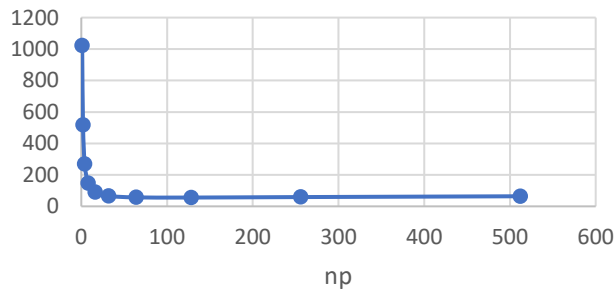


## Red: Hipercubo

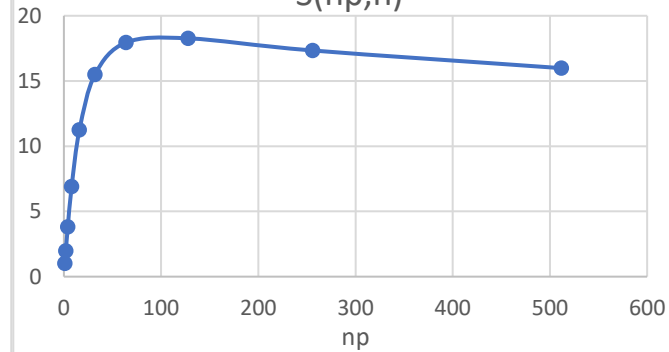
Escalabilidad Fuerte  
(comunicación):

kp	kn	np	n	t(1,n)	t(np,n)	tc(1,n)	tc(np,n)	tT(1,n)	tT(np,n)	S(np,n)	E(np,n)	C(np,n)	Rc→c
0	10	1	1024	1023	1023	0	0	1023	1023	1	1	1023	
1	10	2	1024	1023	512	0	6	1023	518	1.97490347	0.98745174	1036	85.3333333
2	10	4	1024	1023	257	0	12	1023	269	3.80297398	0.95074349	1076	21.4166667
3	10	8	1024	1023	130	0	18	1023	148	6.91216216	0.86402027	1184	7.22222222
4	10	16	1024	1023	67	0	24	1023	91	11.2417582	0.70260989	1456	2.79166667
5	10	32	1024	1023	36	0	30	1023	66	15.5	0.484375	2112	1.2
6	10	64	1024	1023	21	0	36	1023	57	17.9473684	0.28042763	3648	0.58333333
7	10	128	1024	1023	14	0	42	1023	56	18.2678571	0.14271763	7168	0.33333333
8	10	256	1024	1023	11	0	48	1023	59	17.3389831	0.0677304	15104	0.22916667
9	10	512	1024	1023	10	0	54	1023	64	15.984375	0.03121948	32768	0.18518519

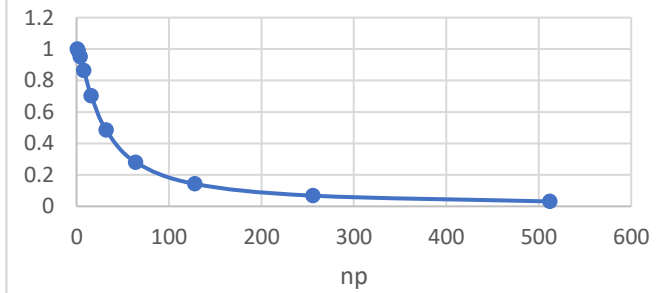
tT(np,n)



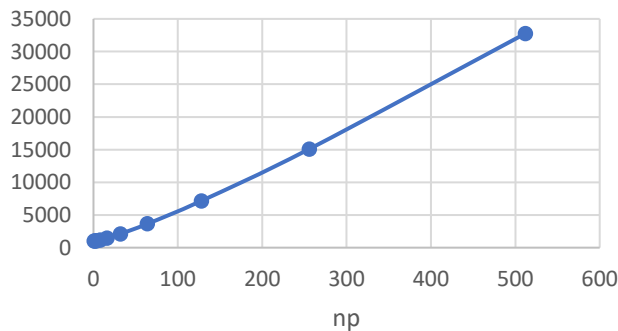
S(np,n)



