D	=	32,	М	=	1	0	00

			N = 200	5 52 ,		N = 800			N = 1600		
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total
		0.02133	0.023122	0.044452	0.074729	0.084901	0.15963	0.148413	0.167418	0.315831	1.428808
	Euclid Quicksort	47.98%	52.02%	100.00%	46.81%	53.19%	100.00%	46.99%	53.01%	100.00%	Total
		0.018935	0.020924	0.039859	0.078226	0.083202	0.161428	0.146966	0.166312	0.313278	1.408651
	Euclid Mergesort	47.50%	52.50%	100.00%	48.46%	51.54%	100.00%	46.91%	53.09%	100.00%	Total
		0.019371	0.531754	0.551125	0.074229	2.143703	2.217932	0.147234	4.304201	4.451435	14.84321
	Euclid Bubblesort	3.51%	96.49%	100.00%	3.35%	96.65%	100.00%	3.31%	96.69%	100.00%	14.04321
Serial		0.048478	0.020886	0.069364	0.191908	0.084287	0.276195	0.392653	0.170683	0.563336	
	Manhattan Quicksort	69.89%	30.11%	100.00%	69.48%	30.52%	100.00%	69.70%	30.30%	100.00%	
			0.020996								
	Manhattan Mergesort	0.04822 69.67%		0.069216	0.191624	0.084608	0.276232	0.382254	0.166384	0.548638	
			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	
		8.42%	91.58%	100.00%	8.21%	91.79%	100.00%	8.25%	91.75%	100.00%	
		D:-4	N = 200	T-4-1	D:-4	N = 800	T-4-1	D:-4	N = 1600	T-4-1	T-4-1
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total
Parallel – Sections	Euclid Quicksort Euclid Mergesort	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
		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		•	N = 800			N = 1600		
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total
		0.185437	0.278401	0.463838	0.742582	1.142975	1.885557	1.49807	2.263777	3.761847	15.972202
	Euclid Quicksort	39.98%	60.02%	100.00%	39.38%	60.62%	100.00%	39.82%	60.18%	100.00%	Total
	Custial Management	0.185513	0.270867	0.45638	0.745718	1.086814	1.832532	1.504401	2.174905	3.679306	15.851672
	Euclid Mergesort	40.65%	59.35%	100.00%	40.69%	59.31%	100.00%	40.89%	59.11%	100.00%	Total
		0.184268	69.25875	69.443018	0.737184	276.673706	277.41089	1.515635	555.761849	557.277484	1815.293144
	Euclid Bubblesort	0.27%	99.73%	100.00%	0.27%	99.73%	100.00%	0.27%	99.73%	100.00%	
Serial		0.471655	0.278674	0.750329	1.932381	1.127525	3.059906	3.823178	2.227547	6.050725	
	Manhattan Quicksort	62.86%	37.14%	100.00%	63.15%	36.85%	100.00%	63.19%	36.81%	100.00%	
		0.47597	0.274112	0.750082	1.904061	1.093334	2.997395	3.903143	2.232834	6.135977	
	Manhattan Mergesort	63.46%	36.54%	100.00%	63.52%	36.48%	100.00%	63.61%	36.39%	100.00%	
		0.471319	69.964528	70.435847	1.887251	279.456457	281.343708	3.847039	555.535158	559.382197	
	Manhattan Bubblesort	0.67%	99.33%	100.00%	0.67%	99.33%	100.00%	0.69%	99.31%	100.00%	
			N = 200			N = 800			N = 1600		
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Total

