

Seven Wonders of the HPC World

How High Performance Computing (HPC) is making great ideas greater, bringing out their boundless potential and driving innovation forward.

HPC is Reshaping Tomorrow

by Powering Remarkable Discoveries Today

Many of today's advancements are being driven by HPC technology from Dell Technologies and AMD. The resulting research-based discoveries are profound and significantly accelerated by HPC to help reshape a better tomorrow.

Today's groundbreaking discoveries are key to our future. Better health, environmental sustainability, and the advancement of humankind all ride on the ability to continually innovate in

engineering and science. These are areas that each of us—not just engineers and scientists—can get excited about improving.

That's where data and technology—specifically the supercomputing category of high performance computing (HPC)—come in. HPC is enabling possibilities that were previously only just imagined, unleashing novel innovations that can create a better future for us all.

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The Power of HPC Supercomputing.

What is HPC?

High performance computing (HPC) processes massive amounts of data, performing complex calculations at rapid speed across multiple servers in parallel. A supercomputer is a special class of HPC and is akin to having thousands of PCs working together to generate more compute power and complete complex tasks at lightning-fast speeds.

For example, a PC with a 4.2 GHz processor can perform 4.2 billion calculations per second. HPC, after reaching the exascale in 2022, can now perform at least 1,000,000,000,000,000,000 calculations per second.

HPC solutions

The three interdependent components of HPC solutions include compute, network and storage. HPC architecture crafts clusters comprised of hundreds or thousands of servers, called nodes, that are networked together. The nodes work in parallel to deliver incredible processing speeds that are the hallmark of high performance computing.

Dell HPC solutions can be deployed on-premises, at the edge or in the cloud. In short, HPC technologies utilize state-of-the-art componentry, like CPUs and GPUs that enable next-generation processing capabilities alongside storage and networking components.

HPC applications and industries

With record performance, HPC is being used to solve the world's most complex problems, transforming data into insights faster with AMD. It spans industries and applications such as research, energy, engineering, healthcare, financial services, automotive and aerospace.

To put it in better perspective, let's look at seven awe-inspiring real-world examples of HPC in action and their profound impact on humankind.

Solving mysteries of the universe

Helps us understand where we came from and where we are going.

The James Webb Space Telescope (JWST), together with HPC simulations, recently made an important and unexpected discovery about galaxy formation. Work is underway to verify the discovery as true. Peering back 13.5 billion years ago, close to the dawn of the universe, JWST found six new galaxies, all of which are way more mature and massive than anyone expected.

This surprising discovery would not be possible without HPC. That's because tackling colossal questions about the origins of the universe requires a massive amount of computing power.

Durham University, working with Dell Technologies and AMD, set up a Cosmology Machine (COSMA) to begin answering these questions. COSMA is part of the Distributed Research utilizing Advanced Computing (DiRAC) facility, with five deployments at the Universities of Cambridge, Durham, Edinburgh, Leicester and UCL¹. COSMA allows scientists to process enormous amounts of data and continually conduct huge, in-depth simulations. Clues revealed by JWST can then be used to uncover big insights about the origins and makeup of the universe.

"HPC means we can run massively more detailed simulations, which we can compare much better with observations from telescopes," Dr. Alastair Basden, technical manager for the COSMA high performance computing system at Durham University. "This will help us to understand the meaning of the universe, dark matter, dark energy and how the universe was formed. It's really going to help us reach a fundamental understanding of the world that we live in."



¹ <https://www.itpro.co.uk/data-insights/big-data/369538/big-data-nasa-james-webb-space-telescope>



"With HPC, we can find correlations—quickly and accurately—that would not be possible to find otherwise. For example, our DNA research is now able to look at the entire genomic sequence, boosting precision, expanding knowledge and ultimately impacting people's lives."

Ian Fisk, Ph.D., Scientific Computing Core
Co-Director at the Flatiron Institute.

Discovering cures for diseases

with incredible speed transforms patient care and impacts our health and well-being.

The quest to understand the human body never rests. Many aspects of our complex and dynamic molecular networks remain cloaked in mystery. But HPC is changing that by enabling genomic approaches and sophisticated analytics that help explain the human body's awe-inspiring sophistication. By doing so, scientists are discovering novel insights that help fight disease and improve lives.

At the core of genomic research is DNA sequencing. To be effective, it uses enormous volumes of de-identified DNA from thousands of families around the world. The goal is to analyze the data and find correlations between DNA and disease that can be used to help us better prevent and treat maladies. Data analysis at this scale and speed is only possible with a massive amount of compute power—or HPC. In one example, HPC-powered DNA sequencing that used to take 10 years can now be conducted within 4-6 weeks.

Using HPC together with DNA sequencing, research at the [Flatiron Institute](#), an internal division of the Simons Foundation, recently uncovered a surprising correlation. Scientists studying the kidney cells of COVID-19 patients and diabetic kidney disease patients found that both types of patients experienced a similar set of molecular processes². This finding suggests that diabetes patients may be especially vulnerable to COVID-19 and posits why the two diseases together can be so lethal. In addition, the study debunked the previously held belief that medications used for hypertension and diabetes do not likely increase COVID-19 infection risk.

And this is only the beginning. Decoding the human genome has only just scratched the surface of what is possible. But one thing is true, HPC, paired with genomic research, is making the previously impossible, possible. Our future selves will surely benefit from it.

² <https://www.simonsfoundation.org/2020/10/23/molecular-processes-in-kidney-cells-may-prime-diabetics-for-covid-19-infection/>

Modeling wildfire behavior

Helps us understand how to mitigate their impact, boost people's safety and better sustain our environment.

Forest fires are getting worse. Today, they are burning nearly twice as much tree cover as 20 years ago, according to a study by the World Resources Institute.³

Forest fires, spurred by global warming and climate change, are forecasted to continue to grow in breadth and severity. Per the climate feedback loop, more forest fires exacerbate conditions for more and more forest fires.

With the goal of better-protecting lives, property and our forests, the University of California's [San Diego Supercomputer Center](#) is using HPC powered by Dell Technologies and AMD in their Expanse center to model wildfires. HPC modeling strives to understand how wildfires spread so that faster-than-real-time predictions can help to mitigate their impact.

Since wildfires are complex, highly dynamic and unplanned events, decoding their behavior is ideally suited to HPC modeling. Atmospheric data about wind speed, wind direction and humidity (including fuel moisture content) are coupled with other inputs such as topography, satellite data and landscape change data to model wildfire behavior via HPC's vast and sophisticated simulation and modeling capabilities⁴.

"This is important work because mitigating the impacts of wildfires is essential to securing a solid future for communities around the world. HPC is the vehicle enabling the prediction of wildfire spread—before it occurs and when it can be most effectively addressed. It's a powerful combination," shares Shawn Strande, deputy director of the San Diego Supercomputer Center at the University of California, San Diego.

Modeling wildfires is one way HPC is helping us create a healthier planet.

³ <https://www.wri.org/insights/global-trends-forest-fires>

⁴ https://ral.ucar.edu/sites/default/files/public/file_attach/features/KosovicHPCUserForum2022-compressed.pdf





Understanding how our brains store information

Helps us answer fundamental questions about learning and can also lead to better artificial intelligence.

