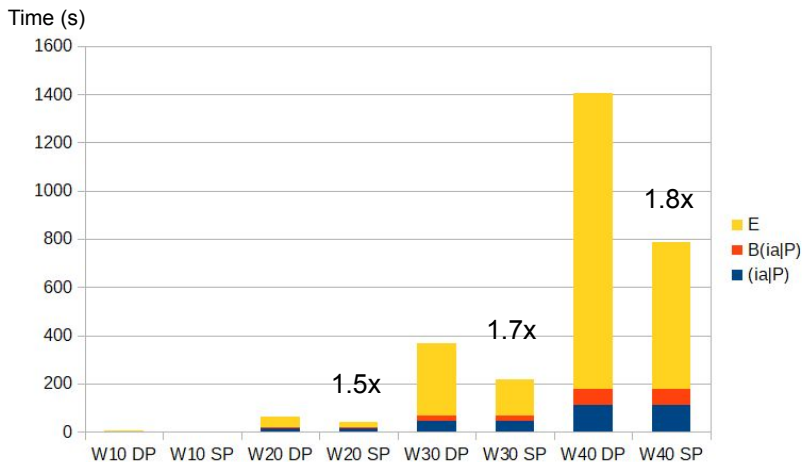


## Evaluation of RI-MP2 correlation energy using mixed precision arithmetic

$$E = \sum_{i,j,a,b} \sum_P \frac{\left[ B_{ia}^P B_{jb}^P - B_{ib}^P B_{ja}^P \right]^2}{(e_i + e_j) - (e_a + e_b)}$$

Computational speedup due to using single-precision MM for B\*B contractions



Absolute error in final RI-MP2 energy due to reduced precision. Values below  $10^{-6}$  are acceptable.

