Getting started with running E3SM

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You should already…. 

• Have access to an E3SM supported machine
  – This tutorial will use “Edison” at NERSC.
    • See http://www.nersc.gov/users/accounts/allocations/ for getting an allocation
    – See https://e3sm.org/model/running-e3sm/supported-machines/

• Be familiar with Linux/Unix operating system and basic commands
  – E3SM is controlled through the command line.
Making an E3SM executable

• E3SM is a compiled program. You must compile your own version of the program from your own copy of the code to use E3SM.

• Compiling a complex program like E3SM on a supercomputer is simplified by several provided scripts.
Using a single script to run the model: run_e3sm
Using CIME commands to run the model.
Location of output from the model

• Most of what we looked at was in the “case directory”

• To find the build system output including the executable:
  – ./xmlquery EXEROOT

• To find the output from running the model:
  – ./xmlquery RUNDIR
For more information

- e3sm.org
- https://e3sm.org/forums/forum/ask-a-question/