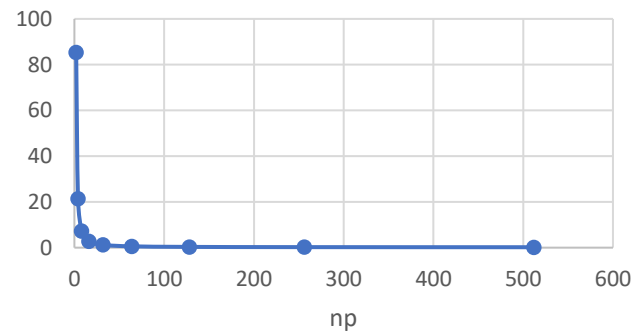
E(np,n)



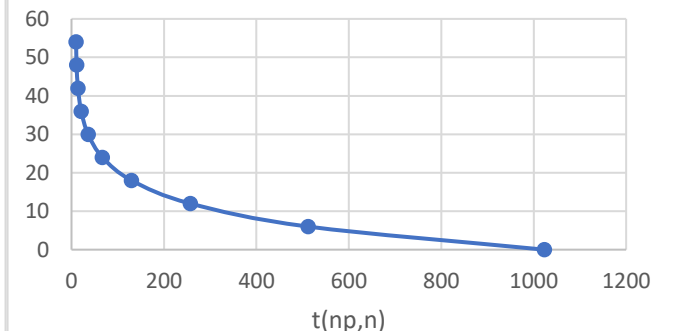
C(np,n)



Rc→c

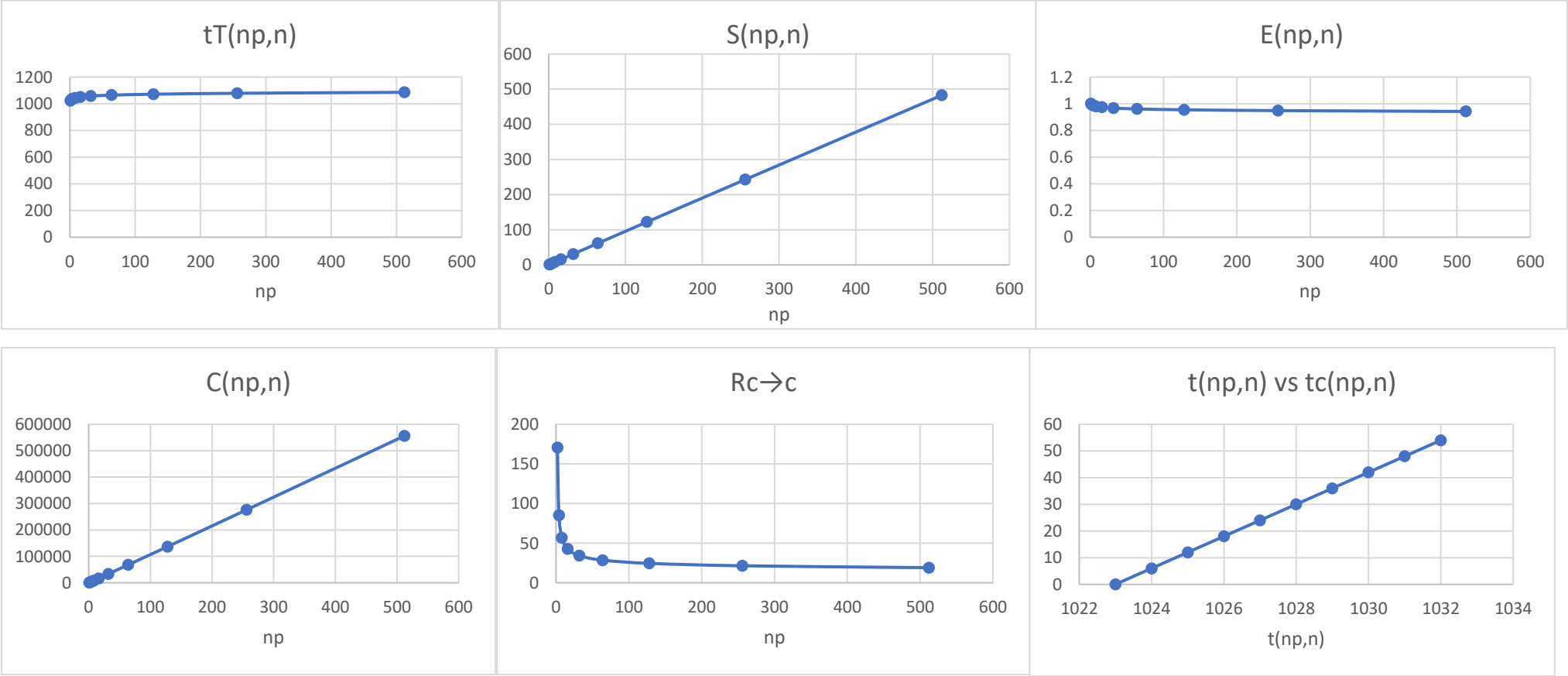


t(np,n) vs tc(np,n)



