## Programming techniques for physical simulations Exercise 5

## Cache size & Performance

The aim of this exercise is to determine the number and size of cache levels of your computer. Write a program which adds n consecutive numbers in memory and time this routine using the gettimeofday() function. Since the execution time for one loop and e.g. 1024 Bytes is much too short to be measured with gettimeofday(), you have to repeat the loop many times in order to obtain a meaningful result. Visualize the performance by plotting the bytes added per second as a function of n. Interpret the result!