

Transform health. Improve outcomes. Control costs.

IBM Power Systems put data to work in healthcare

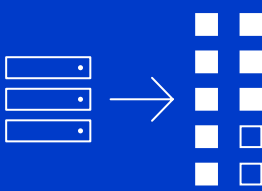


Understanding and using data in healthcare is ushering in a new era. Personalized medicine, increased sophistication in research techniques, diagnostic tests and medical equipment are driving a need for IT infrastructure with the performance, security and agility to respond to shifting business needs.

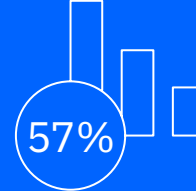
IBM® Power Systems™ with IBM AIX® or Linux on Power offer the following benefits:



Helped Zato Health accelerate discoveries from days to minutes¹



Support 8 of the top 10 healthcare companies²



Reduce solution cost by up to 57%³



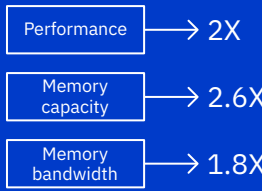
Deliver the most reliable servers for the 10th straight year⁴

CipherHealth migrated to an on-premises Power Systems solution to tackle multiple business challenges and ensure optimum healthcare services. The move allowed them to reduce extract, transform, load (ETL) times 88%⁵.


88%
ETL time 



Ranked as an industry leader for enterprise servers⁶




Provide exceptional performance versus compared x86 processors⁷



Save 50% over 3–5 years by moving from POWER7 to POWER9⁸

Prices used are current as of 9/12/2018



Protect your environment –IBM PowerVM® has no documented exposures⁹

IBM Power Systems provides the infrastructure foundation for a future-looking organization that is ready to meet today's business challenges and tomorrow's advancements. You can effectively run your mission-critical requirements alongside the modern, data-intensive workloads that dominate the healthcare industry.

IBM POWER9™ helps give you the reliability you've come to rely upon from IBM Power Systems, the security you need in today's high-risk environment, and the innovation to propel your business into the future. POWER9 also connects you to IBM Watson®, enabling you to take advantage of AI tools and capabilities to help you ensure optimal quality of patient care.

Engage with IBM in the Partner Pavilion. Learn more at ibm.com/power.



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¹ “Zato Health and POWER8 - Revolutionizing Big Data in Healthcare.” Video. <http://ibm.biz/Bdjsw7>

² Based on Fortune 500 2018 List. <http://fortune.com/fortune500/list/>

³ Solution cost is based on a comparison of IBM Power L922(20-core, 512GB) versus Intel Xeon SP based 2-socket server (48-core, 512GB), using a solution cost for 3 nodes (Server + RHEL OS + Virtualization + IBM Db2® at USD 12,800 per core). Db2 Warehouse pricing based upon USD regional perpetual license costs where certain discounts can apply.

⁴ ITIC 2017-2018 Global Server Hardware, Server OS Reliability Survey - <https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=23015323USEN&>

⁵ CipherHealth Bucking the cloud trend to improve performance and reduce costs: <https://www.ibm.com/case-studies/cipherhealth>

⁶ IDC 1Q18 Quarterly Server Tracker Data. https://www.idc.com/tracker/showproductinfo.jsp?prod_id=7. IBM Systems was #1 in combined 16+ socket large system, standard rack-optimized and tower servers during 2017, with an aggregate revenue share of 82.1 percent. IBM Power Systems was #1 in combined 8 socket large system, standard rack-optimized and tower servers during 2017, with an aggregate revenue share of 34.4 percent.

⁷ 2X performance per core based on IBM internal measurements as of 2/28/18 on various system configuration and workload environments, including (1) Enterprise Database (2.22X per core): 20c L922 (2x10-core/2.9 GHz/256 GB memory): 1,039,365 Ops/sec versus 2-socket Intel Xeon Skylake Gold 6148 (2x20-core/2.4 GHz/256 GB memory): 932,273 Ops/sec. (2) Db2 Warehouse (2.43X per core): 20c S922 (2x10-core/2.9 GHz/512 GB memory): 3242 QpH versus 2-socket Intel Xeon Skylake Platinum 8168 (2x24-core/2.7 GHz/512 GB memory): 3203 QpH. (3) DayTrader 7 (3.19X per core): 24c S924 (2x12-core/3.4 GHz/512 GB memory): 32221.4 tps versus 2-socket Intel Xeon Skylake Platinum 8180 (2x28-core/2.5 GHz/512 GB memory): 23497.4 tps.

2.6X memory capacity based on 4TB per socket for POWER9 and 1.5TB per socket for x86 Scalable Platform Intel product brief: <https://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/xeon-scalable-platformbriefpdf?asset=14606>

1.8X bandwidth based on 230 GB/sec per socket for POWER9 and 128GB/sec per socket for x86 Scalable Platform Intel product brief:

<https://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/xeon-scalable-platformbriefpdf?asset=14606>

⁸ Based upon List Price comparison of the cost over three years of purchasing Power Systems Hardware, IBM Maintenance Services (24x7, same day onsite), IBM AIX Enterprise Edition and PowerVM Software Subscription & Support to maintain a Power 770.

⁹ National Vulnerability Database, <http://nvd.nist.gov/home.cfm>, July 2018.