Escalabilidad Débil  
(comunicación):

kp	kn	np	n	t(1,n)	t(np,n)	tc(1,n)	tc(np,n)	tT(1,n)	tT(np,n)	S(np,n)	E(np,n)	C(np,n)	Rc→c
0	10	1	1024	1023	1023	0	0	1023	1023	1	1	1023	
1	10	2	2048	2047	1024	0	6	2047	1030	1.98737864	0.99368932	2060	170.666667
2	10	4	4096	4095	1025	0	12	4095	1037	3.94889103	0.98722276	4148	85.4166667
3	10	8	8192	8191	1026	0	18	8191	1044	7.84578544	0.98072318	8352	57
4	10	16	16384	16383	1027	0	24	16383	1051	15.5880114	0.97425071	16816	42.7916667
5	10	32	32768	32767	1028	0	30	32767	1058	30.9706994	0.96783436	33856	34.2666667
6	10	64	65536	65535	1029	0	36	65535	1065	61.5352113	0.96148768	68160	28.5833333
7	10	128	131072	131071	1030	0	42	131071	1072	122.267724	0.95521659	137216	24.5238095
8	10	256	262144	262143	1031	0	48	262143	1079	242.949954	0.94902326	276224	21.4791667
9	10	512	524288	524287	1032	0	54	524287	1086	482.768877	0.94290796	556032	19.1111111

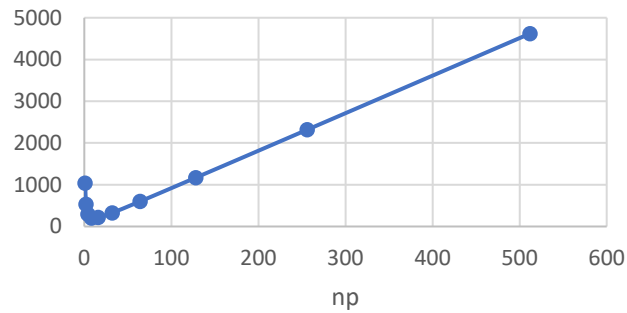


## Red: Bus

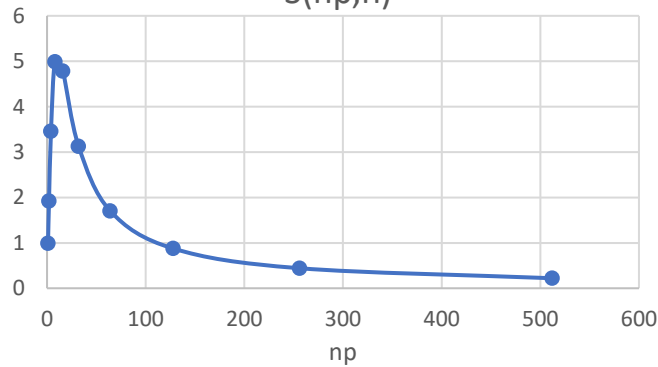
Escalabilidad Fuerte  
(comunicación):

kp	kn	np	n	t(1,n)	t(np,n)	tc(1,n)	tc(np,n)	tT(1,n)	tT(np,n)	S(np,n)	E(np,n)	C(np,n)	Rc→c
0	10	1	1024	1023	1023	0	12	1023	1035	0.9884058	0.9884058	1035	
1	10	2	1024	1023	512	0	21	1023	533	1.91932458	0.95966229	1066	24.3809524
2	10	4	1024	1023	257	0	39	1023	296	3.45608108	0.86402027	1184	6.58974359
3	10	8	1024	1023	130	0	75	1023	205	4.9902439	0.62378049	1640	1.73333333
4	10	16	1024	1023	67	0	147	1023	214	4.78037383	0.29877336	3424	0.45578231
5	10	32	1024	1023	36	0	291	1023	327	3.12844037	0.09776376	10464	0.12371134
6	10	64	1024	1023	21	0	579	1023	600	1.705	0.02664063	38400	0.03626943
7	10	128	1024	1023	14	0	1155	1023	1169	0.87510693	0.00683677	149632	0.01212121
8	10	256	1024	1023	11	0	2307	1023	2318	0.44132873	0.00172394	593408	0.0047681
9	10	512	1024	1023	10	0	4611	1023	4621	0.22138065	0.00043238	2365952	0.00216873

