Parallel Fast Gauss Transform

16 November 2010

Outline

Outline

$$F(x) = \int_{\Omega} \|x - y\|^{2n} e^{-\frac{\|x-y\|^2}{\delta}} f(y)\, d\Omega$$

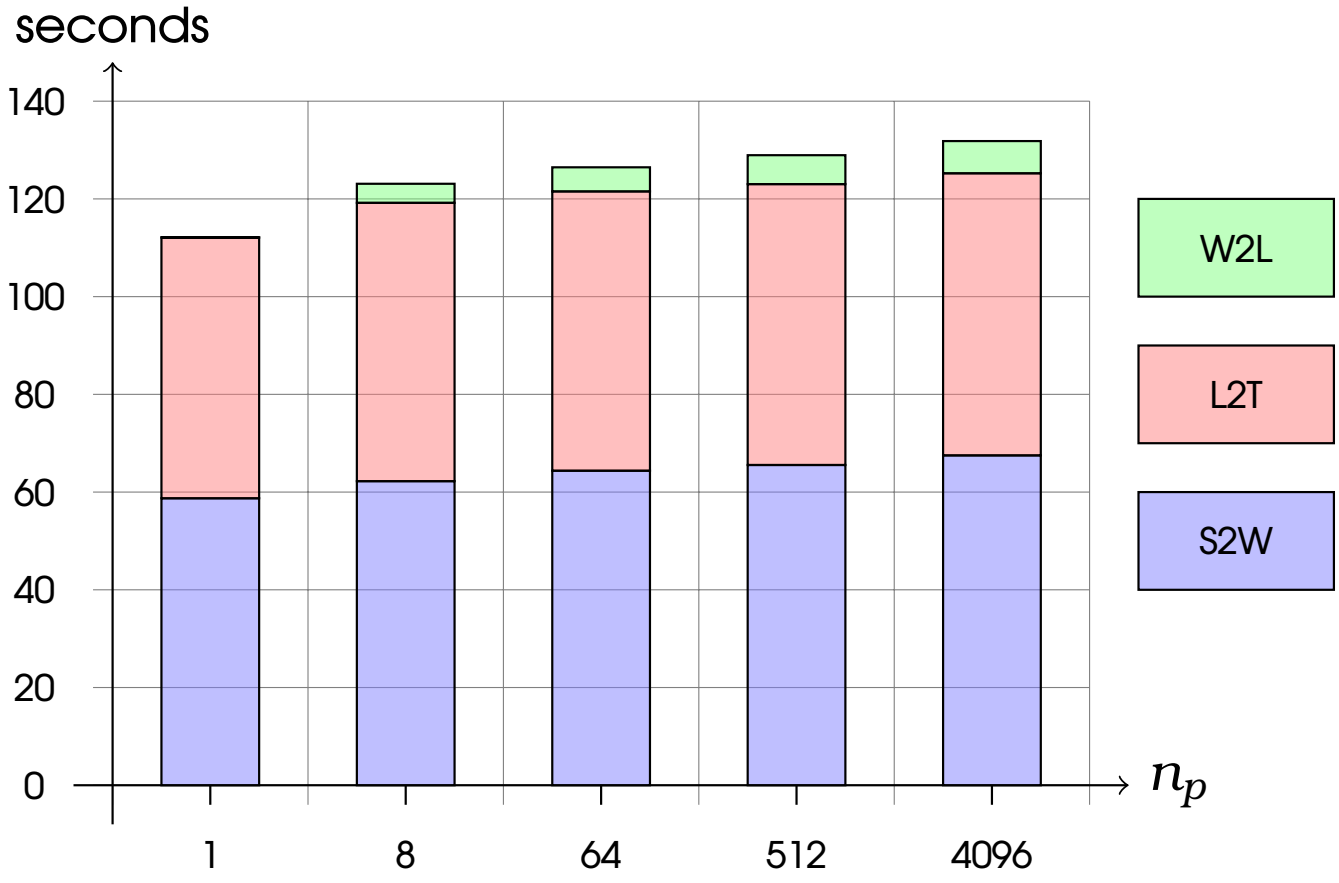
Outline

Outline

Outline

Results

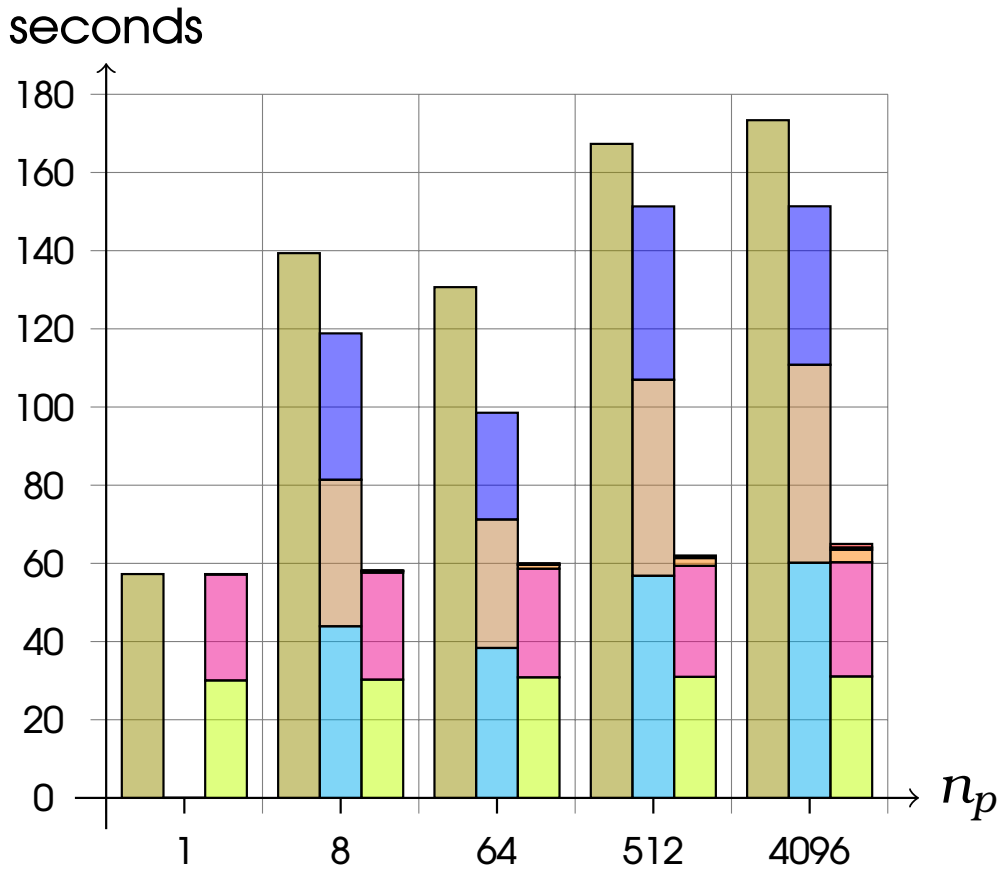
Uniform distribution



≈ 30M Points/CPU

Results

Gaussian distribution



D2L	0	43.93	38.37	56.84	60.18
W2D	0	37.48	32.88	50.16	50.65
D2D	0	37.46	27.31	44.36	40.56
L2T	30.07	30.27	30.86	30.97	31.08

Outline

Thank You !