



IBM Power CPW performance comparison

ScaleOut Models: Power9 | Power10 | Power11

Power9							Power10							Power11							Net increase P9>P11			Net increase P10>P11		
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
S914	P05	1	4	2.3-3.8	52,500	13,125	S1014	P05	1	4	3.0-3.9	106,300	26,575	No comparable make/model							No comparable			No comparable		
S914	P10	1	6	2.3-3.8	78,500	13,083	No comparable make/model							No comparable make/model							No comparable			No comparable		
S914	P10	1	8	2.8-3.8	122,500	15,313	S1014	P10	1	8	3.0-3.9	205,300	25,663	No comparable make/model							No comparable			No comparable		
No comparable make/model							S1022s	P10	2	4	3.0-3.9	198,200	24,775	S1122	P10	2	4	3.6-4.0	236,400	29,550	No comparable			5k	4.8k	19.3%
S922	P10	2	8	3.4-3.9	272,000	17,000	S1022s	P10	2	8	3.0-3.9	425,200	26,575	No comparable make/model							No comparable			No comparable		
S922	P10	2	10	2.9-3.8	300,000	15,000	S1022	P10	2	10	2.45-2.9	523,500	26,175	S1122	P20	2	10	3.05-4.0	622,000	31,100	16k	16.1k	107.3%	5k	4.9k	18.8%
S922	P10	2	12	2.8-3.8	360,000	15,000	S1022	P10	2	12	2.9-4.0	637,800	26,575	No comparable make/model							No comparable			No comparable		
No comparable make/model							S1022	P10	2	16	2.75-4.0	850,400	26,575	S1122	P20	2	16	3.0-4.2	995,200	31,100	No comparable			5k	4.5k	17.0%
No comparable make/model							S1022	P20	2	20	2.45-3.9	1,047,000	26,175	No comparable make/model							No comparable			No comparable		
No comparable make/model							No comparable make/model							S1122	P20	2	24	2.65-4.15	1,492,800	31,100	No comparable			No comparable		
No comparable make/model							No comparable make/model							S1122	P30	2	30	2.4-3.95	1,866,000	31,100	No comparable			No comparable		
S924	P20	2	8	3.8-4.0	268,500	16,781	No comparable make/model							No comparable make/model							No comparable			No comparable		
S924	P20	2	10	3.5-3.9	318,000	15,900	No comparable make/model							No comparable make/model							No comparable			No comparable		
S924	P20	2	11	3.45-3.9	350,000	15,909	No comparable make/model							No comparable make/model							No comparable			No comparable		
S924	P20	2	12	3.4-3.9	370,700	15,446	S1024	P20	2	12	3.4-4.0	585,100	24,379	No comparable make/model							No comparable			No comparable		
No comparable make/model							S1024	P30	2	16	3.1-4.0	725,000	22,656	S1124	P20	2	16	3.4-4.2	823,000	25,719	No comparable			3k	3.1k	13.5%
No comparable make/model							S1024	P20	2	24	2.75-3.9	947,500	19,740	S1124	P20	2	24	3.05-4.15	1,118,500	23,302	No comparable			4k	3.6k	18.0%
No comparable make/model							No comparable make/model							S1124	P30	2	30	2.8-3.95	1,345,900	22,432	No comparable			No comparable		