Sheet1

						Sneet1					
				D = 32, M	= 1000						
			N = 200	<b>5 52</b> ,		N = 800			N = 1600		
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total
Serial	<b>Euclid Quicksort</b>	0.02133	0.023122	0.044452	0.074729	0.084901	0.15963	0.148413	0.167418	0.315831	1.428808
		47.98%	52.02%	100.00%	46.81%	53.19%	100.00%	46.99%	53.01%	100.00%	Total
	Euclid Mergesort	0.018935	0.020924	0.039859	0.078226	0.083202	0.161428	0.146966	0.166312	0.313278	1.408651
		47.50%	52.50%	100.00%	48.46%	51.54%	100.00%	46.91%	53.09%	100.00%	Total
	Euclid Bubblesort	0.019371	0.531754	0.551125	0.074229	2.143703	2.217932	0.147234	4.304201	4.451435	14.84321
		3.51%	96.49%	100.00%	3.35%	96.65%	100.00%	3.31%	96.69%	100.00%	
	Manhattan Quicksort	0.048478	0.020886	0.069364	0.191908	0.084287	0.276195	0.392653	0.170683	0.563336	
		69.89%	30.11%	100.00%	69.48%	30.52%	100.00%	69.70%	30.30%	100.00%	
	Manhattan Mergesort	0.04822	0.020996	0.069216	0.191624	0.084608	0.276232	0.382254	0.166384	0.548638	
		69.67%	30.33%	100.00%	69.37%	30.63%	100.00%	69.67%	30.33%	100.00%	
	Manhattan Bubblesort	0.048939	0.532164	0.581103	0.196771	2.199062	2.395833	0.383467	4.262315	4.645782	
	Mailiattaii Bubblesoit	8.42%	91.58%	100.00%	8.21%	91.79%	100.00%	8.25%	91.75%	100.00%	
			N = 200			N = 800			N = 1600		
Parallel – Sections		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total
	<b>Euclid Quicksort</b>	0.005218	0.022326	0.027544	0.019432	0.089591	0.109023	0.039463	0.178609	0.218072	0.808897
		18.94%	81.06%	100.00%	17.82%	82.18%	100.00%	18.10%	81.90%	100.00%	Total
	<b>Euclid Mergesort</b>	0.005017	0.012565	0.017582	0.02015	0.049569	0.069719	0.039265	0.097854	0.137119	0.543416
		28.53%	71.47%	100.00%	28.90%	71.10%	100.00%	28.64%	71.36%	100.00%	Total
	Euclid Bubblesort	0.005279	0.302504	0.307783	0.01984	1.206996	1.226836	0.039092	2.407322	2.446414	8.03927
		1.72%	98.28%	100.00%	1.62%	98.38%	100.00%	1.60%	98.40%	100.00%	
	Manhattan Quicksort	0.01245	0.022688	0.035138	0.050333	0.08931	0.139643	0.097206	0.182271	0.279477	
		35.43%	64.57%	100.00%	36.04%	63.96%	100.00%	34.78%	65.22%	100.00%	
	Manhattan Mergesort	0.012906	0.012428	0.025334	0.049283	0.048857	0.09814	0.097688	0.097834	0.195522	
		50.94%	49.06%	100.00%	50.22%	49.78%	100.00%	49.96%	50.04%	100.00%	
	Manhattan Bubblesort	0.012222	0.296567	0.308789	0.049104	1.201139	1.250243	0.097324	2.401881	2.499205	
		3.96%	96.04%	100.00%	3.93%	96.07%	100.00%	3.89%	96.11%	100.00%	
					O = 32, M = 10	000					
			N = 200		) – 32, IVI – 10	N = 800			N = 1600		
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total
	Euclid Quicksort  Euclid Mergesort	0.185437	0.278401	0.463838	0.742582	1.142975	1.885557	1.49807	2.263777	3.761847	15.972202
		39.98%	60.02%	100.00%	39.38%	60.62%	100.00%	39.82%	60.18%	100.00%	Total
		0.185513	0.270867	0.45638	0.745718	1.086814	1.832532	1.504401	2.174905	3.679306	15.851672
		40.65%	59.35%	100.00%	40.69%	59.31%	100.00%	40.89%	59.11%	100.00%	Total
	Euclid Bubblesort	0.184268	69.25875	69.443018	0.737184	276.673706	277.41089	1.515635	555.761849	557.277484	1815.293144
		0.27%	99.73%	100.00%	0.27%	99.73%	100.00%	0.27%	99.73%	100.00%	
Serial	Manhattan Quicksort	0.471655	0.278674	0.750329	1.932381	1.127525	3.059906	3.823178	2.227547	6.050725	
		62.86%	37.14%	100.00%	63.15%	36.85%	100.00%	63.19%	36.81%	100.00%	
	Manhattan Mergesort	0.47597	0.274112	0.750082	1.904061	1.093334	2.997395	3.903143	2.232834	6.135977	
		63.46%	36.54%	100.00%	63.52%	36.48%	100.00%	63.61%	36.39%	100.00%	
	Manhattan Bubblesort	0.471319	69.964528	70.435847	1.887251	279.456457	281.343708	3.847039	555.535158	559.382197	
		0.67%	99.33%	100.00%	0.67%	99.33%	100.00%	0.69%	99.31%	100.00%	
			N = 200			N = 800			N = 1600		
		Diet	C	Tatal	Diet	Comb	Tatal	Diet	C	Tatal	Tatal

