

Providing Open Source Software for a New Architecture

Gustavo Salibi

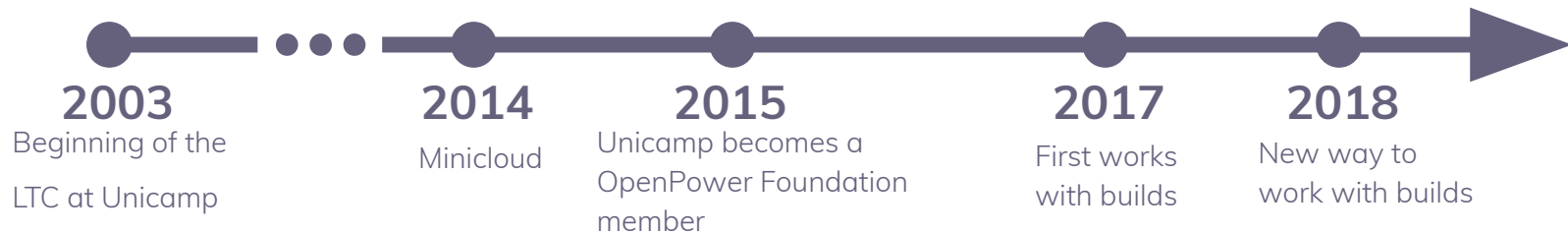


gsalibi



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OpenPower Lab



Communities

Often, users from other architectures are unable to use the software 😞



More Than x86

Smartphones: ARM

Cloud Computing: often use another arch

Supercomputers:

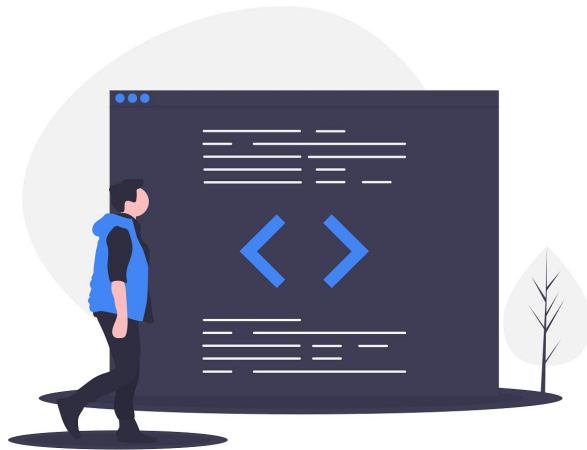
1. Power9
2. Power9
3. SW26010



Architectures Change

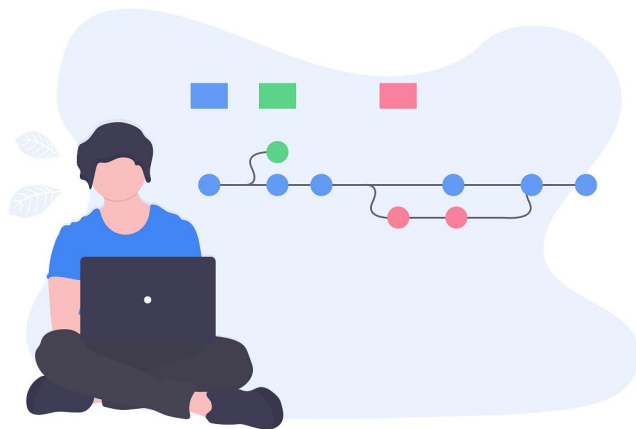
Multi Architecture

Fortunately, most of the time, working multi architecture is very straightforward 😊



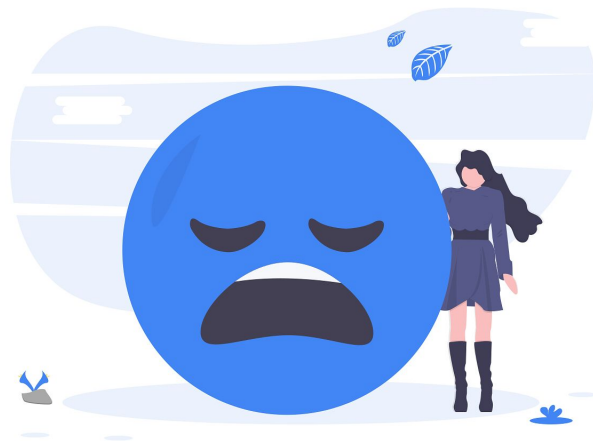
First Approach

Try to convince the
community to adopt
multi architecture



Failed approach

They feel insecure in
supporting an unfamiliar
architecture




New Approach



Build and maintain our
own releases on Power





Tooling

Unicamp-OpenPower / terraform-releases 

Current Branches Build History Pull Requests More options

✓ **master** CRON Update build.sh  #171 passed 

Commit aa7aa45 

Branch master  11 minutes ago

Gustavo Salibi authored GitHub committed

Go: 1.12.1
CONSUL_VERSION=0.7.5 GOMAXPROCS=4 GO111MODULE=on

Job log View config

```
1 Worker information
6 Build system information
142
143 $ sudo systemctl start docker
144 Updating gimme
145
146 $ git clone --depth=50 --branch=master https://github.com/Unicamp-OpenPower/terraform-releases.git Unicamp-
156
157 $ travis_export_go 1.12.1 github.com/Unicamp-OpenPower/terraform-releases
158
```

Jenkins

Jenkins » bazel-ubuntu-14-04 » #3

← Voltar ao projeto

Estado pessoal

Alterações

➤ Saída do console

Exibir como texto puro

View Build Information

Parâmetros

Environment Variables

Build anterior

Próximo build

Timestamps [View as plain text](#)

☒ System clock time
☒ Use browser timezone
☐ Elapsed time
☐ None

✓ Saída do console

Ignorando 1,457 KB.. [Ver log completo](#)

```
otstrap .../build/buildjar/libskylark-deps.jar [for host]; 8s local
23:02:46 Compiling src/main/tools/process-wrapper-legacy.cc; 0s local
23:02:46 Linking src/tools/singlejar/singlejar_local; 0s local
23:02:47
[1A[K
[1A[K
[1A[K
[1A[K[32m[1,125 / 1,193][0m 3 actions running
23:02:47 JavacBootstrap .../build/buildjar/libskylark-deps.jar [for h
23:02:47 Compiling src/main/protobuf/execution_statistics.pb.cc; 0s l
23:02:47 Compiling src/main/tools/process-wrapper-options.cc; 0s loca
23:02:47
[1A[K
[1A[K
[1A[K
[1A[K[32m[1,126 / 1,194][0m 3 actions running
23:02:47 JavacBootstrap .../build/buildjar/libskylark-deps.jar [for h
23:02:47 Compiling src/main/protobuf/execution_statistics.pb.cc; 0s l
23:02:47 Compiling src/main/tools/process-tools.cc; 0s local
23:02:47
[1A[K
[1A[K
[1A[K
[1A[K[32m[1,126 / 1,194][0m 3 actions running
```



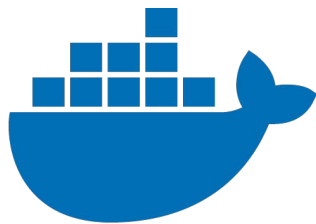
kiali



Terraform



container



docker

okd



kubernetes



Grafana

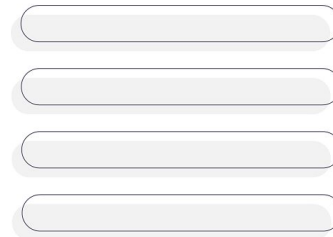
MINIO



Open For New Requests



openpower.ic.unicamp.br/talks





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Thank You