

Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
1	3.48515	3.452691	3.186328	3.158562	0.29253	0.2878156667	1	1
	3.417512		3.133009		0.278249			
	3.455411		3.156349		0.292668			
4	0.866578	0.873296	0.806974	0.8005033333	0.052789	0.064856	3.953631987	0.9884079968
	0.876225		0.794358		0.074566			
	0.877085		0.800178		0.067213			
8	0.461058	0.4583223333	0.415863	0.4146446667	0.037058	0.038409	7.5333248	0.9416656
	0.458196		0.410728		0.039798			
	0.455713		0.417343		0.038371			
12	0.320177	0.3247543333	0.278637	0.284245	0.033868	0.03259233333	10.63170109	0.8859750909
	0.336113		0.293537		0.034299			
	0.317973		0.280561		0.02961			
16	0.253748	0.2501896667	0.215281	0.2134296667	0.029423	0.02743233333	13.80029418	0.8625183861
	0.244575		0.21079		0.024875			
	0.252246		0.214218		0.027999			
20	0.20074	0.19846	0.169035	0.1676583333	0.021879	0.02061833333	17.3974151	0.8698707548
	0.199913		0.167865		0.021111			
	0.194727		0.166075		0.018865			

Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
1	14.636067	14.69657267	13.984754	14.04557133	0.644879	0.64465	1	1
	14.90285		14.252162		0.644343			
	14.550801		13.899798		0.644728			
4	3.906958	3.984103667	3.736363	3.814786667	0.163605	0.16221	3.688802776	0.9222006941
	4.017036		3.850449		0.159168			
	4.028317		3.857548		0.163857			
8	1.979004	1.979737667	1.887057	1.896434667	0.084128	0.08491366667	7.423494998	0.9279368748
	1.984496		1.894904		0.082242			
	1.975713		1.907343		0.088371			
12	1.349432	1.340422667	1.280848	1.274192	0.067589	0.06053366667	10.9641332	0.913677767
	1.329218		1.263956		0.056827			
	1.342618		1.277772		0.057185			
16	0.99036	1.011012333	0.938504	0.9589296667	0.042969	0.04314566667	14.53649197	0.9085307482
	1.030016		0.978535		0.04237			
	1.012661		0.95975		0.044098			
20	0.836986	0.8322896667	0.790959	0.7868203333	0.034893	0.03509533333	17.65800208	0.8829001041
	0.81619		0.770606		0.034931			
	0.843693		0.798896		0.035462			

Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
1	27.31617	27.529456	26.186108	26.398908	1.123745	1.124123333	1	1
	27.626146		26.484011		1.135583			
	27.646052		26.526605		1.113042			
4	7.327493	7.251848	7.032295	6.960614667	0.288063	0.2846103333	3.796198707	0.9490496767
	7.241118		6.952526		0.282081			
	7.186933		6.897023		0.283687			
8	3.668236	3.701249667	3.513728	3.548503333	0.146428	0.1447713333	7.437881386	0.9297351732
	3.711104		3.559539		0.143995			
	3.724409		3.572243		0.143891			
12	2.482481	2.474371333	2.376352	2.367189	0.097363	0.09832833333	11.12583856	0.9271532136
	2.425853		2.319631		0.097832			
	2.51478		2.405584		0.09979			
16	1.882804	1.880746333	1.799956	1.798057667	0.074035	0.073903	14.63751677	0.9148447983
	1.835944		1.754108		0.073445			
	1.923491		1.840109		0.074229			
20	1.540836	1.532935333	1.470743	1.462909	0.060173	0.06004433333	17.95865449	0.8979327243
	1.543841		1.473561		0.060143			
	1.514129		1.444423		0.059817			

Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
1	52.397865	52.68849067	50.380045	50.67164833	2.011442	2.010416667	1	1
	52.60385		50.589646		2.007614			
	53.063757		51.045254		2.012194			
4	13.738327	13.88945667	13.223569	13.374825	0.507751	0.5080143333	3.793416253	0.9483540633
	14.224576		13.709296		0.508989			
	13.705467		13.19161		0.507303			
8	7.184716	7.232404667	6.915671	6.954961333	0.261494	0.2590376667	7.285058441	0.9106323051
	7.306785		7.04187		0.257248			
	7.205713		6.907343		0.258371			
12	4.805651	4.798564	4.621144	4.611627667	0.175729	0.178361	10.98005375	0.9150044796
	4.809493		4.620067		0.181174			
	4.780548		4.593672		0.17818			
16	3.650278	3.666174667	3.509115	3.513603667	0.132355	0.1436626667	14.37151676	0.8982197975
	3.61464		3.469264		0.135827			
	3.733606		3.562432		0.162806			
20	2.945619	2.938806667	2.828426	2.819595333	0.107041	0.108602	17.92853244	0.8964266221
	2.94587		2.824233		0.111444			
	2.924931		2.806127		0.107321			