Dist

Sort

Total

Page 1

Sort

Total

Dist

Sort

Total

Total

Dist

0.047862 0.190373 1.194485 0.379271 0.297711 0.345573 1.384858 2.390482 2.769753 9.949771 **Euclid Quicksort** 13.85% 86.15% 100.00% 13.75% 86.25% 100.00% 13.69% 86.31% 100.00% Total 0.072815 0.155163 0.227978 0.190162 0.625722 0.815884 0.388684 1.25202 1.640704 6.275755 **Euclid Mergesort** 31.94% 68.06% 100.00% 23.31% 76.69% 100.00% 23.69% 76.31% 100.00% Total 0.047736 16.933148 16.980884 0.19027 66.511185 66.701455 0.383545 142.115242 142.498787 445.880398 **Euclid Bubblesort** 0.28% 99.72% 0.29% 99.71% 100.00% 0.27% 100.00% 99.73% 100.00% Parallel - Sections 0.120505 0.297456 0.417961 0.480964 1.194215 1.675179 0.974073 2.382374 3.356447 **Manhattan Quicksort** 28.83% 71.17% 100.00% 28.71% 71.29% 100.00% 29.02% 70.98% 100.00% 0.12055 0.154432 0.274982 0.481281 0.626853 1.108134 0.966649 1.241424 2.208073 Manhattan Mergesort 43.84% 56.16% 100.00% 43.43% 56.57% 100.00% 43.78% 56.22% 100.00% 0.120661 16.675757 16.796418 0.481504 68.690477 69.171981 1.251648 132.479225 133.730873 Manhattan Bubblesort 0.72% 99.28% 100.00% 99.30% 100.00% 0.94% 99.06% 100.00% 0.70% N = 800, M = 5000 D = 5 D = 64D = 128D = 256Dist Sort Total Dist Sort Total Dist Total Dist Sort Sort 0.674948 0.515213 1.190161 1.315786 0.515559 1.831345 2.841606 0.535521 3.377127 5.132581 0.506111 **Euclid Quicksort** 56.71% 43.29% 100.00% 71.85% 28.15% 100.00% 84.14% 15.86% 100.00% 91.02% 8.98% Serial 1.976354 0.520283 2.496637 4.081035 0.512601 4.593636 8.34295 8.853846 16.495382 0.506719 0.510896 Manhattan Quicksort 79.16% 20.84% 100.00% 88.84% 11.16% 100.00% 94.23% 5.77% 100.00% 97.02% 2.98% D = 64D = 128 D = 256D = 5 Dist Sort Total Dist Sort Total Dist Sort Total Dist Sort 0.177186 0.553123 0.730309 0.351709 0.55312 0.904829 0.686863 0.550247 1.23711 1.34542 0.541005 **Euclid Quicksort** 24.26% 75.74% 100.00% 38.87% 61.13% 100.00% 55.52% 44.48% 100.00% 71.32% 28.68% Parallel - Sections 0.501356 0.551249 1.052605 1.285376 1.886324 2.097209 0.54858 4.200083 0.543786 0.600948 2.645789 Manhattan Quicksort 47.63% 52.37% 100.00% 68.14% 31.86% 100.00% 79.27% 20.73% 100.00% 88.54% 11.46%

Sheet1

**Average Speedup** 0.566134148185061 1.766365804

0.385770499577255 2.592214804

0.541612629613136 1.846338038

Sheet1

```
0.395904924098858 2.52585896
0.245624459869607 4.071255772
```

0.622942973047799 1.605283378

12 Total Total 5.638692 12.037325 1 17.002101 32.94622 1 12 Total Total Speedup 1.886425 4.758673 0.395326453 1 4.743869 10.328587 0.313498392 1

Sheet2

		N = 800, M = 5000											
		D = 64			D = 128			D = 256			D = 512		
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total
Serial	<b>Euclid Quicksort</b>	0.674948	0.515213	1.190161	1.315786	0.515559	1.831345	2.841606	0.535521	3.377127	5.132581	0.506111	5.638692
		56.71%	43.29%		71.85%	28.15%		84.14%	15.86%		91.02%	8.98%	
	Manhattan Quicksort	1.976354	0.520283	2.496637	4.081035	0.512601	4.593636	8.34295	0.510896	8.853846	16.495382	0.506719	17.002101
		79.16%	20.84%		88.84%	11.16%		94.23%	5.77%		97.02%	2.98%	
			D = 64			D = 128			D = 256			D = 512	
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total
Parallel – Sections	<b>Euclid Quicksort</b>	0.177186	0.553123	0.730309	0.351709	0.55312	0.904829	0.686863	0.550247	1.23711	1.34542	0.541005	1.886425
		24.26%	75.74%		38.87%	61.13%		55.52%	44.48%		71.32%	28.68%	
	Manhattan Quicksort	0.501356	0.551249	1.052605	1.285376	0.600948	1.886324	2.097209	0.54858	2.645789	4.200083	0.543786	4.743869
		47.63%	52.37%		68.14%	31.86%		79.27%	20.73%		88.54%	11.46%	