Some memories are unforgettable. But scientists' understanding of how our brains keep them that way is undergoing a radical pivot. The longstanding belief was that memories were tied to specific neurons and their connective synapses. At the Flatiron Institute's Center for Computational Neuroscience, HPC and recent research have shown otherwise, pointing to a new concept termed "representational drift".⁵

When you drive your vehicle around your neighborhood, the specific recall neurons that fire your memory are not fixed, as previously thought, but rather in constant flux. One neuron group can help you navigate on Monday and another on Tuesday. That's representational drift, a concept tied to the ever-changing relationship between cells, not the specific cells themselves. Despite this dynamic phenomenon, our memories and learned behaviors can remain strong. For scientists, it's a puzzling paradox.

Dell Technologies and AMD are helping scientists at the Flatiron Institute uncover possible answers to how this can work by modeling representation drift. Early findings lend insight into how fluctuating representations operate. In short, when a synapse fails to transmit, our neural representations drift among different pathways but maintain similar patterns, enabling our memories to endure.

"Our brain memory work embodies Flatiron Institute's mission to advance scientific research through computational methods, including data analysis, theory, modeling and simulation. While our new model is essential, we are still a long way to understanding how the brain works," comments Ian Fisk, Ph.D., Scientific Computing Core Co-Director at the Flatiron Institute. "Thankfully, HPC is moving our research forward with incredible speed."

The brain is both a marvel and a mystery. HPC models are fast and powerful teachers that are helping to educate us about our brain, our memories and how we learn.

⁵ <https://www.simonsfoundation.org/2023/03/09/computational-model-uncovers-new-insights-into-how-our-brains-store-information/>

Researching material science

Helps us improve our energy posture—rapidly, responsibly, and reliably—as we collectively strive to improve tomorrow for humankind.

Room-temperature superconductors, when fully developed, will be a total game-changer for society. Currently, room-temperature superconductors are the holy grail of physics. Unraveling ways to create room-temperature superconductors have stumped scientists for decades, with many dedicating a lifetime to try and crack this challenge. When solved, superconductivity will change the world in profound ways, most notably in electrical grids and transportation—such as electric vehicles and magnetically levitating train systems—and, ironically, in supercomputing itself.

Today, conductors that transport electricity are inefficient, dissipating about 6-10% of the energy generated by the electrical grid as it passes through.^{6,7} This costs consumers billions of dollars each year in wasted energy production and keeps us more dependent on fossil fuels. By contrast, superconductors enable frictionless electricity, operating without waste or excess heat. Historically, however, superconducting was only possible at ultra-cold temperatures, such as -450 deg F. Recent discoveries show the promise of breakthrough materials that can superconduct at 59 degrees F, also known as room temperature.

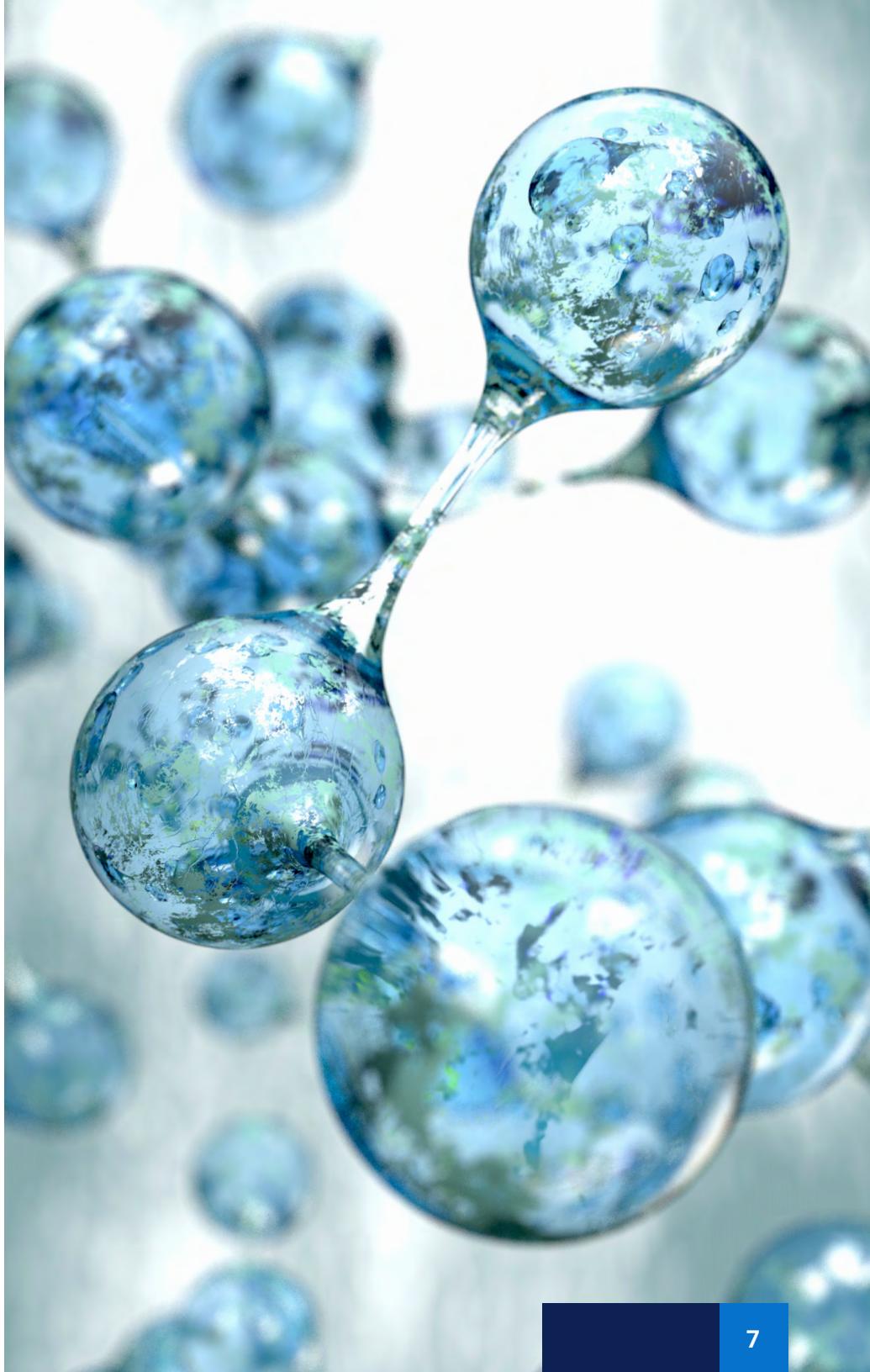
At the [Flatiron Institute](#), Dell Technologies and AMD are accelerating material science research to unlock the incredible potential of superconducting. It shaves years off of research by enabling simulations that rapidly expand the number of potential materials to investigate, quickly eliminating non-starters and identifying high-probability options.

"Our work in material science is significant because previously 10,000 possible materials or compounds might have been investigated over the course of a career. Today, the depth and productivity of HPC-powered research allow 10,000 materials to be analyzed within months and with high levels of precision, such as a couple of percentage points," says Ian Fisk, Ph.D., Scientific Computing Core Co-Director at the Flatiron Institute.

