

Linear systems,  
Analysis times,  
Intel MKL,  
Multi-threading

# Intel's Math Kernel Library

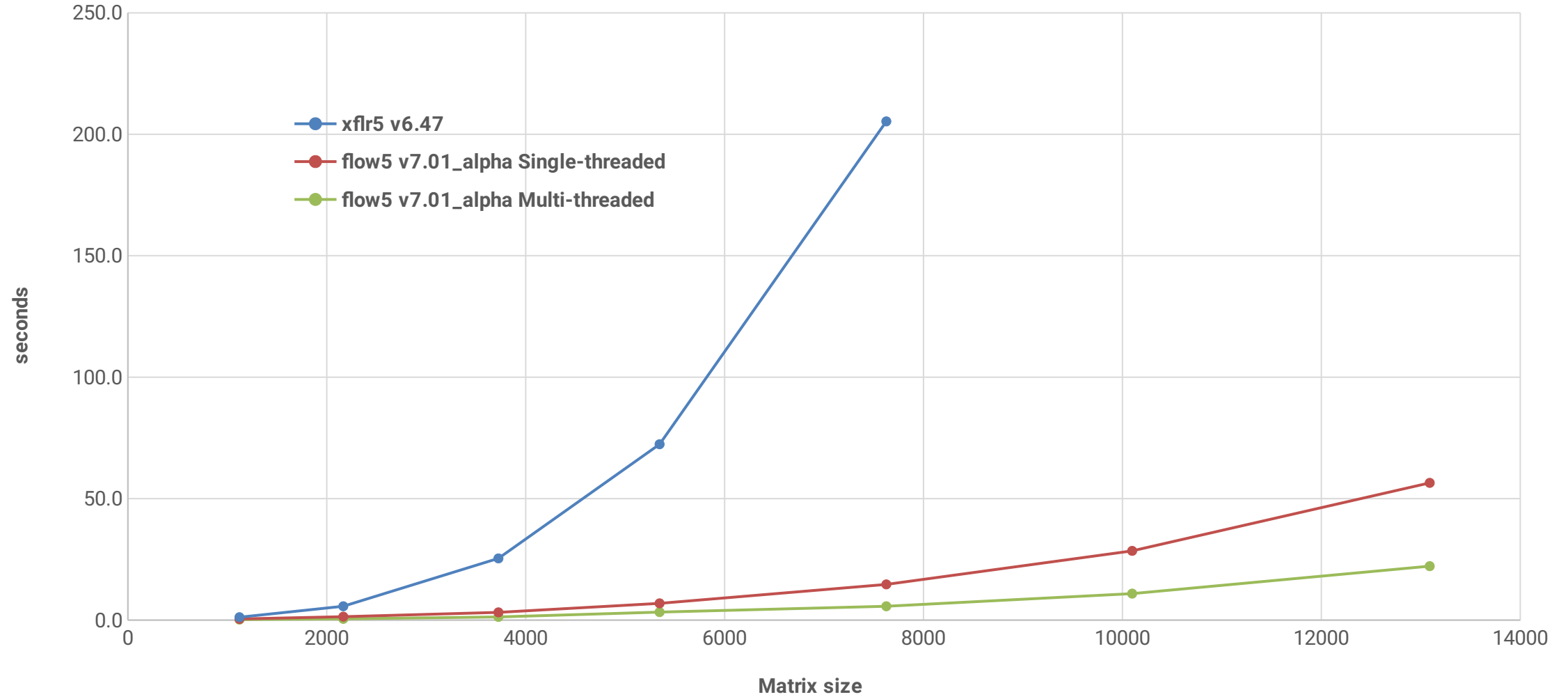


Intel's Math Kernel Library (Intel MKL) is a library of optimized math routines for science, engineering, and financial applications. Core math functions include BLAS, LAPACK, ScaLAPACK, sparse solvers, fast Fourier transforms, and vector math. The routines in MKL are hand-optimized specifically for Intel processors. The library supports Intel processors and is available for Windows, Linux and macOS operating systems.

