

CPUID	Instructions	Motivation
AVX-512 PRI	PREFETCHWT1	Reduce ring traffic in core-to-core data communication
	VGATHERPF{D,Q}{0,1}PS	Reduce overhead of software prefetching: <i>dedicate side engine to prefetch sparse structures while devoting the main CPU to pure raw flops</i>
	VSCATTERPF{D,Q}{0,1}PS	
AVX-512 ERI	VEXP2{PS,PD}	Speed-up key FSI workloads: Black-Scholes, Montecarlo
	VRCP28{PS,PD}	Key building block to speed up most transcendental sequences (in particular, division and square root): <i>Increasing precision from 14=&gt;28 allows to reduce one complete Newton-Raphson iteration</i>
	VRSQRT28{PS,PD}	