

MIT 18.337/6.338:

Numerical Computing with Julia

MW 2-3:30 pm -- Room: 4-237 -- Prof. Alan Edelman

Topics:

- Why is Julia so fast?
- Parallel Computing with Julia
- The design of Julia
- Linear Algebra Algorithms in Julia
- Composable Abstractions



Julia has demonstrated that a numerical computing language can be easy to use, elegant, and fast. This course will ask and perhaps try to answer the really hard questions such as

- Why is it that hardly anyone is using much parallel computation? (we think the answer is not hardware, not need, but language and convenience!)
- What could we accomplish if we had one language that extends well beyond numerical computation?

Monte Carlo Case Study:
(parallel code hardly different from serial code)