That means we may be able to revolutionize energy and forge an accelerated pathway to quit fossil fuels, creating a better tomorrow much sooner than we imagined.

⁶ <https://www.vice.com/en/article/y3gdgw/ok-what-is-room-temperature-superconducting-and-will-it-change-everything>

⁷ <https://theconversation.com/a-tenth-of-all-electricity-is-lost-in-the-grid-superconducting-cables-can-help-199001>





Studying computational biology

Moves us closer to finding cures for diseases.

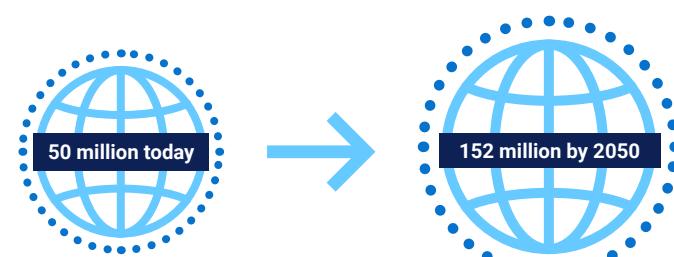
Alzheimer's disease is rampant, affecting an estimated 50 million people worldwide. A breakthrough to stem Alzheimer's is paramount. Without one, Alzheimer's disease could impact over 152 million people by 2050.

Research to find a cure is underway with San Diego Supercomputer Center's (SDSC) Expanse.* Using computational biology and SDSC's Expanse, researchers at the University of Kansas studying familial, or genetically inherited, Alzheimer's disease, made an important discovery. Cutting-edge HPC simulations provided first-ever mechanistic insights about γ -secretase, an important protein enzyme in familial Alzheimer's disease. Understanding γ -secretase interactions and mutations is key to uncovering pathways to better control thought, language and memory.

"Tackling Alzheimer's disease is a noble cause, uniquely enabled by our HPC supercomputer, Expanse. Early research findings show great promise in the ongoing pursuit of a treatment for the population at large and our scientists are passionately pursuing discoveries that will help," states Shawn Strande, deputy director of SDSC at the University of California, San Diego.

As the world's population ages, HPC-enabled research to find more effective treatments for Alzheimer's disease will be revolutionary for individuals, families and our communities.

* This research was made possible by HPC and the sponsoring organizations. This work was funded by the National Science Foundation and the National Institutes of Health. Supercomputing time on Expanse was funded by the NSF's Extreme Science and Engineering Discovery Environment.



50 million people currently affected
by Alzheimer's disease

Could impact over 152 million
people by 2050

Cracking cardiovascular disease

Can enable us to live healthier and longer with preventive care.

Each year, about 56 million people die.⁸ By a large margin, the leading cause of death is cardiovascular disease, responsible for over 33% of deaths globally.

To peel back the layers, a major cause of human cardiovascular disease is atherosclerosis. The key culprit that acts early to kickstart the development of atherosclerosis is foam cell formation.⁹ And, a major factor in foam cell formation is lipid droplets. Lipid droplets manage lipid storage, lipid balance and potential protein associations.¹⁰ Interestingly, lipid imbalance is related to a variety of diseases beyond cardiovascular disease such as obesity, fatty liver disease, type 2 diabetes, Alzheimer's disease and cancer. That's why gaining insights about lipid droplets can be so transformational.

That led researchers at the University of Utah¹¹ to work on tackling atherosclerosis by exploring foam cell formation and lipid droplets. They are using AMD EPYC compute at Expanse at San Diego Supercomputer Center to model the effect of sterol esters and non-encoding RNAs on lipid droplet phase changes and foam cell formations. Breakthroughs in this area of science could help millions of people around the world mitigate the impact of diseases that are often fatal.

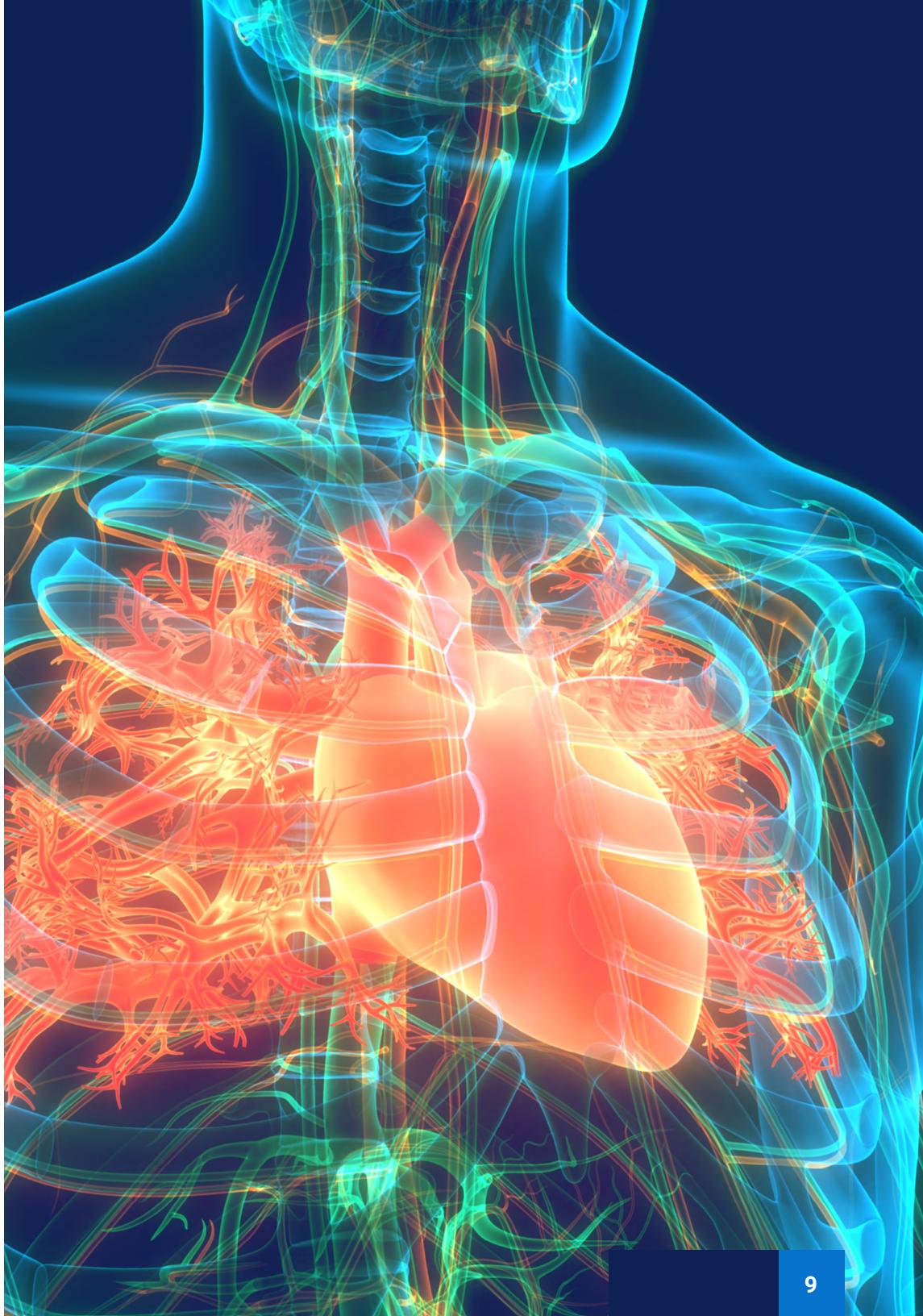
"Our researchers are fast-tracking what's possible with HPC at SDSC, a pioneering leader in high-performance and data-intensive computing. Helping tackle global epidemics like atherosclerosis is a great demonstration of what HPC can do for our world," says Shawn Strande, deputy director of SDSC at the University of California, San Diego.

