

# SAGA

## Installation and Deployment

<http://faust.cct.lsu.edu/trac/saga/wiki/NeSC2009>

- We try to follow a semi-strict 6 week release cycle. The current release is 1.3.1 - bug fix release 1.3.2 is on the way
- We currently provide source-only releases
- The easiest way to obtain it is through the SAGA website:  
<http://saga.cct.lsu.edu/cpp/download>
- Public SVN access is also possible:  
<https://svn.cct.lsu.edu/repos/saga/trunk/>



- SAGA C++ Core Libraries and Header files
- Makefile templates for easy build system integration
- Python language bindings (95% complete)
- Installation Manual, Programming Guide, API Documentation
- Lots of examples
- Command line utilities for each functional package
- The SAGA shell

- Job Adaptors
  - Fork (localhost), SSH, Condor, Globus GRAM2, OMII GridSAM, Amazon EC2, Platform LSF
- File Adaptors
  - Local FS, Globus GridFTP, SSH, Hadoop Distributed Filesystem (HDFS), CloudStore KFS, OpenCloud Sector-Sphere
- Replica Adaptors
  - PostgreSQL/SQLite3, Globus RLS
- Advert Adaptors
  - PostgreSQL/SQLite3, Hadoop H-Base, Hypertable



- Other Adaptors
  - Default RPC / Stream / SD
- Planned Adaptors
  - CURL file adaptor, gLite job adaptor

- In order to build & install SAGA you need at least:
  - A UNIX operating system (Linux, MacOS, etc.)
  - A C++ Compiler (preferably gcc  $\geq$  3.4)
  - The Boost C++ Libraries (  $\geq$  1.33.1)
  - Python (if you want to build the Python language bindings)
- Adaptors may have additional requirements
  - PostgreSQL / SQLite client libraries
  - Globus / Condor / LSF installations
  - etc ...



- Configure/make - based build system
- Top-level configure/make recursively calls configures/makes for each adaptor, language bindings, etc...
- Fault tolerant: if one of the sub-level packages can't be configured (missing prerequisites, etc...) it is simply skipped
- Sub-level packages can be built outside the source tree
- We also provide XCode and VisualStudio project files

- We provide a simple deployment tool: Mephisto. Get it here:  
<http://macpro01.cct.lsu.edu/mephisto>

- It can be used to bootstrap the whole SAGA stack:

```
perl mephisto.pl install --target-dir=/opt/saga/
```

- ... even remotely:

```
ssh qb.loni.org /usr/bin/perl mephisto.pl install --target-dir=/work/oweidner/meph
```



# SAGA

A Simple API for Grid Applications [<http://saga.cct.lsu.edu>]

## DEPLOYMENT PLANS 2009/2010



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# THANKS

Questions / Comments ?