 Node.js

OSARCH=linux-s390

11 min 1 sec



200K+ builds
and counting.





GitLab CI/CD

GitLab Runner

step 1: sign in

The screenshot shows a GitLab repository interface. The sidebar on the left lists project management sections like Project, Repository, Files, Commits, Branches, Tags, Contributors, Graph, Compare, Charts, Locked Files, Issues (0), Merge Requests (0), CI / CD, Security & Compliance, Operations, Packages, Wiki, Snippets, and Settings. The main content area displays a repository named "hello-gitlab-on-power" under "Rafael Peria de Sene". A single commit is shown, adding a README.md file. The commit details are: "Add README.md" by Rafael Peria de Sene authored just now, with a commit hash f40406bf. Below the commit, the README.md content is displayed: "This is a hello-world on Power".

Rafael Peria de Sene > hello-gitlab-on-power > Repository

master hello-gitlab-on-power / +

Add README.md
Rafael Peria de Sene authored just now
f40406bf

Name	Last commit	Last update
README.md	Add README.md	just now

README.md

This is a hello-world on Power

step 2: get a POWER VM

Minicloud rafael.sene ▾ rafael.sene ▾

Project API Access Compute Overview Instances

Images Key Pairs Server Groups Network Identity

Instances

Project / Compute / Instances

Displaying 1 item

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Time since created	Actions
gitlab-runner-ubuntu	Ubuntu 18.04 ppc64le - Power8 Power9	10.8.40.190	minicloud.medium	rpsene	Active	Power8	None	Running	0 minutes	Create Snapshot ▾

Displaying 1 item

Displaying 1 item

openpower.ic.unicamp.br/minicloud

step 3: install GitLab Runner

```
root@gitlab-runner-ubuntu:~# apt-get install gitlab-runner
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  cdebootstrap debian-archive-keyring libdebian-installer-extra4 libdebian-installer4
Suggested packages:
  qemu-user-static docker.io
The following NEW packages will be installed:
  cdebootstrap debian-archive-keyring gitlab-runner libdebian-installer-extra4 libdebian-installer4
0 upgraded, 5 newly installed, 0 to remove and 4 not upgraded.
Need to get 6682 kB of archives.
After this operation, 32.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

Official POWER support: <https://gitlab.com/gitlab-org/gitlab-runner/issues/2941>

step 4: configure GitLab Runner

GitLab Projects Groups Activity Milestones Snippets

New runners registration token has been generated!

General pipelines
Customize your pipeline configuration, view your pipeline status and coverage report.

Auto DevOps
Auto DevOps will automatically build, test, and deploy your application based on a predefined Continuous Integration and Delivery configuration. [Learn more about Auto DevOps](#)

Protected Environments
Protecting an environment restricts the users who can execute deployments.

Runners
Register and see your runners for this project.

Variables
Environment variables are applied to environments via the runner. They can be protected by only exposing them to protected branches or tags. Additionally, they can be masked so they are hidden in job logs, though they must match certain regexp requirements to do so. You can use environment variables for passwords, secret keys, or whatever you want. You may also add variables that are made available to the running application by prepending the variable key with `K8S_SECRET_`. [More information](#)

Pipeline triggers
Triggers can force a specific branch or tag to get rebuilt with an API call. These tokens will impersonate their associated user including their access to projects and their project permissions.

License Management
Here you can approve or blacklist licenses for this project. Using [Gitlab CI/CD](#) or [Auto License Compliance](#) will allow you to see if there are any unmanaged licenses and approve or blacklist them in merge request.

CI / CD

Operations

Pages

Audit Events

rpsene.com | rpsene@br.ibm.com | OpenPower Summit 2019

OpenPOWER™

H hello-gitlab-on-power

Project

Repository

Issues 0

Merge Requests 0

CI / CD

Security & Compliance

Operations

Packages

Wiki

Snippets

Settings

General

Members

Integrations

Repository

CI / CD

Operations

Pages

Audit Events

- **active** - Runner is active and can process any new jobs
- **paused** - Runner is paused and will not receive any new jobs

To start serving your jobs you can either add specific Runners to your project or use shared Runners

Specific Runners

Set up a specific Runner automatically

You can easily install a Runner on a Kubernetes cluster.

[Learn more about Kubernetes](#)

1. Click the button below to begin the install process by navigating to the Kubernetes page
2. Select an existing Kubernetes cluster or create a new one
3. From the Kubernetes cluster details view, install Runner from the applications list

[Install Runner on Kubernetes](#)

Set up a specific Runner manually

1. [Install GitLab Runner](#)
2. Specify the following URL during the Runner setup:
<https://gitlab.com/>
3. Use the following registration token during setup:
`mskthPknrl4CK1pKZm5e`

[Reset runners registration token](#)

4. Start the Runner!

Shared Runners

Shared Runners on GitLab.com run in **autoscale mode** and are powered by Google Cloud Platform. Autoscaling means reduced wait times to spin up builds, and isolated VMs for each project, thus maximizing security.

They're free to use for public open source projects and limited to 2000 CI minutes per month per group for private projects. Read about all [GitLab.com plans](#).

[Disable shared Runners](#) for this project

Available shared Runners: 8

 fa6cab46

shared-runners-manager-3.gitlab.com #44028

`docker` `east-c` `gce` `git-annex` `linux` `mongo` `mysql` `postgres`
`ruby` `shared`

 d5ae8d25

gitlab-shared-runners-manager-5.gitlab.com #380989

`gitlab-org`

 ed2dce3a

step 5: register GitLab Runner

