

Installation de PARI/GP

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Introduction

This talk focuses on the current development version of the PARI library (2.10.*), available from our GIT repository, see

<http://pari.math.u-bordeaux.fr/anongit.html>

The text of this talk is available in the files `sources.*` in

[http://pari.math.u-bordeaux.fr/Events/
PARI2017c/talks/](http://pari.math.u-bordeaux.fr/Events/PARI2017c/talks/)

Windows users

Download a precompiled 64bit installer

`Pari64-2-10-0.A2017c.exe` or 32bit binary

`Pari32-2-10-0.A2017c.exe` from

[http://pari.math.u-bordeaux.fr/pub/pari/
windows/snapshots/](http://pari.math.u-bordeaux.fr/pub/pari/windows/snapshots/)

Also available are precompiled 64bit binary

`gp64-gmp-git*.exe` or 32bit binary `gp32-gmp-git*.exe`.

Mac OS users

Download a precompiled DMG

`PariGP-full-2.10.0.A2017c.dmg` from

<http://pari.math.u-bordeaux.fr/pub/pari/mac/snapshots/>

Also are precompiled binary `gp-git*-osx`.

Debian/Ubuntu

On Debian/Ubuntu, to install all the packages required to build pari from source:

```
sudo apt-get build-dep pari
```

From source with GIT

Clone the PARI repository with GIT (~ 150MB).

```
git clone http://pari.math.u-bordeaux.fr/git/pari.git
cd pari
```

From source without GIT

Download `pari-2.10.0.A2017c.tar.gz` from

`http://pari.math.u-bordeaux.fr/pub/pari/snapshots/`

and unpack it

```
tar xf pari-2.10-*.tar.gz
cd pari-2.10-*
```

PARI compilation

```
./Configure --prefix=GPDIR --mt=pthread  
make -j4 gp  
make doc  
make statetest-all  
make install  
make install-bin-sta  
GPDIR/bin/gp
```


GP configuration

Create and customize `~/.gprc`. Add

```
histfile = "~/.gp\_history"  
colors = "lightbg" \\ or "darkbg"  
lines = 40  
parisizemax = 4G \\ or the maximum amount of memory  
                \\ GP can use (important)  
read "~/.gprc.gp"
```

Create an empty file `~/.gprc.gp`

Updating GIT

To update GIT to the most recent revision:

```
git fetch
git rebase origin/master
```