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Steps on automatic optimization on Pleiades

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1. Start the initial iteration (iteration 0)

2. Once the forward mode of iteration 0 is finished;

Generate the executable for optimization (optim.x) following the README file in <https://github.com/ECCO-GROUP/ECCO-v4-Configurations/tree/master/ECCOv4%20Release%204/optimization>

Create directories ctrl.runname and optim.runname (replace runname with the actual run name) as specified in the example script for automating iterations at

https://github.com/ECCO-GROUP/ECCO-v4-Configurations/blob/master/ECCOv4%20Release%204/scripts/example_autoiter.csh. The

ctrl.runname will be empty. The optim.runname will be similar to the optim directory at

<https://github.com/ECCO-GROUP/ECCO-v4-Configurations/tree/master/ECCOv4%20Release%204/scripts/optim>. One needs to replace the

executable optim.x with the one generated above. One also needs to set fmin in data.optim. See the README file inside optim.

3. After the initial iteration finished the adjoint mode, use the example script to do multiple iterations.