

```

emmanuel@emmanuel:~$ curl -O
https://raw.githubusercontent.com/firedrakeproject/firedrake/master/scripts/firedrake-install
% Total    % Received % Xferd Average Speed   Time    Time     Time  Current
           Dload  Upload  Total  Spent  Left  Speed
100 52362 100 52362    0     0 50696    0 0:00:01 0:00:01 --:--:-- 50738
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$ python3 firedrake-install
Running firedrake-install
The PETSC_DIR environment variable is set. This is probably an error.
If you really want to use your own PETSc build, please run again with the
--honour-petsc-dir option.

```

```

Install log saved in firedrake-install.log
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$ python3 firedrake-install --honour-petsc-dir
Running firedrake-install --honour-petsc-dir
Checking for presence of package build-essential...
    installed.
Checking for presence of package autoconf...
    installed.
Checking for presence of package automake...
    installed.
Checking for presence of package cmake...
    installed.
Checking for presence of package gfortran...
    installed.
Checking for presence of package git...
    installed.
Checking for presence of package libblas-dev...
    installed.
Checking for presence of package liblapack-dev...
    installed.
Checking for presence of package libopenmpi-dev...
    installed.
Checking for presence of package libtool...
    installed.
Checking for presence of package mercurial...
    installed.
Checking for presence of package openmpi-bin...
    installed.
Checking for presence of package python3-dev...
    installed.
Checking for presence of package python3-pip...
    installed.
Checking for presence of package python3-tk...
    installed.
Checking for presence of package python3-venv...
    installed.
Checking for presence of package zlib1g-dev...

```

installed.
Checking for presence of package libboost-dev...
installed.
Creating firedrake venv in '/home/emmanuel/firedrake'.
Cloning firedrake

Failed to clone firedrake using ssh, falling back to https.
Successfully cloned repository firedrake.
Checking out branch master
Successfully checked out branch master
Cloning the dependencies of firedrake
Cloning ufl

Failed to clone ufl using ssh, falling back to https.
Successfully cloned repository ufl.
Checking out branch master
Successfully checked out branch master
Cloning fiat

Failed to clone fiat using ssh, falling back to https.
Successfully cloned repository fiat.
Checking out branch master
Successfully checked out branch master
Cloning FInAT

Failed to clone FInAT using ssh, falling back to https.
Successfully cloned repository FInAT.
Checking out branch master
Successfully checked out branch master
Cloning tsfc

Failed to clone tsfc using ssh, falling back to https.
Successfully cloned repository tsfc.
Checking out branch master
Successfully checked out branch master
Cloning PyOP2

Failed to clone PyOP2 using ssh, falling back to https.
Successfully cloned repository PyOP2.
Checking out branch master
Successfully checked out branch master
Cloning the dependencies of PyOP2
Using existing petsc installation

Cloning petsc4py

Failed to clone petsc4py using ssh, falling back to https.
Successfully cloned repository petsc4py.
Checking out branch firedrake
Successfully checked out branch firedrake
Cloning COFFEE

Failed to clone COFFEE using ssh, falling back to https.

Successfully cloned repository COFFEE.

Checking out branch master

Successfully checked out branch master

Installing pip dependencies for petsc4py

No dependencies found. Skipping.

Installing pip dependencies for COFFEE

Installing pip dependencies for ufl

No dependencies found. Skipping.

Installing pip dependencies for fiat

No dependencies found. Skipping.

Installing pip dependencies for FInAT

Installing pip dependencies for tsfc

Installing pip dependencies for PyOP2

Installing pip dependencies for firedrake

Installing h5py

Cloning h5py

Failed to clone h5py using ssh, falling back to https.

Successfully cloned repository h5py.

Checking out branch firedrake

Successfully checked out branch firedrake

Linking h5py against PETSc found in /home/emmanuel/Documentos/petsc-3.9.0/arch-linux2-c-debug

Removing existing h5py installations

Installing h5py/

Installing libspatialindex

Cloning libspatialindex

Failed to clone libspatialindex using ssh, falling back to https.

Successfully cloned repository libspatialindex.