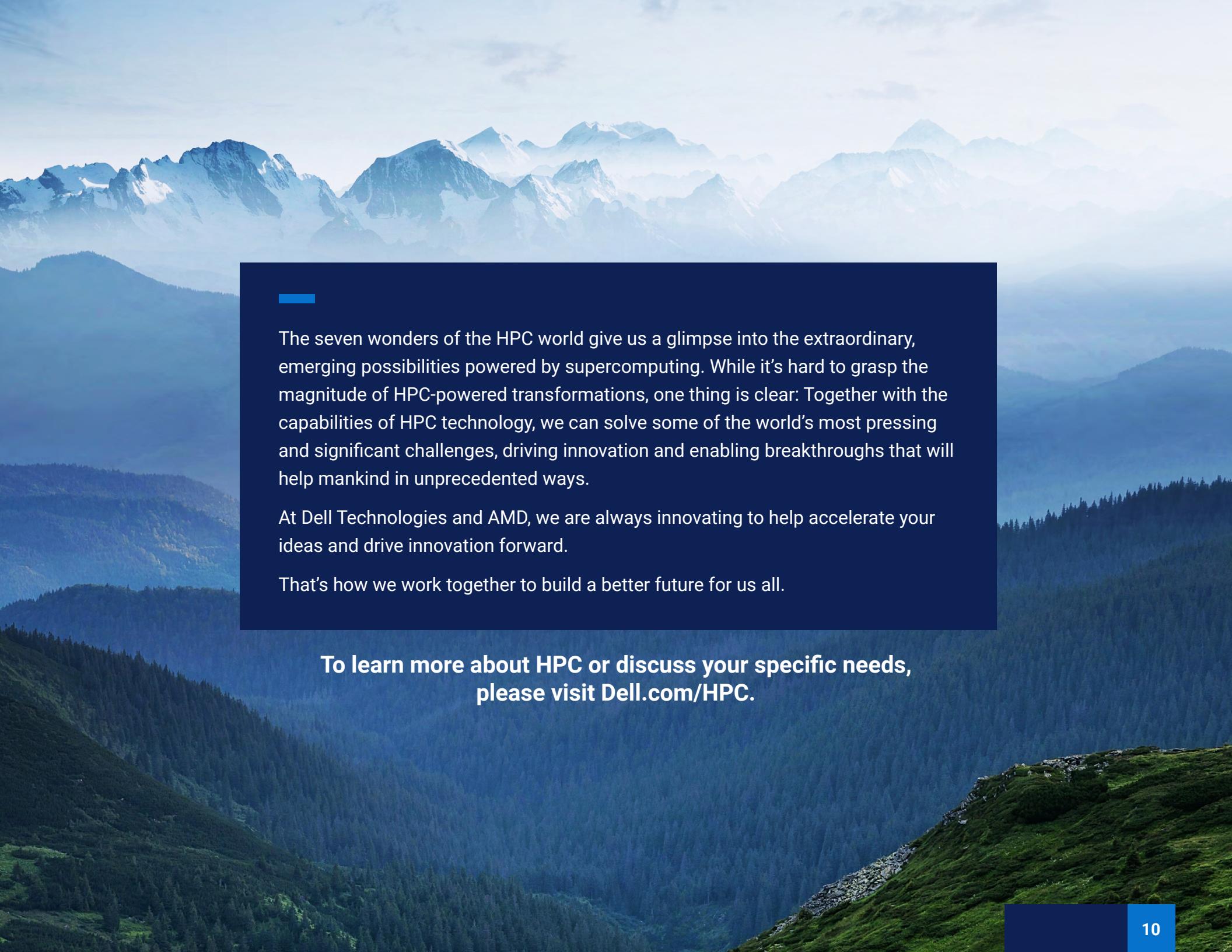
8 <https://ourworldindata.org/causes-of-death>

9 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7961492/>

10 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6770496/>

11 <https://www.biorxiv.org/content/10.1101/2022.06.05.494869v1>





The seven wonders of the HPC world give us a glimpse into the extraordinary, emerging possibilities powered by supercomputing. While it's hard to grasp the magnitude of HPC-powered transformations, one thing is clear: Together with the capabilities of HPC technology, we can solve some of the world's most pressing and significant challenges, driving innovation and enabling breakthroughs that will help mankind in unprecedented ways.

At Dell Technologies and AMD, we are always innovating to help accelerate your ideas and drive innovation forward.

That's how we work together to build a better future for us all.

**To learn more about HPC or discuss your specific needs,
please visit Dell.com/HPC.**



Rack Servers

Buyer's Guide & Reviews

February 2024

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IBM Power Systems	18 - 20
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Vendor Directory

AIC Inc.	AIC SB102-HK Rackmount Server	Huawei	Huawei FusionServer RH Series Rack Servers
Amax	AMAX ServMax Servers	Huawei	Huawei N2000 V3 Series NAS Storage System
Amax	AMAX ClusterMax	Huawei	Huawei KunLun Mission Critical Server
Cisco	Cisco UCS C-Series Rack Servers	Hypertec Group	Hypertec ORION RS
Dell Technologies	Dell PowerEdge Rack Servers	IBM	IBM Power Systems
Dell Technologies	Dell PowerEdge FX	Intel	Intel Server System
Dell Technologies	Dell XR2 Rugged Server	Lenovo	Lenovo ThinkSystem Rack Servers
Dell Technologies	Dell PowerEdge XE Servers	Lenovo	Lenovo Edge Servers
Hewlett Packard Enterprise	HPE ProLiant DL Servers	Lenovo	Lenovo Mission-Critical Servers
Hewlett Packard Enterprise	HPE Apollo	Lenovo	Lenovo High-Density Servers
Hewlett Packard Enterprise	HPE Moonshot	Oracle	Oracle SPARC Servers

Top Rack Servers Solutions

Over 753,159 professionals have used PeerSpot research. Here are the top Rack Servers vendors based on product reviews, ratings, and comparisons. All reviews and ratings are from real users, validated by our triple authentication process.

Chart Key

● Views	● Comparisons	● Reviews	● Words/Review	● Average Rating
Number of views	Number of times compared to another product	Total number of reviews on PeerSpot	Average words per review on PeerSpot	Average rating based on reviews

Bar length

The total ranking of a product in a category, represented by the bar length, is based on a weighted aggregate score. The score is calculated using the following factors:

ul>
li>**Comparisons Views:** the product with the highest number of comparisons with other products-in-the-category gets a maximum of **25 points**. Every other product gets assigned points based on its total in proportion to the #1 product in that ranking factor. For example, if a product has 80% of the number of comparison views compared to the product with the most reviews then the product's points for reviews would be $25 * 80\%$./li>

li>**Views:** We calculate the number of Views based on the percentage of category comparisons out of the total comparisons of the product./li>

ul>
li>For example, if a product has 100 Comparisons with other products in the category and a total of 1,000 Comparisons, the product will be assigned 10% of the total number of Views. If the product has a total of 2,000 Views, it will be assigned 200 Views for this ranking factor./li>

li>The product with the highest number of views gets a maximum of **25 points**.