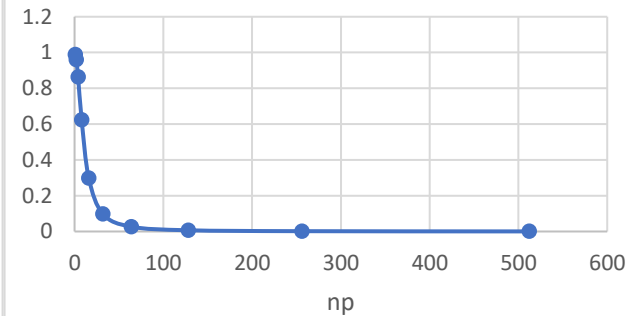
tT(np,n)



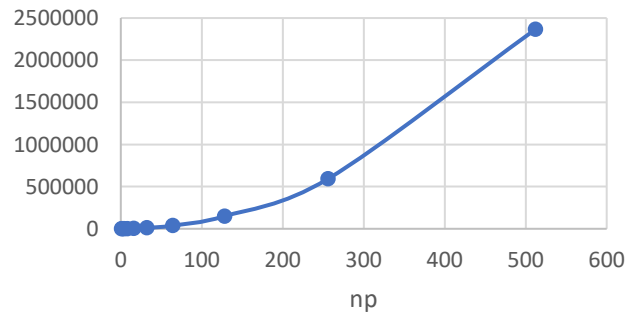
S(np,n)



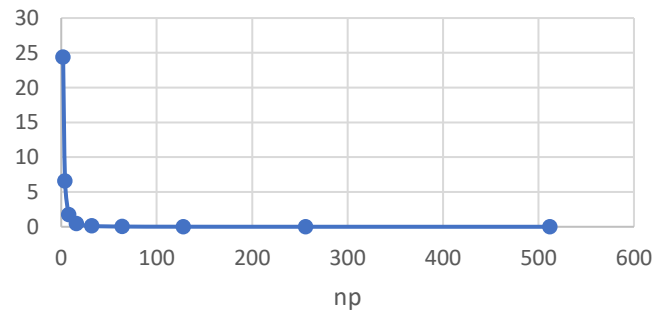
E(np,n)



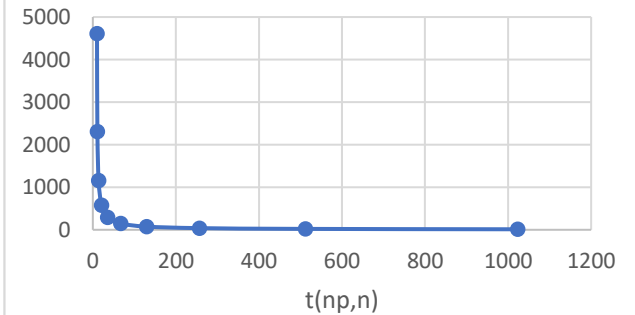
C(np,n)



Rc→c



t(np,n) vs tc(np,n)



Escalabilidad Débil  
(comunicación):

kp	kn	np	n	t(1,n)	t(np,n)	tc(1,n)	tc(np,n)	tT(1,n)	tT(np,n)	S(np,n)	E(np,n)	C(np,n)	Rc→c
0	10	1	1024	1023	1023	0	12	1023	1035	0.9884058	0.9884058	1035	
1	10	2	2048	2047	1024	0	21	2047	1045	1.95885167	0.97942584	2090	48.7619048
2	10	4	4096	4095	1025	0	39	4095	1064	3.84868421	0.96217105	4256	26.2820513
3	10	8	8192	8191	1026	0	75	8191	1101	7.43960036	0.92995005	8808	13.68
4	10	16	16384	16383	1027	0	147	16383	1174	13.9548552	0.87217845	18784	6.98639456
5	10	32	32768	32767	1028	0	291	32767	1319	24.8423048	0.77632202	42208	3.53264605
6	10	64	65536	65535	1029	0	579	65535	1608	40.755597	0.6368062	102912	1.77720207
7	10	128	131072	131071	1030	0	1155	131071	2185	59.9867277	0.46864631	279680	0.89177489
8	10	256	262144	262143	1031	0	2307	262143	3338	78.5329539	0.30676935	854528	0.44690074
9	10	512	524288	524287	1032	0	4611	524287	5643	92.9092681	0.18146341	2889216	0.22381262

