Building Goto BLAS

<u>**Note**</u>: Things that you should type are in the **`computer boldface`** font.

1. Open up a web browser.

2. Go to your favorite search engine (e.g., Google).

3. Search for:

    GotoBLAS

4. Go to the Texas Advanced Computing Center (TACC) software website.

5. Go to the list of software available for download.

6. Click on GotoBLAS2.

7. Click on Downloads.

8. Follow the links to create a user name, then log in, then download the GotoBLAS source code.

9. Upload the source code to the computer you want to install it on.

10. Log in to the computer that you want to build NetCDF on.

11. Create a directory to do this build in:

    `mkdir GotoBLAS`

12. Go into that directory:

    `cd GotoBLAS`

13. Move the compressed tar file to you uploaded to that directory; for example:

    `mv ~/GotoBLAS2-1.13.tar.gz ~/GotoBLAS`

14. "Untar" the compressed tar file:

    `tar zxvf GotoBLAS2-1.13.tar.gz`

15. Go into the newly created GotoBLAS directory:

    `cd GotoBLAS2`

16. Determine your current working directory:

    `pwd`

17. Read the file named `02QuickInstall.txt`, which has instructions for how to install GotoBLAS:

    `more 02QuickInstall.txt`

    If you're unfamiliar with the `more` command, ask someone for help.

18. Probably you can just do the default build via this command:

    `make FC=gfortran`

    This will take several minutes. (The bit about `gfortran` – which is the GNU implementation of Fortran – is because GotoBLAS defaults to commercial compilers if it finds any, but we're sticking to a pure GNU buld, for simplicity.)

19. Check that the output from the `make` command shows that you built GotoBLAS properly.