Every other product gets assigned points based on its total in proportion to the #1 product in that ranking factor./li>

li>For example, if a product has 100 Comparisons with other products in the category and a total of 1,000 Comparisons, the product will be assigned 10% of the total number of Views. If the product has a total of 2,000 Views, it will be assigned 200 Views for this ranking factor./li>

/ul>
li>**Reviews:** the product with the highest number of reviews gets a maximum of **15 points**. Every other product gets assigned points based on its total in proportion to the #1 product in that ranking factor. For example, if a product has 80% of the number of reviews compared to the product with the most reviews then the product's points for reviews would be $15 * 80\%$./li>

li>**Rating:** the maximum score is **25 points** awarded linearly between 6-10/li>

ul>

li>e.g. 6 or below=0 points; 7.5=7.5 points; 9.0=18 points; 10=25 points./li>

/ul>

li>**Words/Review:** the maximum score is **10 points** awarded linearly between 0-900 words/li>

ul>

li>e.g. 600 words = 4 points; 750 words = 7 points; 900 or more words = 10 points./li>

li>If a product has fewer than ten reviews, the point contribution for Rating and Words/Review is reduced: 1/3 reduction in points for products with 5-9 reviews, two-thirds reduction for products with fewer than five reviews./li>

/ul>

/ul>

Reviews that are more than 24 months old, as well as those written by resellers, are completely excluded from the ranking algorithm.

All products with 50+ points are designated as a Leader in their category.

Rankings for June 2023 and earlier used our previous ranking methodology. Learn more here.

1 Dell PowerEdge Rack Servers



2 HPE ProLiant DL Servers



3 Lenovo ThinkSystem Rack Servers



11,116 views

9,257 comparisons

13 reviews

411 words/review

8.5 average rating

4 IBM Power Systems



7,571 views

5,433 comparisons

20 reviews

364 words/review

8.8 average rating

5 Cisco UCS C-Series Rack Servers



5,355 views

3,016 comparisons

14 reviews

337 words/review

8.2 average rating

6 Oracle SPARC Servers



3,264 views

2,396 comparisons

5 reviews

400 words/review

8.6 average rating

7 Dell PowerEdge FX



838 views

633 comparisons

7 reviews

447 words/review

8.6 average rating

8 HPE Apollo



3,837 views

2,967 comparisons

4 reviews

426 words/review

8.5 average rating

9 Intel Server System



3,634 views

3,413 comparisons

1 reviews

329 words/review

8.0 average rating

10 Dell PowerEdge XE Servers



639 views

370 comparisons

6 reviews

319 words/review

8.3 average rating

Top Solutions by Ranking Factor

Views

VIEWS		
1	Dell PowerEdge Rack Servers	22,680
2	HPE ProLiant DL Servers	15,749
3	Lenovo ThinkSystem Rack Servers	11,116
4	IBM Power Systems	7,571
5	Cisco UCS C-Series Rack Servers	5,355

Reviews

REVIEWS		
1	Dell PowerEdge Rack Servers	72
2	HPE ProLiant DL Servers	27
3	IBM Power Systems	20
4	Cisco UCS C-Series Rack Servers	14
5	Lenovo ThinkSystem Rack Servers	13

Words / Review

WORDS / REVIEW		
1	Dell PowerEdge Rack Servers	724
2	Dell PowerEdge FX	447
3	HPE Apollo	426
4	Lenovo ThinkSystem Rack Servers	411
5	HPE ProLiant DL Servers	409



Dell PowerEdge Rack Servers

[See 80 reviews >>](#)

Overview

PowerEdge R is available in three models and with the following advantages: Entry level is simple, entry level server ideal for businesses just migrating to server usage, advanced is offering more cache and speed, these servers offer more options for processors, expansion and virtualization, Premium create a dynamic infrastructure with flexible workloads from a complete virtualization platform.

SAMPLE CUSTOMERS

NxtGen Datacenter, Medien-Service Untermain (MSU), Exasol, IndigoVision, Dayco

TOP COMPARISONS

HPE ProLiant DL Servers vs. Dell PowerEdge Rack Servers ... Compared 40% of the time [\[See comparison\]](#)

Lenovo ThinkSystem Rack Servers vs. Dell PowerEdge Rack Servers ... Compared 35% of the time [\[See comparison\]](#)

Cisco UCS C-Series Rack Servers vs. Dell PowerEdge Rack Servers ... Compared 9% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 18%
Manufacturing Company ... 8%
Comms Service Provider ... 8%
Government ... 7%

COMPANY SIZE

1-200 Employees ... 30%
201-1000 Employees ... 16%
1001+ Employees ... 55%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Manufacturing Company ... 23%
Computer Software Company ... 12%
Construction Company ... 5%
University ... 5%

COMPANY SIZE

1-200 Employees ... 35%
201-1000 Employees ... 25%
1001+ Employees ... 40%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)


Wilfried Hotot

We can set up the systems where we have disks as RAID, and then on other systems, we set up SSD M.2, which is only set up for the OS. This is great. It separates two systems very well, which is a very good thing. We used to have HPE. Dell PowerEdge Rack Servers are much easier to use and manage. [\[Full Review\]](#)



Verified user

There is no specific feature that is more valuable than other servers for us. Because it is part of an overall solution that Dell has offered us, we opted for Dell's PowerEdge servers. Overall, it is a good solution. It works perfectly, especially in terms of availability and reliability, without any type of issue, which is why we are very happy with it. [\[Full Review\]](#)



Verified user

The robustness of the hardware itself is valuable. We have had PowerEdge servers running even after they were out of their warranty timeline. For example, about four or five years ago, we updated the virtualization platform. One of the servers that we had on that platform was ten years old. These servers have a lot of durability. You can see that they are well-made. [\[Full Review\]](#)



Verified user

What truly impresses me about Dell PowerEdge Rack Servers is their unwavering commitment to customer service, providing great assistance throughout the entire product lifecycle. This unparalleled level of support extends for an extended duration, ensuring that our servers remain reliable and secure for years to come. Furthermore, the exceptional quality of these servers is evident in their engineering and robust construction, guaranteeing peak performance and unwavering stability even under the most demanding workloads. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


Matthieu Enders

We have not had or come across any major problems. With regards to prices and support, they have always been very responsive, but we know that when we need more storage, we can easily find something much cheaper elsewhere. The equipment is very good, but the price is a bit too high. In addition, their support for parts can be better. [\[Full Review\]](#)



Pascal Blonde

The problem that we have had is not a technical one but an economic one. In other words, we are working with national markets, and HP Enterprise is cheaper. Dell could have made an effort there. For example, two or three years ago, we spoke to a salesperson or a presales engineer about replacing our infrastructure with file servers, but the price that we were offered was very high. [\[Full Review\]](#)