Checking out branch master

Successfully checked out branch master

Installing petsc4py/

Installing COFFEE/

Installing ufl/

Installing fiat/

Installing FInAT/

Installing tsfc/

Installing PyOP2/

Installing firedrake/

Traceback (most recent call last):

File "firedrake-install", line 1130, in <module>

install(p+"/")

File "firedrake-install", line 625, in install

run_pip_install(["-e", package])

File "firedrake-install", line 597, in run_pip_install

check_call(pipinstall + pipargs)

File "firedrake-install", line 435, in check_call

log.debug(subprocess.check_output(arguments, stderr=subprocess.STDOUT, env=env).decode())

```
File "/usr/lib/python3.5/subprocess.py", line 316, in check_output
    **kwargs).stdout
File "/usr/lib/python3.5/subprocess.py", line 398, in run
    output=stdout, stderr=stderr)
subprocess.CalledProcessError: Command '['/home/emmanuel/firedrake/bin/python', '-m', 'pip',
'install', '--no-binary', 'mpi4py', '--no-deps', '-vvv', '-e', 'firedrake/']' returned non-zero exit status 1
```

Install log saved in firedrake-install.log

```
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$ source firedrake/bin/activate
(firedrake) emmanuel@emmanuel:~$
(firedrake) emmanuel@emmanuel:~$ cd firedrake/src/firedrake/
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$ make alltest
    Building extension modules
running build_ext
skipping 'firedrake/dmplex.c' Cython extension (up-to-date)
skipping 'firedrake/extrusion_numbering.c' Cython extension (up-to-date)
skipping 'firedrake/hdf5interface.c' Cython extension (up-to-date)
building 'firedrake.hdf5interface' extension
mpicc -DNDEBUG -g -fwrapv -O2 -Wall -Wstrict-prototypes -g -fdebug-prefix-
map=/build/python3.5-nLrllb/python3.5-3.5.3=. -fstack-protector-strong -Wformat -Werror=format-
security -Wdate-time -D_FORTIFY_SOURCE=2 -fPIC
-I/home/emmanuel/firedrake/lib/python3.5/site-packages/numpy/core/include
-I/home/emmanuel/firedrake/lib/python3.5/site-packages/petsc4py/include
-I/home/emmanuel/Documentos/petsc-3.9.0/include -I/home/emmanuel/Documentos/petsc-
3.9.0/arch-linux2-c-debug/include -I/home/emmanuel/firedrake/include -I/usr/include/python3.5m
-c firedrake/hdf5interface.c -o build/temp.linux-x86_64-3.5/firedrake/hdf5interface.o
firedrake/hdf5interface.c:566:18: fatal error: hdf5.h: Arquivo ou diretório não encontrado
#include "hdf5.h"
^
```

compilation terminated.

error: command 'mpicc' failed with exit status 1

Linting firedrake codebase

Linting firedrake test suite

Linting firedrake scripts

```
scripts/firedrake-install.log:1:7: E999 SyntaxError: invalid token
scripts/firedrake-install.log:1:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:1:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:1:20: E231 missing whitespace after ','
scripts/firedrake-install.log:2:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:2:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:2:20: E231 missing whitespace after ','
scripts/firedrake-install.log:6:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:6:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:6:20: E231 missing whitespace after ','
scripts/firedrake-install.log:6:29: W291 trailing whitespace
Makefile:8: recipe for target 'lint' failed
make: *** [lint] Error 1
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$ sudo su
[sudo] senha para emmanuel:
```

```

root@emmanuel:/home/emmanuel/firedrake/src/firedrake# make alltest
Building extension modules
Traceback (most recent call last):
  File "setup.py", line 31, in <module>
    import versioneer
  File "/home/emmanuel/firedrake/src/firedrake/versioneer.py", line 1658
    file=sys.stderr)
    ^
SyntaxError: invalid syntax
Linting firedrake codebase
/usr/bin/python: No module named flake8
Makefile:8: recipe for target 'lint' failed
make: *** [lint] Error 1
root@emmanuel:/home/emmanuel/firedrake/src/firedrake#
root@emmanuel:/home/emmanuel/firedrake/src/firedrake#
root@emmanuel:/home/emmanuel/firedrake/src/firedrake# exit
exit
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$ source firedrake/bin/activate.csh
bash: firedrake/bin/activate.csh: Arquivo ou diretório não encontrado
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$ cd
(firedrake) emmanuel@emmanuel:~$
(firedrake) emmanuel@emmanuel:~$ source firedrake/bin/activate.csh
bash: alias: deactivate: não encontrado
bash: alias: `test $_OLD_VIRTUAL_PATH !': nome de apelido (alias) inválido
setenv: comando não encontrado
setenv: comando não encontrado
bash: firedrake/bin/activate.csh: linha 38: erro de sintaxe: fim prematuro do arquivo
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$ source firedrake/bin/activate.csh
bash: alias: deactivate: não encontrado
bash: alias: `test $_OLD_VIRTUAL_PATH !': nome de apelido (alias) inválido
setenv: comando não encontrado
setenv: comando não encontrado
bash: firedrake/bin/activate.csh: linha 38: erro de sintaxe: fim prematuro do arquivo
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$
emmanuel@emmanuel:~$ source firedrake/bin/activate
(firedrake) emmanuel@emmanuel:~$ cd firedrake/src/firedrake/
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$ make alltest
Building extension modules
running build_ext
skipping 'firedrake/dmplex.c' Cython extension (up-to-date)
skipping 'firedrake/extrusion_numbering.c' Cython extension (up-to-date)
skipping 'firedrake/hdf5interface.c' Cython extension (up-to-date)
building 'firedrake.hdf5interface' extension
mpicc -DNDEBUG -g -fwrapv -O2 -Wall -Wstrict-prototypes -g -fdebug-prefix-
map=/build/python3.5-nLrllb/python3.5-3.5.3=. -fstack-protector-strong -Wformat -Werror=format-
security -Wdate-time -D_FORTIFY_SOURCE=2 -fPIC