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		0.047862	0.297711	0.345573	0.190373	1.194485	1.384858	0.379271	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	
	Foreign Management	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	
	Euclid Bubblesort	0.047736	16.933148	16.980884	0.19027	66.511185	66.701455	0.383545	142.115242	142.498787	445.880398	
Parallel – Sections	Eucliu Bubblesoft	0.28%	99.72%	100.00%	0.29%	99.71%	100.00%	0.27%	99.73%	100.00%		
raialiei - Sections	Manhattan Quicksort	0.120505	0.297456	0.417961	0.480964	1.194215	1.675179	0.974073	2.382374	3.356447		
	maimattan Quicksort	28.83%	71.17%	100.00%	28.71%	71.29%	100.00%	29.02%	70.98%	100.00%		
	Manhattan Mergesort	0.12055	0.154432	0.274982	0.481281	0.626853	1.108134	0.966649	1.241424	2.208073		
	gooo.t	43.84%	56.16%	100.00%	43.43%	56.57%	100.00%	43.78%	56.22%	100.00%		
	Manhattan Bubblesort	0.120661	16.675757	16.796418	0.481504	68.690477	69.171981	1.251648	132.479225	133.730873		
		0.72%	99.28%	100.00%	0.70%	99.30%	100.00%	0.94%	99.06%	100.00%		
						N = 8	800, M = 5000					
			D = 64			D = 128			D = 256			D = 5
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Dist	Sort
	Euclid Quicksort	0.674948	0.515213	1.190161	1.315786	0.515559	1.831345	2.841606	0.535521	3.377127	5.132581	0.506111
Serial		56.71%	43.29%	100.00%	71.85%	28.15%	100.00%	84.14%	15.86%	100.00%	91.02%	8.98%
Schul	Manhattan Quicksort	1.976354	0.520283	2.496637	4.081035	0.512601	4.593636	8.34295	0.510896	8.853846	16.495382	0.506719
		79.16%	20.84%	100.00%	88.84%	11.16%	100.00%	94.23%	5.77%	100.00%	97.02%	2.98%
		-	D = 64		-	D = 128		.	D = 256		- · ·	D = 5
Parallel – Sections	Euclid Quicksort Manhattan Quicksort	Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	Dist	Sort
		0.177186 24.26%	0.553123 75.74%	0.730309 100.00%	0.351709	0.55312 61.13%	0.904829 100.00%	0.686863 55.52%	0.550247 44.48%	1.23711	1.34542 71.32%	0.541005 28.68%
		0.501356	0.551249	1.052605	38.87% 1.285376	0.600948	1.886324	2.097209	0.54858	100.00% 2.645789	4.200083	0.543786
		47.63%	52.37%	100.00%	68.14%	31.86%	1.000324	79.27%	20.73%	100.00%	88.54%	11.46%
		11.0070	02.0170	100.0070	00.1170	01.0070	100.0070	10.2170	20.1070	100.0070	00.0170	11.1070
				ı	D = 128, M = 50	00						
			N = 200	•	5 – 120, IVI – 30	N = 800			N = 1600			
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total		
	- "	0.340829	0.127135	0.467964	1.310158	0.509183	1.819341	2.655198	1.021084	3.676282		5.963587
Carrial	Euclid Quicksort	72.83%	27.17%		72.01%	27.99%		72.23%	27.77%			
Serial	Euclid Mergesort	0.33894	0.128812	0.467752	1.335546	0.513219	1.848765	2.716285	1.008583	3.724868		6.041385
	Eucliu Weigesoft	72.46%	27.54%		72.24%	27.76%		72.92%	27.08%			
			N = 200			N = 800			N = 1600			
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total		
	Euclid Quicksort	0.097136	0.136048	0.233184	0.344492	0.545125	0.889617	0.685049	1.092301	1.77735		2.900151
Parallel - Sections		41.66%	58.34%	0.400044	38.72%	61.28%	0.004.04.4	38.54%	61.46%	4 04 04 44		0.400000
	Euclid Mergesort	0.089513	0.072728	0.162241	0.34213	0.289784	0.631914	0.71208	0.600064	1.312144		2.106299
		55.17%	44.83%		54.14%	45.86%		54.27%	45.73%			
		Dist	N = 200 Sort	Total	Dist	N = 800 Sort	Total	Dist	N = 1600 Sort	Total		
		0.085774	0.054641	0.140415	0.341588	0.218592	0.56018	0.694535	0.440426	1.134961		1.835556
	Euclid Quicksort	61.09%	38.91%	0.170710	60.98%	39.02%	3.30010	61.19%	38.81%	1.10-501		1.000000
Parallel – Task		0.089108	0.072744	0.161852	0.343702	0.292879	0.636581	0.697322	0.583481	1.280803		2.079236
	Euclid Mergesort	55.06%	44.94%	3.232002	53.99%	46.01%	3.333001	54.44%	45.56%	2.20000		

Average Speedup

0.566134148185061 1.766365804

0.385770499577255 2.592214804

0.541612629613136 1.846338038

0.622942973047799	1.605283378
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0.395904924098858 2.52585896

0.245624459869607 4.071255772

12			
	Total	Total	
	5.638692 1	12.037325	
	17.002101 1	32.94622	2.737005107
12			
	Total	Total	Speedup
	1.886425 1	4.758673	0.395326453 2.529554983
	4.743869 1	10.328587	0.313498392 3.189809022

0.486309833	2.056302241
0.348645054	2.868246626
0.30779395	3.248926756
0.344165452	2.905579261

D = 128, M = 5000

		N = 200				N = 800		N = 1600			
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	
	Euclid Quicksort	0.340829	0.127135	0.467964	1.310158	0.509183	1.819341	2.655198	1.021084	3.676282	
Serial		72.83%	27.17%		72.01%	27.99%		72.23%	27.77%		
	Euclid Mergesort	0.33894	0.128812	0.467752	1.335546	0.513219	1.848765	2.716285	1.008583	3.724868	
		72.46%	27.54%		72.24%	27.76%		72.92%	27.08%		
		N = 200			N = 800			N = 1600			
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	
	Euclid Quicksort	0.097136	0.136048	0.233184	0.344492	0.545125	0.889617	0.685049	1.092301	1.77735	
Parallel – Sections		41.66%	58.34%		38.72%	61.28%		38.54%	61.46%		
Parallel - Sections	Euclid Mergesort	0.089513	0.072728	0.162241	0.34213	0.289784	0.631914	0.71208	0.600064	1.312144	
		55.17%	44.83%		54.14%	45.86%		54.27%	45.73%		
		N = 200			N = 800			N = 1600			
		Dist	Sort	Total	Dist	Sort	Total	Dist	Sort	Total	
	Euclid Quicksort	0.085774	0.054641	0.140415	0.341588	0.218592	0.56018	0.694535	0.440426	1.134961	
Parallel – Task		61.09%	38.91%		60.98%	39.02%		61.19%	38.81%		
	Euclid Mergesort	0.089108	0.072744	0.161852	0.343702	0.292879	0.636581	0.697322	0.583481	1.280803	
		55.06%	44.94%		53.99%	46.01%		54.44%	45.56%		