Thierry Bourel

We use Dell PowerEdge Rack Servers in the data center. We put the racks in bays. They can improve the compactness so that we can put more of them. We do not have much of a problem with the noise, but they are still as noisy as before, even after they have improved them. The customer service on certain parts can be better, but nowadays, we do not get many issues. As far as we are concerned, it is a clean environment. It is a data center environment, so it has air conditioning. The servers do not face many restrictions. They do not have any dust. [\[Full Review\]](#)



Dell PowerEdge Rack Servers

Continued from previous page



Wilfried Hotot

There can be more visibility on the equipment remotely. It will help us to provide a better response in case of a breakdown because we are not always monitoring them. It will enable us to be more reactive when there is a breakdown at the level of the ventilation disk or the temperature. We are currently using another software that connects us to the server. It is called Grafana. It allows us to be connected to the servers and gather information, but it is not always that straightforward to get these two connected. It would be great to have one gener... [\[Full Review\]](#)



Javier Domingo

They gave us a satisfaction survey, and we did not go below nine, so we are very happy with the solution. We are loyal customers. Obviously, the price could be lower. [\[Full Review\]](#)



Verified user

Lately, we feel that we need an improvement in our servers. Surprisingly, we have seen some servers here that do meet these characteristics. They are slightly smaller servers. On ships, we have racks to be able to mount devices, and both the servers and the communication devices have to be small. They have to be small in depth. We need servers with the same power and the same characteristics as in the office or on land, but we would like them to be smaller. They will be more practical when it comes to being able to handle them and place them at loca... [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)

Matthieu Enders

As far as licenses are concerned, we have very few servers. We no longer need the licenses. It depends directly on the manufacturers or the people who develop the software. Instead of taking them with the servers, because we are not always sure of the specific use for a specific server, we get the licenses afterward. With regards to the rates, there are times when Dell is not able to match the prices of other manufacturers who offer us something cheaper. For storage, it can vary, and the cost can be twice as much. [\[Full Review\]](#)



Pascal Blonde

They are expensive. As far as the licenses are concerned, we are fine. It is more about the price of the equipment. Some colleagues in other universities have done a comparison, and for a similar configuration, there was at least a 10% to 20% discount with HPE in comparison to the prices from Dell. [\[Full Review\]](#)



Verified user

The pricing policies of the manufacturers vary based on the company, but generally, they are quite correct. What happens is that the purchasing departments of companies like ours do a lot for the price, and sometimes, you find yourself forced to work with another manufacturer. We have two main vendors that we work with to have aligned prices, and Dell is one of them. [\[Full Review\]](#)



Verified user

The cost structure associated with Dell PowerEdge Rack Servers presents itself as a potential point of contention for budget-conscious consumers, as it could be more strategically positioned to compete within the broader marketplace. Additionally, the degree of configurability offered by these server solutions might warrant further scrutiny, as it may not invariably align with the precise requirements of every individual user or organization. [\[Full Review\]](#)



Sascha Ernst

Pricing appears to be comparatively favorable, particularly within the project's scope. However, the licensing terms can occasionally be somewhat opaque, making it difficult for me to fully grasp them. I often rely on my partner's expertise in this area for clarification. It would be more agreeable if the licensing could be streamlined a little, potentially by providing more transparent and concise language. Furthermore, the current nomenclature for different tiers, e.g., Enterprise, Super Enterprise can be confusing and uninformative. It would be m... [\[Full Review\]](#)

HPE ProLiant DL Servers [See 31 reviews >>](#)

Overview

ProLiant Servers provide a complete infrastructure that support both your business objectives and your business growth.

SAMPLE CUSTOMERS

AmeriPride Services, iSource, Bolagsverket, BlueShore Financial, British Columbia Assessment Authority, National Stock Exchange, Cardlytics

TOP COMPARISONS

Dell PowerEdge Rack Servers vs. HPE ProLiant DL Servers ... Compared 50% of the time [\[See comparison\]](#)

Lenovo ThinkSystem Rack Servers vs. HPE ProLiant DL Servers ... Compared 24% of the time [\[See comparison\]](#)

HPE Apollo vs. HPE ProLiant DL Servers ... Compared 8% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 18%
Government ... 8%
Comms Service Provider ... 8%
Manufacturing Company ... 7%

COMPANY SIZE

1-200 Employees ... 30%
201-1000 Employees ... 17%
1001+ Employees ... 53%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Financial Services Firm ... 16%
Manufacturing Company ... 12%
Energy/Utilities Company ... 9%
Computer Software Company ... 7%

COMPANY SIZE

1-200 Employees ... 31%
201-1000 Employees ... 15%
1001+ Employees ... 54%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.

HPE ProLiant DL Servers

Continued from previous page

Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)
Parag
Veerkar

The management console is very good. It allows for a wide variety of management capabilities. It's very easy to use. I can get analytics as well. I can see the performance and look up bottlenecks. The availability is very good. It offers the best performance for my workloads. It offers very nice flash arrays. The configuration is pretty good. It is stable. [\[Full Review\]](#)

Mohammad
Reza
Ghazaei

We like that the solution is very easy to use. Many companies use it in our market. In Iran, we don't have many options, and HP is one of them. It works well overall. It can scale. It's reliable and stable. We find the solution easy to set up. [\[Full Review\]](#)



Chris Chang

HPE service in Taiwan is quick and professional, and ProLiant is cost-effective compared to Dell. Dell is good for one or two servers, but HPE is cheaper than Dell for a large deployment. Cost is the most important thing in the market. [\[Full Review\]](#)

Ozgur-
Sargin

I trust the hardware mostly. There are some features like intelligent provisioning, et cetera, which are quite useful. The ILO for management is great. It's scalable. The solution is stable and reliable. [\[Full Review\]](#)



Nikos Ellinas

HP ProLiant servers provide redundant solutions for almost everything. You can set up multiple power supplies, with a primary power source and a secondary power supply connected on UPS. If the power goes out in the building, the UPS will supply power to the host at all times. The solution can run on batteries for many hours, depending on your battery and UPS capacity. ProLiant servers also offer multiple networking interfaces, so they can be connected to various network equipment concurrently, allowing you to avoid disruptions from the network or in... [\[Full Review\]](#)



Shahid Elahi

Technical support is helpful. It's very easy to set up. The product has a more flexible infrastructure and management consultation in comparison to Dell. It's energy-efficient. It's consumed less energy than the previous solution and the performance is great. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


ErkanVarol

The product must provide time travel features. Oracle Flashback Database provides such features. If there's an error, we can travel back in time and revert it. If someone imports a wrong request, we can ask the system to go back in time so that the system has no problem. Backup and recovery are the most important features. [\[Full Review\]](#)

HPE ProLiant DL Servers

Continued from previous page



Sreevatsa M

HPE SmartStart was valuable for HPE ProLiant DL Servers. However, I believe it has been discontinued, considering your technical awareness of current developments. There is a feature called SmartStart, which refers to the HPE SmartStart CD provided by HPE. This CD was available until 2008. Now, in the present scenario, people are migrating from Server 2008 to Server 2019. Logically, according to the manufacturer, HPE, it's stated that SmartStart is not compatible with newer operating systems like 2019 or 2016. It doesn't work. However, I have person... [\[Full Review\]](#)