Sequential time	Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
3.452691	24	0.185711	0.1846933333	0.147389	0.150443	0.018373	0.01935	18.69418315	1
		0.174033		0.14068		0.020052			
		0.194336		0.16326		0.019625			
	28	0.155953	0.165928	0.120192	0.1198976667	0.014701	0.015929	20.80836869	0.7431560246
		0.16945		0.12108		0.018076			
		0.172381		0.118421		0.01501			
	32	0.140277	0.1605966667	0.106374	0.1219906667	0.021019	0.01756366667	21.49914486	0.6718482767
		0.175142		0.13065		0.013023			
		0.166371		0.128948		0.018649			
	36	0.165612	0.1507946667	0.104661	0.09871566667	0.040139	0.02527766667	22.8966387	0.6360177416
		0.144202		0.096046		0.017573			
		0.14257		0.09544		0.018121			
	40	0.137981	0.1442276667	0.086404	0.088441	0.022086	0.02498	23.93917256	0.598479314
		0.156297		0.094316		0.033639			
		0.138405		0.084603		0.019215			

Sequential time	Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
14.69657267	24	0.714005	0.7205503333	0.646366	0.6501053333	0.037227	0.037335	20.39631652	1
		0.729514		0.653279		0.037288			
		0.718132		0.650671		0.03749			
	28	0.614234	0.6185826667	0.558818	0.559136	0.029055	0.02957133333	23.75846182	0.8485164937
		0.633558		0.564852		0.029495			
		0.607956		0.553738		0.030164			
	32	0.550634	0.5696903333	0.495507	0.5057566667	0.029631	0.028865	25.79747594	0.8061711233
		0.579983		0.496307		0.028391			
		0.578454		0.525456		0.028573			
	36	0.533627	0.5424966667	0.451075	0.4374423333	0.031255	0.07068166667	27.09062299	0.7525173053
		0.491876		0.436273		0.028894			
		0.601987		0.424979		0.151896			
	40	0.466766	0.490739	0.39291	0.3963466667	0.034546	0.06258333333	29.94783922	0.7486959804
		0.522303		0.398858		0.092693			
		0.483148		0.397272		0.060511			

Sequential time	Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
27.529456	24	1.296842	1.320854667	1.208312	1.234645333	0.06155	0.05986833333	20.84215372	1
		1.318106		1.229094		0.05951			
		1.347616		1.26653		0.058545			
	28	1.126621	1.129251667	1.042212	1.051416667	0.048953	0.04888233333	24.3784949	0.8706605322
		1.130313		1.053348		0.04915			
		1.130821		1.05869		0.048544			
	32	1.012903	1.001307333	0.937095	0.9300576667	0.067134	0.05822533333	27.49351281	0.8591722754
		0.989459		0.917932		0.057498			
		1.00156		0.935146		0.050044			
	36	0.888869	0.934515	0.812816	0.8276993333	0.048745	0.077783	29.45854909	0.8182930302
		0.899245		0.82898		0.048751			
		1.015431		0.841302		0.135853			
	40	0.801248	0.8345116667	0.728057	0.7416926667	0.043243	0.05708633333	32.98870118	0.8247175294
		0.858624		0.759286		0.058466			
		0.843663		0.737735		0.06955			

Sequential time	Rank	Total Time		Distance Calculation Time		Centroid Update Time		Parallel Speedup	Parallel Efficiency
52.68849067	24	2.498368	2.461894667	2.370815	2.334853	0.105575	0.103077	21.40160234	1
		2.443658		2.316872		0.101828			
		2.443658		2.316872		0.101828			
	28	2.134827	2.158633667	2.014941	2.035982333	0.089644	0.09482266667	24.40825948	0.871723553
		2.170537		2.046503		0.097412			
		2.170537		2.046503		0.097412			
	32	1.935036	1.9074	1.830387	1.807197	0.084525	0.08397033333	27.62319947	0.8632249834
		1.893582		1.795602		0.083693			
		1.893582		1.795602		0.083693			
	36	1.758567	1.743406333	1.599985	1.580649667	0.135804	0.1366813333	30.2215781	0.8394882806
		1.735826		1.570982		0.13712			
		1.735826		1.570982		0.13712			
	40	1.542761	1.553463667	1.42198	1.424306667	0.086958	0.1026633333	33.91678338	0.8479195844
		1.558815		1.42547		0.110516			
		1.558815		1.42547		0.110516			