

FUTURE INTERNET TESTBEDS EXPERIMENTATION BETWEEN BRAZIL AND EUROPE







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Porting OFELIA CF to Multiple Linux Environments

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- 1. Contribute to the OFELIA Control Framework, by providing the necessary infrastructure to install and run it on different environments
- 2. Modify the installation scripts (ofver) for added modularity and portability
- **3. Enable** the implementation of the proposed architecture for NetFPGA servers in Brazilian islands, using **CentOS** as the base OS
- 4. Encourage **research** and **development** of different **tools** that currently run on non-supported environments





OXA & CentOS

Debian and **Redhat** based distributions differ in many aspects:

1. Similar, but conflicting configuration files and initialization hierarchy (under /etc)

Proposed architecture for NetFPGA servers in the Brazilian islands

CONTRIBUTIONS

- Analised the dependencies of each OFELIA component and correlated equivalent packages in different distributions
- 2. Added scripts to **ofver** for detection of distributions and selection of correct dependencies in OXA

- 2. Incompatible package managers and naming conventions
- The concept of "stability" may vary; as seen on package versions (e.g. Python, XEN, libvirt)

FUTURE WORK

- 1. Further **improvement** of the ofver added scripts
- 2. Proposal and development of a KVM compatible virtualization module to (im)prove OFELIA's portability and

 https://github.com/rdfg/ocf (will submit an upstream pull request once improved)

3. CentOS 5.x repository for use with OFELIA CF

http://www2.comp.ufscar.br/~ricardofg/centos5/



3. Provision of **more** repositories for unsupported distributions, and addition of support in ofver for the above mentioned distributions

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