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# A step-by-step guide to installing dune-artdaq at the Oxford teststand

**John Freeman, Mar-14-2017: due to a change in network accessibility between pplxdaq05 and the outside world, the instructions below are no longer necessary. To install dune-artdaq, you can instead follow the standard instructions, located at**

**[https://cdcvs.fnal.gov/redmine/projects/dune-artdaq/wiki/Installing\\_dune-artdaq](https://cdcvs.fnal.gov/redmine/projects/dune-artdaq/wiki/Installing_dune-artdaq)**

*The following instructions assume you want to install and build dune-artdaq in a directory called "developarea\_dune-artdaq-test". You can, of course, choose whatever directory name you wish.*

First, log into dune-nat as "artdaq1". Then execute the following:

```
mkdir ~/developarea_dune-artdaq-test
cd ~/developarea_dune-artdaq-test
ln -s ~/products
ln -s ~/downloads
. products/setup
setup git
wget https://cdcvs.fnal.gov/redmine/projects/dune-artdaq/repository/revisions/develop/raw/tools/q
chmod 755 quick-mrb-start.sh
./quick-mrb-start.sh --noviewer --not-dune-artdaq-developer --dune-raw-data-develop-branch
```

Let the installation proceed until you see

```
CMake will not be able to correctly generate this project.
```

```
Call Stack (most recent call first):
```

```
  CMakeLists.txt
```

```
-- Configuring incomplete, errors occurred!
```

```
See also "/home/artdaq1/developarea_dune-artdaq-test/build_slf6.x86_64/CMakeFiles/CMakeOutput.log"
```

```
See also "/home/artdaq1/developarea_dune-artdaq-test/build_slf6.x86_64/CMakeFiles/CMakeError.log"
```

```
-----
ERROR: Stage cmake failed.
-----
```

```
Build error. If all else fails, try (A) logging into a new terminal and (B) creating a new direct
```

Don't worry - the above is to be expected. What to do next is to copy the directory via the "rsync" command over to pplxdaq05, and then to log into pplxdaq05:

```
rsync -avz $PWD artdaq1@pplxdaq05:/home/artdaq1/
ssh pplxdaq05
```

Once you're on pplxdaq05, do the following:

```
cd ~/developarea_dune-artdaq-test
. setupDUNEARTDAQ
mrb b -j8
```

and the build will occur. When it's done, you should see the following:

```
-----
INFO: Stage build successful.
-----
```

If you don't see the above, please contact John Freeman at [jcfree@fnal.gov](mailto:jcfree@fnal.gov).

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If later you've modified the dune-raw-data code (at ~/developarea\_dune-artdaq-test/srcs/dune\_raw\_data) and/or the dune-artdaq code (at ~/developarea\_dune-artdaq-test/srcs/dune\_artdaq) and wish to recompile, again do the following:

```
cd ~/developarea_dune-artdaq-test
. setupDUNEARTDAQ
mrb b -j8
```

and again, if there aren't any syntax errors in the code and it builds correctly, you should see:

```
-----
INFO: Stage build successful.
-----
```

-- JohnChristianFreeman - 2017-03-09

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