

COPRTHR-2-Beta (Anthem)

Release Notes

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Disclaimer: this documentation is provided for informational purposes only and is subject to change.

1 Installation

1.1 Prerequisites

The prerelease is built on the January 2015 Parallella image:

```
] uname -a  
Linux parallella3 3.14.12-parallella-xilinx-g40a90c3 #1 SMP PREEMPT Fri Jan  
23 22:01:51 CET 2015 armv7l armv7l armv7l GNU/Linux
```

We are aware of the recent release of an updated image for Parallella and can absolutely, positively guarantee that at present COPRTHR-2 is not compatible with this new image.

There is one missing package on Parallella that must be installed:

```
] sudo apt-get install libreadline6 libreadline6-dev
```

1.2 Backup COPRTHR-1 installation

At present, COPRTHR-2 does not coexist nicely with COPRTHR-1. Therefore, you will want to move the default COPRTHR-1 installation out of the way **before** installing COPRTHR-2. A convenient way to do this is:

```
] sudo tar -jcvf /usr/local/browndeer.coprthr1.tbz /usr/local/browndeer  
] sudo rm -Rf /usr/local/browndeer
```

1.3 Install COPRTHR-2

Finally install the COPRTHR-2-Beta (Anthem) package:

```
] tar -zxvf coprthr-2-beta-20160701.tgz  
] cd bdt_anthem-20160701  
] sudo sh run_installer_bdt_anthem-20160701.sh -c
```

If (apparently) successful, get a new shell and see if *coprcc* is now available:

```
] bash  
] which coprcc  
/usr/local/browndeer/coprthr2/bin/coprcc
```

1.4 Examples

Copy the directory `/usr/local/browndeer/coprthr2/examples` to a working directory and try to build and run the cannon example found at `examples/cannon/`. This performs a matrix-matrix-multiply using the Cannon algorithm implemented with threaded MPI. Another interesting test would be the “hello, world” example under `examples/hello_world/` since it uses no host code, just a *main()* function that can be compiled and executed directly.

Also, see the *COPRTHR-2 Epiphany/Parallella Developer Resources* page on the BDT website under *Resources* for new example code and tutorials as they become available.