ILNumericsLight Requirements

# Central Goals

* ILNumericsLight shall, in general, execute corresponding math functions faster than Matlab version 2008a.
* ILNumericsLight shall maintain at half or less the number of lines of code as ILNumerics.Net and the compiled binary shall be half or less the size of the ILNumerics.Net.dll binary.
* ILNumericsLight shall maintain the same understandability, ease of use, and (except where otherwise specified) functionality of ILNumerics.Net

# Iteration 1

* The ILNumericsLight algorithms shall not use the complex indexing required by internal arrays referencing other internal arrays.
* ILNumericsLight shall only support double, complex double, and logical types.

# Iteration 2

* It shall not be possible to construct an ILArray of an unsupported type.
* If an unsupported type is loaded from a \*.mat file, an error shall be generated.