

Measured Speed-Up for GeForce GTX465 vs. Core i7-975				
Function	Matrix		Vector	
	Single	Double	Single	Double
<code>all</code>	3.85	4.16	9.00	8.13
<code>any</code>	3.83	4.26	8.87	8.55
<code>asinh</code>	46.63	5.40	46.38	5.31
<code>atan2</code>	306.14	48.67	306.37	48.68
<code>atan</code>	42.09	3.76	42.09	3.76
<code>besselj</code>	16.81	3.78	16.81	3.78
<code>chol</code>	36.00	1.46	—	—
<code>conv2</code>	2.25	—	—	—
<code>cos</code>	26.13	6.86	26.13	6.86
<code>det</code>	1.98	1.59	—	—
<code>exp</code>	48.55	10.03	48.55	10.01
<code>find</code>	17.93	16.92	17.93	16.92
<code>interp2</code>	347.50	336.22	—	—
<code>inv</code>	—	1.63	—	—
<code>log</code>	35.44	6.26	34.34	6.25
<code>lu</code>	2.60	2.06	0.38	0.41
<code>max</code>	1.02	1.86	2.40	3.26
<code>min</code>	1.02	1.86	2.39	3.25
<code>minus</code>	18.81	8.65	18.81	8.67
<code>mldivide</code>	2.87	1.93	—	—
<code>mpower</code>	7.67	2.89	—	—
<code>norm</code>	0.61	0.96	4.85	46.88
<code>plus</code>	18.78	8.68	18.79	8.75
<code>power</code>	67.83	11.48	67.83	11.48
<code>rand</code>	44.83	37.05	44.75	37.21
<code>randn</code>	30.62	9.12	30.52	9.12
<code>rdivide</code>	11.20	4.89	11.20	4.91
<code>subsasgn</code>	0.10	0.10	0.01	0.01
<code>sum</code>	1.15	2.13	2.42	3.25
<code>svd</code>	0.19	0.28	0.02	0.03
<code>times</code>	22.27	8.64	22.28	8.63

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: 2000×2000 . 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.