

Power8

Power9

Power10

**Net increase
P8 > P10**

**Net increase
P9 > P10**

Model	Tier	Sockets	Cores	GHz	Total CPW	CPW/Core	Model	Tier	Sockets	Cores	GHz	Total CPW	CPW/Core	Model	Tier	Sockets	Cores	GHz	Total CPW	CPW/Core	CPW total	CPW/Core	% Increase	CPW total	CPW/Core	% Increase
S814	P05	1	4	3.02	37,440	9,360	S914	P05	1	4	2.3-3.8	52,500	13,125	S1014	P05	1	4	3.0-3.9	106,300	26,575	69k	17.2k	183.9%	54k	13.5k	102.5%
S814	P10	1	6	3.02	56,400	9,400	S914	P10	1	6	2.3-3.8	78,500	13,083	No comparable make/model						No comparable			No comparable			
S814	P10	1	8	3.72	81,050	10,131	S914	P10	1	8	2.8-3.8	122,500	15,313	S1014	P10	1	8	3.0-3.9	205,300	25,663	124k	15.5k	153.3%	83k	10.4k	67.6%
S822	P10	1	8	4.15	102,400	12,800	S922	P10	1	8	3.4-3.9	136,000	17,000	No comparable make/model						No comparable			No comparable			
S822	P10	1	10	3.4	106,175	10,618	S922	P10	1	10	2.9-3.8	150,000	15,000	No comparable make/model						No comparable			No comparable			
S822	P10	2	12	3.89	135,660	11,305	No comparable make/model						S1022	P10	1	12	2.9-4.0	318,900	26,575	183k	15.3k	135.1%	No comparable			
S822	P10	2	16	4.15	204,800	12,800	S922	P10	2	16	3.4-3.9	272,000	17,000	S1022	P10	1	16	2.5-4.0	425,200	26,575	220k	13.8k	107.6%	153k	9.6k	56.3%
S822	P10	2	20	3.4	212,350	10,618	S922	P10	2	20	2.9-3.8	300,000	15,000	S1022	P10	1	20	2.45-3.9	523,500	26,175	311k	15.6k	146.5%	224k	11.2k	74.5%
No comparable make/model						No comparable make/model						S1022	P10	2	24	2.9-4.0	637,800	26,575	No comparable			No comparable				
No comparable make/model						No comparable make/model						S1022	P10	2	32	2.75-4.0	850,400	26,575	No comparable			No comparable				
No comparable make/model						No comparable make/model						S1022	P10	2	40	2.45-3.9	1,047,000	26,175	No comparable			No comparable				
S824	P20	2	16	4.15	268,500	16,781	S924	P20	2	16	3.8-4.0	268,500	16,781	No comparable make/model						No comparable			No comparable			
S824	P20	2	24	3.52	370,700	15,446	S924	P20	2	24	3.4-3.9	370,700	15,446	S1024	P20	2	24	3.4-4.0	585,100	24,379	367k	15.3k	167.8%	214k	8.9k	57.8%
No comparable make/model						No comparable make/model						S1024	P20	2	32	3.1-4.0	725,000	22,656	No comparable			No comparable				
No comparable make/model						No comparable make/model						S1024	P20	2	48	2.75-3.9	947,500	19,740	No comparable			No comparable				

Performance data pulled from "IBM Power Systems Performance Report" released on 7/12/2022.

Note Power S822, S922, and S1022 running IBM i: IBM i support is provided at a price-attractive P10 software tier even though the S822, S922, & S1022 have two sockets. However, there are limitations to the maximum size of the partition, and all I/O must be virtualized through WIOS. Up to four cores (real or virtual) per IBM i partition are supported. Multiple IBM i partitions can be created and run concurrently, and each individual partition can have up to four cores.