



Operator in 45nm	Energy (Post-Layout)		Energy (Scaled)		Horowitz ISSCC 2014 @ 0.9 V
	Random Data @ 1.1 V	Small Data @ 1.1 V	Random Data @ 0.9 V	Small Data @ 0.9 V	
8-bit add	0.06 pJ	0.02 pJ	0.04 pJ	0.01 pJ	0.03 pJ
32-bit add	0.28 pJ	0.10 pJ	0.19 pJ	0.07 pJ	0.10 pJ
8-bit mul	0.45 pJ	0.05 pJ	0.30 pJ	0.03 pJ	0.20 pJ
32-bit mul	7.70 pJ	1.89 pJ	5.15 pJ	1.27 pJ	3.10 pJ
32-bit mul*	3.57 pJ	2.00 pJ	2.39 pJ	1.34 pJ	3.10 pJ*
16-bit fadd	1.00 pJ	0.91 pJ	0.67 pJ	0.61 pJ	0.40 pJ
32-bit fadd	2.56 pJ	2.47 pJ	1.71 pJ	1.65 pJ	0.90 pJ
16-bit fmul	0.74 pJ	0.70 pJ	0.49 pJ	0.47 pJ	1.10 pJ
32-bit fmul	4.81 pJ	4.75 pJ	3.22 pJ	3.18 pJ	3.70 pJ