

# IBM POWER SYSTEM CPW PERFORMANCE DATA: POWER8 vs. POWER9 ScaleOut Models

Data Comparison done by @Richie\_Palma

Description		POWER8					POWER9					Net Increase		
Model	Cores	Model	Cores	GHz	CPW	CPW/ Core	Model	Cores	GHz	CPW	CPW/ Core	CPW Total	CPW/ Core	% Increase
S_14	4	S814	4	3.02	37,440	9,360	S914	4	2.3 – 3.8	52,500	13,125	15,060	3,765	40.2%
S_14	6	S814	6	3.02	56,400	9,400	S914	6	2.3 – 3.8	78,500	13,083	22,100	3,683	39.2%
S_14	8	S814	8	3.72	81,050	10,131	S914	8	2.8 – 3.8	122,500	15,313	41,450	5,181	51.1%
S_22	4	S822	4	4.15	49,960	12,490	S922	4	3.4 – 3.9	68,000	17,000	18,040	4,510	36.1%
S_22	4	S822	4	3.42	42,470	10,618	S922	4	2.9 – 3.8	60,000	15,000	17,530	4,383	41.3%
S_24	6	S824	6	3.89	68,250	11,375	<i>No Comparable Make/Model</i>					<i>No Comparable Make/Model</i>		
S_24	8	S824	8	4.15	89,580	11,198	S924	8	3.8 – 4.0	145,500	18,188	55,920	6,990	62.4%
S_24	10	<i>No Comparable Make/Model</i>					S924	10	3.5 – 3.9	174,500	17,450	<i>No Comparable Make/Model</i>		
S_24	12	S824	12	3.89	123,240	10,270	<i>No Comparable Make/Model</i>					<i>No Comparable Make/Model</i>		
S_24	16	S824	16	4.15	164,470	10,279	S924	16	3.8 – 4.0	268,500	16,781	104,030	6,502	63.3%
S_24	20	<i>No Comparable Make/Model</i>					S924	20	3.5 – 3.9	318,000	15,900	<i>No Comparable Make/Model</i>		
S_24	24	S824	24	3.52	218,510	9,105	S924	24	3.4 – 3.9	370,700	15,446	152,190	6,341	69.6%

Performance data pulled from "IBM Power Systems Performance Report" released on 2/27/2018.

[https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=PM&subtype=RG&appname=STGE\\_PO\\_PO\\_USEN&htmlfid=POO03017USEN&attachment=POO03017USEN.PDF](https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=PM&subtype=RG&appname=STGE_PO_PO_USEN&htmlfid=POO03017USEN&attachment=POO03017USEN.PDF)

Please let me know if you have any questions about the above data or if you would like some assistance sizing your upgrade to POWER9. Do not hesitate to reach out as I would be happy to help in anyway I can.

Richie Palma (@Richie\_Palma)



**Richie Palma**

Technology Solution Consultant  
1345 Monroe NW, Suite 309  
Grand Rapids, MI 49315  
Office: (616) 451-2500  
Cell: (616) 581-5542  
Email: rpalma@arbsol.com

