

Integration of the BOINC system and additional software packages

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RAS

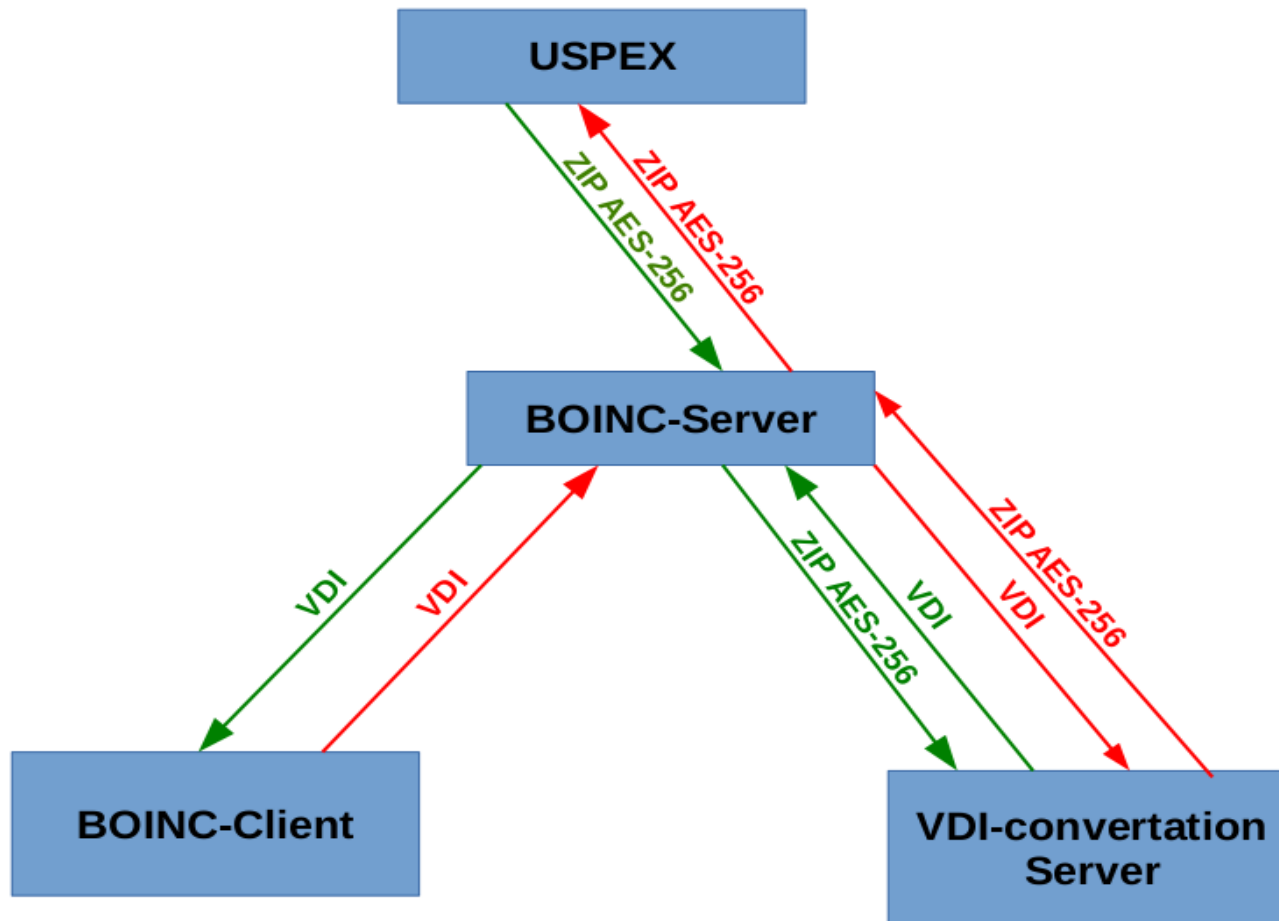
Computational node

- Wrapper (Berkeley);
- GenWrapper (MTA SZTAKI);
- VirtualBox wrapper (Berkeley);
- GBAC (MTA SZTAKI).

USPEX-BOINC

USPEX - Universal Structure Predictor;

BOINC — Berkeley Open Infrastructure for Network Computing;



USPEX and BOINC communication

USPEX:

- can be run on any UNIX-like operating system;
- is a MATLAB-application;
- can use different programs for local optimization;
- can launch local optimization program both local machine and remote cluster;
- `checkStatus_remote.m`;
- `submitJob_remote.m`.

Convertation

- Qemu-nbd,
Network Block Devices;
- Virtualbox-fuse.

Other solutions

- Rsync;
- Lsyncd.

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