Numerical methods and F90, fall 2015

Exercise 10 (the very last one)

Return by Dec 16.

- 1. Generate a sequence of random numbers and use the autocorrelation function to test potential periodicity.
- 2. Use the first degree structure function to study possible periodicity of the sequence of the previous problem.
- 3. Modify the forking program of the previous exercises to handle functions of two variables. Proceed alternatingly in the directions of the x and y axes. Test the program by finding the minimum of the Rosenbrock banana function.
- 4. Investigate the linear algebra module to find which loops can be run in parallel mode on several processors. (No programming needed!)