```

```
-I/home/emmanuel/firedrake/lib/python3.5/site-packages/numpy/core/include
-I/home/emmanuel/firedrake/lib/python3.5/site-packages/petsc4py/include
-I/home/emmanuel/Documentos/petsc-3.9.0/include -I/home/emmanuel/Documentos/petsc-
3.9.0/arch-linux2-c-debug/include -I/home/emmanuel/firedrake/include -I/usr/include/python3.5m
-c firedrake/hdf5interface.c -o build/temp.linux-x86_64-3.5/firedrake/hdf5interface.o
firedrake/hdf5interface.c:566:18: fatal error: hdf5.h: Arquivo ou diretório não encontrado
#include "hdf5.h"
```

^

compilation terminated.

error: command 'mpicc' failed with exit status 1

Linting firedrake codebase

Linting firedrake test suite

Linting firedrake scripts

```
scripts/firedrake-install.log:1:7: E999 SyntaxError: invalid token
scripts/firedrake-install.log:1:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:1:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:1:20: E231 missing whitespace after ','
scripts/firedrake-install.log:2:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:2:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:2:20: E231 missing whitespace after ','
scripts/firedrake-install.log:6:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:6:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:6:20: E231 missing whitespace after ','
scripts/firedrake-install.log:6:29: W291 trailing whitespace
```

Makefile:8: recipe for target 'lint' failed

make: *** [lint] Error 1

(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake\$

(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake\$

(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake\$ make alltest

Building extension modules

running build_ext

skipping 'firedrake/dmplex.c' Cython extension (up-to-date)

skipping 'firedrake/extrusion_numbering.c' Cython extension (up-to-date)

skipping 'firedrake/hdf5interface.c' Cython extension (up-to-date)

building 'firedrake.hdf5interface' extension

mpicc -DNDEBUG -g -fwrapv -O2 -Wall -Wstrict-prototypes -g -fdebug-prefix-

map=/build/python3.5-nLrllb/python3.5-3.5.3=. -fstack-protector-strong -Wformat -Werror=format-

security -Wdate-time -D_FORTIFY_SOURCE=2 -fPIC

-I/home/emmanuel/firedrake/lib/python3.5/site-packages/numpy/core/include

-I/home/emmanuel/firedrake/lib/python3.5/site-packages/petsc4py/include

-I/home/emmanuel/Documentos/petsc-3.9.0/include -I/home/emmanuel/Documentos/petsc-

3.9.0/arch-linux2-c-debug/include -I/home/emmanuel/firedrake/include -I/usr/include/python3.5m

-c firedrake/hdf5interface.c -o build/temp.linux-x86_64-3.5/firedrake/hdf5interface.o

firedrake/hdf5interface.c:566:18: fatal error: hdf5.h: Arquivo ou diretório não encontrado

#include "hdf5.h"

^

compilation terminated.

error: command 'mpicc' failed with exit status 1

Linting firedrake codebase

Linting firedrake test suite

Linting firedrake scripts

```
scripts/firedrake-install.log:1:7: E999 SyntaxError: invalid token
```

```
scripts/firedrake-install.log:1:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:1:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:1:20: E231 missing whitespace after ','
scripts/firedrake-install.log:2:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:2:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:2:20: E231 missing whitespace after ','
scripts/firedrake-install.log:6:14: E231 missing whitespace after ':'
scripts/firedrake-install.log:6:17: E231 missing whitespace after ':'
scripts/firedrake-install.log:6:20: E231 missing whitespace after ','
scripts/firedrake-install.log:6:29: W291 trailing whitespace
Makefile:8: recipe for target 'lint' failed
make: *** [lint] Error 1
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$
(firedrake) emmanuel@emmanuel:~/firedrake/src/firedrake$
```