RHINO Documentation

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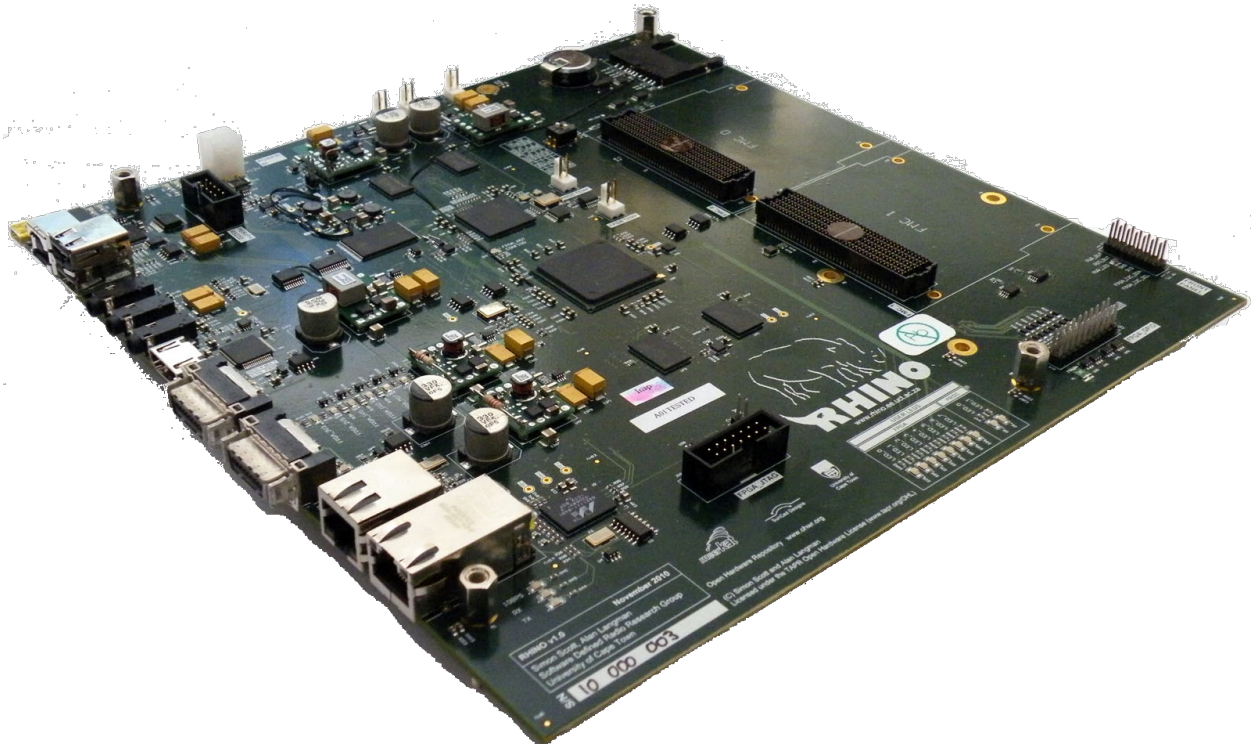
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Contents:

1 Setting up NFS **3**
- 1.1 Requirements . . . 3
- 1.2 Host PC . . . 3
- 1.3 RHINO . . . 4

2 Contributors **5**

Set of basic tutorials/building blocks for using the RHINO platform and its features.



CHAPTER 1

Setting up NFS

Instructions on how to set up a network file system (NFS) for RHINO.

Using an NFS eases RHINO development, moving files onto the RHINO is as simple as dragging and dropping into a shared directory.

The following steps assume default values, set up in [prepping the rhino].

Todo: set up link to "prepping the rhino"

1.1 Requirements

RHINO <—usb cable + ethernet cable—>HOST PC

Todo: point to "prepping the rhino/console" for now, look at: the old docs

1.2 Host PC

1. Install NFS server

```
$ sudo apt-get install nfs-kernel-server
```

2. Create NFS directory

```
$ sudo mkdir /opt/rhinofs
$ sudo chmod 777 /opt/rhinofs
```

Todo: need to recursively change permissions of /opt/rhinofs

3. Point NFS server to RHINO filesystem

```
$ sudo chmod 666 /etc/exports
$ sudo echo "/opt/rhinofs       *(rw,nohide,insecure,no_subtree_check,async,no_root_
↪squash)" >> /etc/exports
```

4. Download the RHINO-filesystem

Todo: investigate problems when trying to download + extract using wget/curl

5. Extract the filesystem into the NFS directory

```
$ sudo tar -xf rhinofs.tar.gz -C /opt/rhinofs
```

6. Start NFS server

```
$ sudo service nfs-kernel-server start
```

1.3 RHINO

1. Power on RHINO and interrupt autoboot by pressing any key
2. (optional) Set NFS as default boot mode

```
RHINO # setenv run nfsboot
RHINO # saveenv
```

3. Boot from NFS

```
RHINO # run nfsboot
```

4. Wait for a new SSH key to be generated

CHAPTER 2

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