PackageEcosystem

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1 Overview of the Package Ecosystem

2 Good Packages to Know

3 Interop

3.0.1 ccall

While not technically a package because it's built into Julia, `ccall` is very important to know. The documentation page for `ccall` is: http://docs.julialang.org/en/release-0.4/manual/calling-c-and-fortran-code/. I wrote a tutorial for using ccall: http://www.stochasticlifestyle.com/using-julias-c-interface-utilize-c-libraries/

Xeon Phi Note that you can use ccall to control Xeon Phi acceleration cards: http://www.stochasticlifestyle.com/interfacing-xeon-phi-via-julia/

3.0.2 Cxx.jl

3.0.3 RCall

3.0.4 PyCall

3.0.5 MATLAB.jl

3.0.6 CUDArt.jl

http://www.stochasticlifestyle.com/julia-on-the-hpc-with-gpus/
http://www.stochasticlifestyle.com/multiple-gpu-on-the-hpc-with-julia/

4 Plotting

Visualizations are provided by external packages. The standard package for plotting is Plots.jl.

5 Statistics

Statistical libraries in Julia are curated by JuliaStats. Their website can be found here: http://juliastats.github.io/ (old). Some packages of note are:

6 Differential Equations

7 Optimization

8 Misc