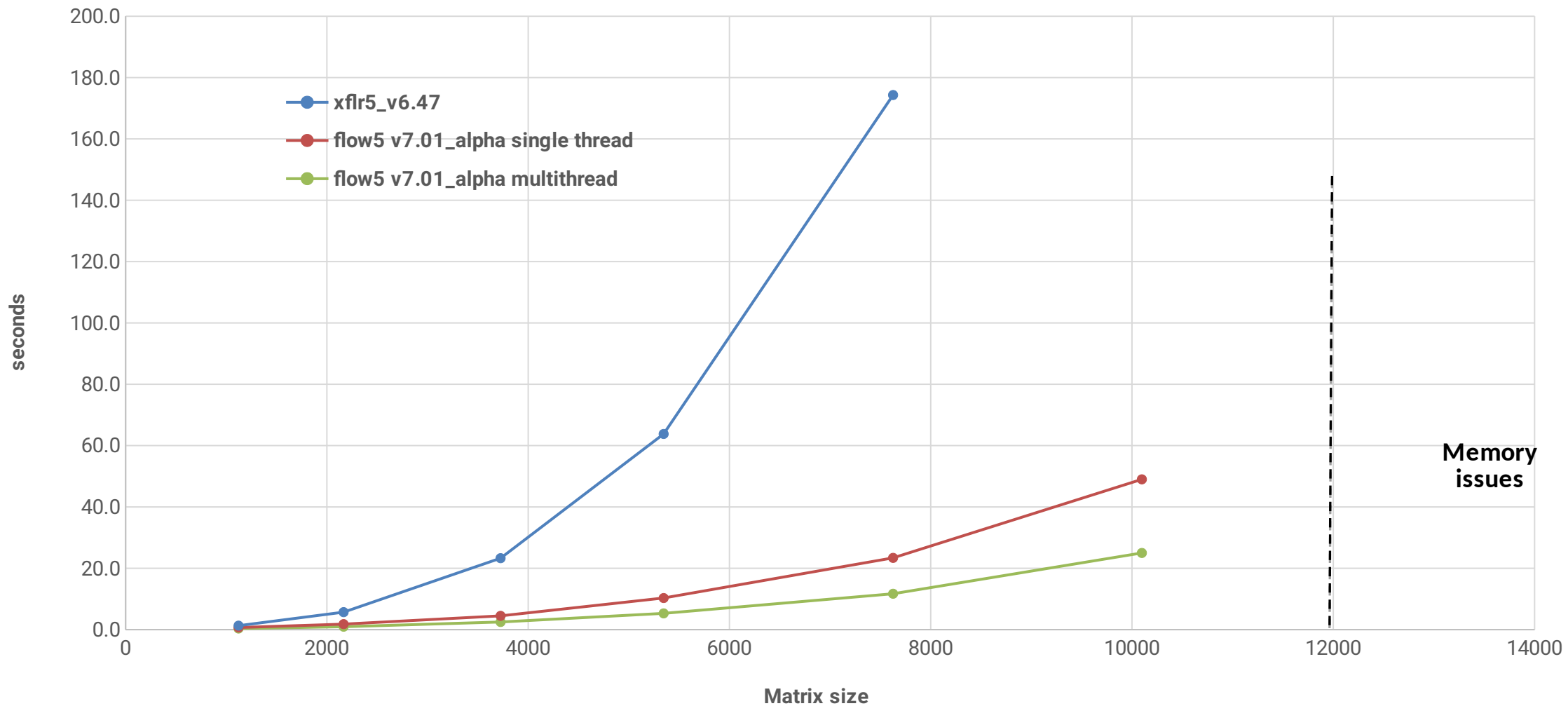
### Analysis times

win64 - Intel Core i5-7300HQ CPU @2.50GHz, 4 cores

RAM 8GB



**Analysis times**  
macOS on macMini 2014 Intel i5 1.4GHz 4 cores  
**RAM 4GB**



# Concluding notes

1. Although the MKL library should run on processors other than Intel's with comparable performance, please note that there is no guarantee from Intel that this will indeed be the case.
2. Unlike the LU decomposition in xflr5, the tasks performed by MKL cannot be interrupted. Be careful when requesting analyses with high mesh densities.