```
root@gitlab-runner-ubuntu:~# gitlab-runner register
Running in system-mode.

Please enter the gitlab-ci coordinator URL (e.g. https://gitlab.com/):
https://gitlab.com/
Please enter the gitlab-ci token for this runner:
mskthPknrL4CK1pKZm5e
Please enter the gitlab-ci description for this runner:
[gitlab-runner-ubuntu]:
Please enter the gitlab-ci tags for this runner (comma separated):
ubuntu-ppc64le ←
Whether to run untagged builds [true/false]:
[false]:
Whether to lock the Runner to current project [true/false]:
[true]:
Registering runner... succeeded           runner=mskthPkn
Please enter the executor: docker-ssh, shell, docker-ssh+machine, kubernetes, docker, parallels, ssh, virtualbox, docker+machine:
shell
Runner registered successfully. Feel free to start it, but if it's running already the config should be automatically reloaded!
```

Specific Runners

Set up a specific Runner automatically

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[Install Runner on Kubernetes](#)

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1. [Install GitLab Runner](#)
2. Specify the following URL during the Runner setup:
<https://gitlab.com/>
3. Use the following registration token during setup:
`mskthPknrL4CK1pKZm5e`

[Reset runners registration token](#)

4. Start the Runner!

Runners activated for this project



gitlab-runner-ubuntu

ubuntu-ppc64le

Pause

Remove Runner

#1053926

Shared Runners

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They're free to use for public open source projects and limited to 2000 CI minutes per month per group for private projects. Read about all [GitLab.com plans](#).

[Disable shared Runners](#) for this project

Available shared Runners: 8



gitlab-shared-runners-manager-4.gitlab.com

#157329

gitlab-org



gitlab-shared-runners-manager-6.gitlab.com

#380990

gitlab-org



shared-runners-manager-4.gitlab.com

#44949

docker east-c gce git-annex linux mongo mysql postgres
ruby shared

step 6: configure .gitlab-ci.yml

Rafael Peria de Sene > hello-gitlab-on-power > Repository

master hello-gitlab-on-power / .gitlab-ci.yml

Update .gitlab-ci.yml
Rafael Peria de Sene authored 2 minutes ago

✓ This GitLab CI configuration is valid. [Learn more](#)

.gitlab-ci.yml 55 Bytes

```
power:
  script: uname -a
  tags:
    - ubuntu-ppc64le
```

Issues 0

Merge Requests 0

CI / CD

Security & Compliance

Operations

Packages

Wiki

Snippets

Find file Blame History Permalink

58827305

Lock Edit Web IDE Replace Delete

Runners activated for this project

criBkYwD 🔒

gitlab-runner-ubuntu #1053926

ubuntu-ppc64le

GitLab Projects Groups Activity Milestones Snippets

Rafael Peria de Sene > hello-gitlab-on-power > Jobs > #270704461

H hello-gitlab-on-power

Project Repository Issues Merge Requests CI / CD Pipelines Jobs Schedules Charts Security & Compliance Operations Packages Wiki Snippets Settings

passed Job #270704461 triggered just now by Rafael Peria de Sene

