

Measured Speed-Up for Tesla C2050 vs. Core i7-975				
Function	Matrix		Vector	
	Single	Double	Single	Double
<code>all</code>	4.60	4.94	9.13	7.86
<code>any</code>	4.57	5.04	9.09	8.01
<code>asinh</code>	57.23	12.15	55.96	12.16
<code>atan2</code>	374.93	98.02	375.10	98.34
<code>atan</code>	50.55	8.14	51.18	8.49
<code>besselj</code>	20.21	9.13	20.26	9.13
<code>chol</code>	39.03	2.04	—	—
<code>conv2</code>	2.69	—	—	—
<code>cos</code>	34.05	16.09	35.50	13.36
<code>det</code>	2.29	2.04	—	—
<code>exp</code>	58.85	22.01	57.97	26.81
<code>find</code>	39.63	36.55	39.77	37.69
<code>interp2</code>	806.10	394.09	—	—
<code>inv</code>	—	1.78	—	—
<code>log</code>	41.33	13.53	42.54	13.70
<code>lu</code>	2.69	2.44	0.44	0.52
<code>max</code>	1.22	2.23	2.16	3.17
<code>min</code>	1.22	2.23	2.23	3.13
<code>minus</code>	24.34	11.23	24.36	11.07
<code>mldivide</code>	3.00	2.13	—	—
<code>mpower</code>	8.75	5.67	—	—
<code>norm</code>	0.56	0.90	4.99	49.44
<code>plus</code>	24.30	11.15	24.35	11.30
<code>power</code>	83.33	32.52	81.44	32.44
<code>rand</code>	48.02	45.53	48.07	45.40
<code>randn</code>	31.03	18.29	31.03	18.21
<code>rdivide</code>	14.50	7.02	14.52	7.02
<code>subsasgn</code>	0.10	0.10	0.01	0.01
<code>sum</code>	1.38	2.52	2.11	3.08
<code>svd</code>	0.18	0.28	0.02	0.04
<code>times</code>	29.42	11.28	29.43	11.16

Table 1: Measured `Jacket` performance as GPU speed-up relative to a CPU. The CPU is running with the maximum number of threads. Matrix size:  $2000 \times 2000$ . Vector size:  $4.00 \cdot 10^6 \times 1$ . Matrix and vector SVD size is  $\frac{1}{10}$  of the matrix size otherwise used. MATLAB version: 7.10.0.499 (R2010a). Jacket version: Jacket v1.4.1 (build 7080). Operating system: 64-bit Windows.