Giorgio Pozzi

I would like the solution to improve its storage and performance. Also, I would like to replicate data between on-premises and cloud in future versions. [\[Full Review\]](#)



Verified user

They should improve the speed of the solution's processor. A core banking service like ours needs faster processing for our central server. We have to run an extensive process half yearly. The solution takes more than 24 to 30 hours to complete it. Ideally, it should take six to seven hours. Our industry is growing daily with an increase in the number of customers. Thus, we plan to move to a solution with better processing speed. They should build risc processors with high speed. Additionally, they should reduce the prices as it is a significant con... [\[Full Review\]](#)



Sreten Stijepovic

The memory has room for improvement. I want the ability to upgrade the memory to avoid crashes. The cost of the solution is high and has room for improvement. I would like faster internet ports included. [\[Full Review\]](#)



Ricardo Elorza

The technical support has room for improvement. HPE's interactions with other vendors tend to not be very productive. For example, we use VMware and whenever we have an ELA with HPE for VMware, we get support from them. Whenever there is an issue with their peers, they just talk about each other. When it gets worse, support can become really complicated. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)


Chris Chang

HPE is more popular with my clients because of the price. They will generally go with HPE unless another brand in the market can offer the same specs cheaper with the same stability and service quality. Our customers are generally happy with HPE's price. [\[Full Review\]](#)



NirmalNand akumar

There are less expensive solutions than HPE ProLiant DL Servers. However, there is a lot of value in this solution. The price of the solution could be less expensive. [\[Full Review\]](#)



Nikos Ellinas

You only need to pay for the hardware, but you can also purchase a license for Integrated Lights-Out technology, which gives you the option to connect to the server like you are physically on site connected with the mouse, keyboard and screen directly on the server. It's an extra feature that you need to pay for, but we are not using it. It's an amazing feature, but I have no idea how much the license costs. [\[Full Review\]](#)



Lenovo ThinkSystem Rack Servers

[See 14 reviews >>](#)

Overview

From growing small businesses to enterprise workloads, Lenovo rack servers offer the unmatched value, flexibility and industry-leading efficiency to meet mission-critical demands with legendary quality and reliability.

SAMPLE CUSTOMERS

immixGroup, Komsomolskaya Pravda, SRG Global, Seekr, Infiniti Red Bull Racing, jKool, Tennis Australia, VEKA, Netpoints, Gamma Powersports

TOP COMPARISONS

Dell PowerEdge Rack Servers vs. Lenovo ThinkSystem Rack Servers ... Compared 59% of the time [\[See comparison\]](#)

HPE ProLiant DL Servers vs. Lenovo ThinkSystem Rack Servers ... Compared 32% of the time [\[See comparison\]](#)

IBM Power Systems vs. Lenovo ThinkSystem Rack Servers ... Compared 3% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 18%
Comms Service Provider ... 7%
Manufacturing Company ... 7%
Financial Services Firm ... 7%

COMPANY SIZE

1-200 Employees ... 31%
201-1000 Employees ... 17%
1001+ Employees ... 52%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Financial Services Firm ... 14%
Government ... 14%
Educational Organization ... 14%
Comms Service Provider ... 7%

COMPANY SIZE

1-200 Employees ... 64%
201-1000 Employees ... 12%
1001+ Employees ... 24%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Lenovo ThinkSystem Rack Servers

Continued from previous page

Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)


Tasos Demetriou

What I like the most about Lenovo ThinkSystem Rack Servers is that they save space by consolidating everything into one cabinet, making management more straightforward. Additionally, easy integration with UPS systems provides added convenience and efficiency for our operations. [\[Full Review\]](#)



Muhammad Salman

Lenovo could improve its solution for blade servers. Many customers are still using blade servers. They are providing solutions for blade servers, but they have now moved on to completing the virtualization-based system. They have incorporated ESXi and have a joint venture with ESXi Solutions, and we are dealing with them. [\[Full Review\]](#)



Adalberto Giarettta

The reliability is great. The solution is like any other commodity like Dell or HPE. These are all very similar. Setting up the solution is easy. It is stable. Technical support has been very good overall. The product scales well. [\[Full Review\]](#)



AUGUSTINE GRACIOUS

The Lenovo ThinkSystem Rack Servers have incorporated much of the technology from IBM, including several patent innovations. One is Predictive Failure Analysis (PFA), a feature that highly benefits customers, allowing them to determine failing parts and components. Additionally, Lenovo has introduced Lenovo XClarity and XClarity Orchestrator, tools that enable the management of multiple servers on a single console. The solution can be easily deployed and configured, and it can take care of the health of your servers. A feature known as Call Home ale... [\[Full Review\]](#)



Getachew Zeleke

The hardware is good. The initial setup is easy. It offers technical support. You can get additional features from XClarity, a web page. The solution is stable. You can scale the product. [\[Full Review\]](#)



Aleksandar Popovic

It's very power-efficient and allows you to access the rack server directly without accessing the operating system on that server. They use XClarity Controller to access the server and monitor the status of the server. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


Tasos Demetriou

Improvements could be made in the network cards, particularly by offering options for higher-speed cards beyond the current 10 GB. Upgrading to faster network cards would enhance performance and meet the demand for increased network speeds. [\[Full Review\]](#)



Mike
Bellemans

Performance and scalability-wise, there are certain areas where the product lacks and needs improvement as it does not provide a lot of fancy features presently. In general, it is a normal product that is good enough for our company. For the time being, my company does not need any extra features. [\[Full Review\]](#)



Georges
FONGANG

I have not seen any weaknesses while using the solution, and my company has been using the solution for more than five years now. My company doesn't face any real issues with the solution, and only sometimes there is a minor issue making the solution overall stable for us. The price of Lenovo ThinkSystem Rack Servers is higher compared to its competitors. I would like to see a lower price for the product in the future. [\[Full Review\]](#)



AUGUSTINE
GRACIOUS

To be frank, the technical support from Lenovo's team needs improvement. There seems to be a lack of support, and it is important for Lenovo to address this issue. I believe that it is important to provide more details about the issue. Sometimes, we have noticed that our workloads are not performing well due to server issues. It would be helpful to have a dashboard to identify these issues and explain why the server is not performing well. This is because the cause of the issue may vary depending on the application and process being used. For instan... [\[Full Review\]](#)



Getatchew
Zeleke

The installation could be better. Most Africans install to SR650, or medium servers. Then there is something that connects it, typically Windows servers. There are other solutions that are less expensive. [\[Full Review\]](#)



Michael
Alward

Lenovo ThinkSystem Rack Servers could improve the availability of their solution. The supply chain is severely broken, we've had to wait many months for component parts to a system time after time. The availability of discs and raid controllers has been difficult lately. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)



Muhammad
Salman

The solution's pricing depends on the server's configuration. A higher-classification machine will be more expensive, while a standard machine will be reasonably priced. A basic machine will be the cheapest. [\[Full Review\]](#)



Georges
FONGANG

For the price my company pays for Lenovo ThinkSystem Rack Servers, we can have more from other vendors offering the same functionalities that are present in Lenovo ThinkSystem Rack Servers at a lower price. Lenovo ThinkSystem Rack Servers can be categorized as a product falling under an affordable price range but more expensive than its competitors. [\[Full Review\]](#)



NirmalNand
akumar

The price of Lenovo ThinkSystem Rack Servers is highly competitive. Many customers prefer this solution because of the price. However, the price could be reduced. There is a license needed to use the solution. [\[Full Review\]](#)



[See 21 reviews >>](#)

Overview

IBM Power Systems are built to crush the most advanced data applications - from the mission-critical workloads you run today to the next generation of AI.

