R and RStudio at the SC 11 Education Program

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Session Materials

Session materials will be made available at http://www.calvin.edu/~rpruim/talks/SC11/.

Access to R and RStudio

R is a programming language and computing environment designed for visualization and analysis of data. RStudio is an integrated development environment for R that makes working with R (1) easier, (2) more consistent across platforms, and (3) available from within a web browser.

There are several ways to use RStudio for these sessions:

1. **Recommended Method:** Participants at the sessions will receive a username and password that allows them to login to an RStudio server hosted on dahl, the beowulf cluster at Calvin College, using the URL http://dahl.calvin.edu:8787.

2. RStudio has also been installed on the loaner laptops for SC11. This is primarily as a failsafe in case you have trouble with the internet connection to dahl.

3. You can also download and install both R and RStudio on your own computer. Versions exist for Mac, PC, and Linux. You can get them here:
   - **R:** http://www.r-project.org
     Follow the directions under “getting started”.
   - **RStudio:** http://rstudio.org
     Note that RStudio requires that R be installed.

Installing R Packages

These session make use of a number of packages. These packages have been installed on our server and on the loaner laptops. If you are using your own machine (during the conference or after your return), you can use the following command to install all of these packages in one go:

```
```

This may take several minutes to complete.