Intel® Core[] i5-6300HQ CPU @ 2.30GHz (Skylake) L1: 32KB, L2: 256KB, L3: 6MB Compiler: clang 12.0.0 Flag:-march=native -03 12 add_naive 75% Theoretical Maximum Performance (with FMA) add inplace add_inplace_vec add_inplace_vec_2x_unroll 10 add_inplace_vec_3x_unroll L1 Cache L2 Cache L3 Cache add_inplace_vec_4x_unroll Performance [FLOPS/cycle] add_inplace_vec_6x_unroll 100% Theoretical Maximum Performance (no FMA) add_inplace_vec/8x_unroll 2 2^{10} 2^{11} 2³ 2^4 2⁵ 26 2^7 28 2¹² 2¹³ 2^{14} 215 2^{16} 2^{17} 29 Quad-double array size