```
Running with gitlab-runner 10.5.0 (10.5.0)
on gitlab-runner-ubuntu criBkYwD
Using Shell executor...
  ▾ Running on gitlab-runner-ubuntu...
  ▾ Cloning repository...
    Cloning into '/var/lib/gitlab-runner/builds/criBkYwD/0/rpsene/hello-gitlab-on-power'...
    Checking out 58827305 as master...
      Skipping Git submodules setup
      ▾
      ▾
      ▾ $ uname -a
        Linux gitlab-runner-ubuntu 4.15.0-45-generic #48-Ubuntu SMP Tue Jan 29 16:27:02 UTC 2019 ppc64le ppc64le ppc64le GNU/Linux
      ▾
      ▾
    Job succeeded
```

power

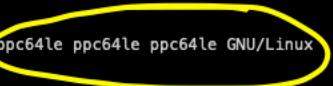
Duration: 3 seconds
Timeout: 1h (from project)
Runner: gitlab-runner-ubuntu (#1053926)
Tags: ubuntu-ppc64le

Commit 58827305
Update .gitlab-ci.yml

Pipeline #75963871 for master

test

power





Rafael Peria de Sene @rpsene · 1 month ago

I've been playing with Runner on Power for a while and just found out this discussion yesterday when I opened a ticket to the support asking about a person to talk about it.

My tests with Runner executing shell was executed using the free Power VMs at <https://minicloud.parqtec.unicamp.br/>.

It would be awesome to see something like a beta version of runner supported by the community running on Power. We did the same for Travis and GitHub :)

▼ Collapse replies

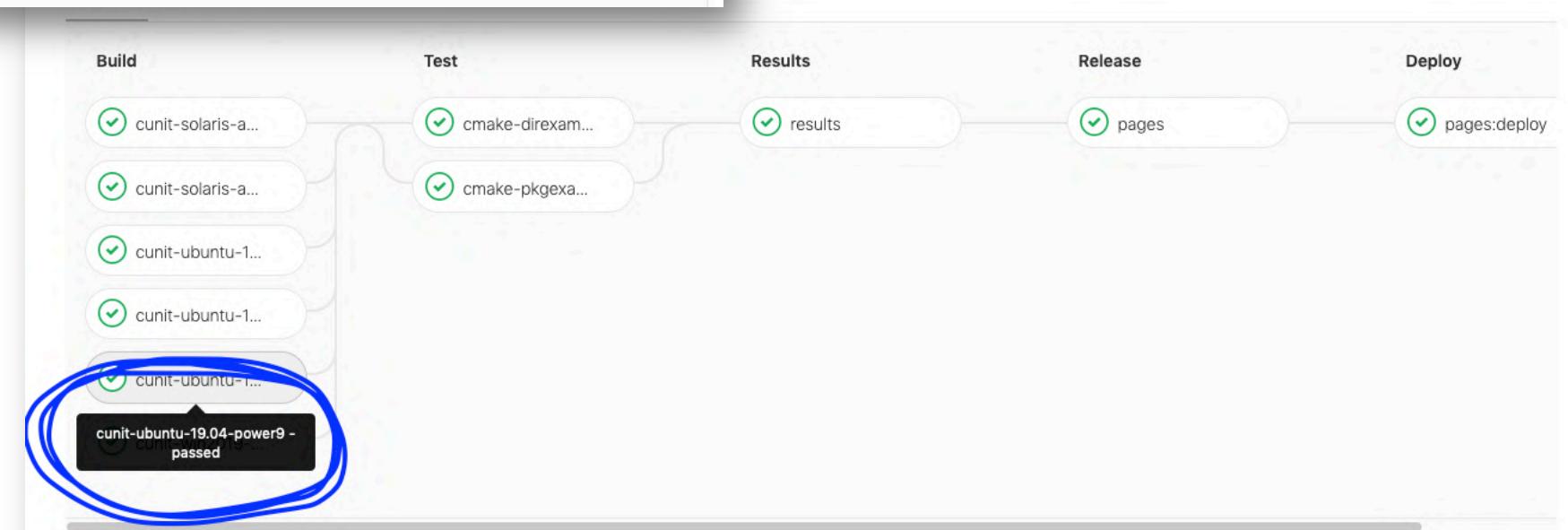


Ian Norton @inorton · 1 month ago

Hi Rafael, I was surprised and excited to read about those free Power VMs so I've set one up using your link and have it running gitlab builds for the CUnit project! I have it running using gitlab-python-runner - <https://gitlab.com/cunity/cunit/commits/master>

You should be able to get it installed and registered by following <https://gitlab.com/cunity/gitlab-python-runner/blob/master/README.md>

Edited by Ian Norton 1 month ago



docs.gitlab.com/ee/ci/

So, what next?

More POWER

Better Documentation

More Advocacy

Thank You !

Rafael Sene - rpsene@br.ibm.com | rpsene.com