Building and installing UHD from source code

UHD is open-source, and is hosted on GitHub. You can browse the code online at the link below, which points to version 3.14.0.0, which is the the latest release at the time of this writing.

* [UHD repository on GitHub](https://github.com/EttusResearch/uhd/tree/v3.14.0.0)

There are several good reasons to build GNU Radio from source code, especially for doing development and prototyping. It it enables an easy way to customize the location of the installation, and to install multiple UHD versions in parallel, and switch between them. It also provides much more flexibility in upgrading and downgrading versions, and allows the user to modify the code and create customized versions, which could possibly include a patch or other bug-fix.

To build UHD from source code, clone the GitHub repository, check out a branch or tagged release of the repository, and build and install. Please follow the steps below. Make sure that no USRP device is connected to the system at this point.

First, make a folder to hold the repository.

cd $HOME

mkdir workarea

cd workarea

Next, clone the repository and change into the cloned directory.

git clone https://github.com/EttusResearch/uhd

cd uhd

Next, checkout the desired UHD version. You can get a full listing of tagged releases by running the command:

git tag -l