SAMPLE CUSTOMERS

Cipher

TOP COMPARISONS

Intel Server System vs. IBM Power Systems ... Compared 41% of the time [\[See comparison\]](#)

Dell PowerEdge Rack Servers vs. IBM Power Systems ... Compared 19% of the time [\[See comparison\]](#)

Oracle SPARC Servers vs. IBM Power Systems ... Compared 18% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Financial Services Firm ... 17%

Computer Software Company ... 14%

Manufacturing Company ... 8%

Comms Service Provider ... 6%

COMPANY SIZE

1-200 Employees ... 22%

201-1000 Employees ... 16%

1001+ Employees ... 63%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Financial Services Firm ... 36%

Retailer ... 15%

Manufacturing Company ... 9%

Government ... 6%

COMPANY SIZE

1-200 Employees ... 23%

201-1000 Employees ... 18%

1001+ Employees ... 58%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.

IBM Power Systems

Continued from previous page

Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)


Rohintan-Karanjia

Compared to x86 platforms, their reliability is unbeatable. They also excel in security, especially with specific features like HIPs, Postgres, intrusion prevention systems, and even built-in AI for specific goals. Additionally, the processing power is far superior, especially with the RSA feature for reliability, serviceability, and availability. [\[Full Review\]](#)



Md Al-Amin

The most valuable features include: * RAS (Reliability, Availability, Sustainability) * Reliability (Reliable on performance, uptime, and longevity) * Availability (Available for applications running on it) * Sustainability (Sustainable for backward compatibility of application growth and parts availability) * Accessibility (The server gives performance even if the CPU is 100%. No new user can connect, however, the existing user will not understand that the server CPU is 100% full) * Machine Performance, Uptime, manageability, and runtime resource a... [\[Full Review\]](#)



Getachew Zeleke

IBM Power Systems get updated every two years and are scalable and stable. It is 99.99% easy to update. Power VMA integrations are unique to IBM in that they are free. [\[Full Review\]](#)



Omobolaji Olaloku

The most valuable feature of our machines is their ability to replace faulty parts without causing any downtime. Our servers are equipped with advanced technology, making it possible to replace defective parts without having to bring down the servers. This is crucial, as any disruption to our services would result in inconvenience to our customers. Therefore, being able to service the machines and replace parts without causing any downtime is highly beneficial. [\[Full Review\]](#)



Adalberto Giaretta

The reliability and availability are both excellent. It offers very good security. The performance and stability are great. Technical support is helpful. The solution can scale well. [\[Full Review\]](#)



MertPolatay

Power Systems' best features include its user-friendliness and self-checking/self-healing abilities. It's also the best solution for MIMIX and high availability. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


DILMUROD VAHABDJAH NOV

IBM systems are old technologies. I couldn't renew and get to use IBM Power Systems, and it offers users very expensive support. The aforementioned areas can be considered for improvement in the product. [\[Full Review\]](#)

IBM Power Systems

Continued from previous page



Rohintan-Karanjia

We've found that sometimes, certain setups require better servers. Ideally, the next level of model that IBM offers would be perfect for those situations. Sometimes, the availability of additional services can be a challenge for some software. Certain IBM software takes time to deliver to the client. It can be slow. So deployment is an area for improvement. [\[Full Review\]](#)



Md Al-Amin

Feature-wise, the power system is great, however, IBM should work on pricing. No available price list is on the web. Due to this, the customer cannot compare pricing. For example, the RISC server can not be compared with the INTEL server over price. [\[Full Review\]](#)



Getachew Zeleke

In my country, there are power supply interruptions. IBM could find ways to make the product stable through these interruptions. Also, each time we have to go outside the storage, it fails. [\[Full Review\]](#)



Roberto Quiros

Speaking about the disadvantages, the tools available to manage IBM Power Systems are not that good. My company also uses VMware, which is easy to use. In IBM Power Systems, things can get complicated when you try to manage the platform. Price and complexity related to the management of the solution are areas of concern in the solution where improvements are required. [\[Full Review\]](#)



Adalberto Giaretta

They simply need to promote or provide more support to open applications like .NET. We'd like to see the solution support skill servers. The pricing is high. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)



Rohintan-Karanjia

It's more about the value you get for the price. Considering its stability and performance, the pricing is good. So, it is fairly priced after getting a good discount. In India, we get a good discount. [\[Full Review\]](#)



Md Al-Amin

The setup cost, pricing, and licensing are high. That said, you will get your ROI if you are in a CAPEX model operation. If your operation runs on an OPEX model, this is not an ideal option. [\[Full Review\]](#)



SunilSharma
9

The price of the solution depends upon the configuration part of it. Based on what configuration you want to go for it, there is a range like IBM Power Systems POWER9 and IBM Power Systems Power10. The price depends on what you want to have and what configuration you want for yourself, which varies. [\[Full Review\]](#)



Cisco UCS C-Series Rack Servers

[See 18 reviews >>](#)

Overview

UCS C-Series Rack Servers deliver unified computing in an industry-standard form factor to reduce TCO and increase agility. Each server addresses varying workload challenges through a balance of processing, memory, I/O, and internal storage resources.

SAMPLE CUSTOMERS

Advanced Medical Transport, Aegean Motorway, Anilana Hotels and Resorts, Artoni Transporti, BH Telecom, Bowling Green State University, City of Mississauga, Dualtec Cloud Builders, Electricity Authority of Cyprus, Grupo Industrial Saltillo (GIS), Kind en Gezin, Kuwait Petroleum Italia, Nationwide, Quest, Talbots, University of St. Gallen

TOP COMPARISONS

Dell PowerEdge Rack Servers vs. Cisco UCS C-Series Rack Servers ... Compared 50% of the time [\[See comparison\]](#)

HPE ProLiant DL Servers vs. Cisco UCS C-Series Rack Servers ... Compared 29% of the time [\[See comparison\]](#)

Lenovo ThinkSystem Rack Servers vs. Cisco UCS C-Series Rack Servers ... Compared 8% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 24%
Manufacturing Company ... 7%
Financial Services Firm ... 7%
Government ... 6%

COMPANY SIZE

1-200 Employees ... 25%
201-1000 Employees ... 16%
1001+ Employees ... 60%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Financial Services Firm ... 15%
Computer Software Company ... 15%
Comms Service Provider ... 8%
Construction Company ... 8%

COMPANY SIZE

1-200 Employees ... 36%
201-1000 Employees ... 24%
1001+ Employees ... 40%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Cisco UCS C-Series Rack Servers

Continued from previous page

Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)


Ernesto-Gonzalez

The best feature is the flexibility to virtualize virtual machines in the product. The UCS is a server where users create virtual machines and deploy servers. [\[Full Review\]](#)



Verified user

Cisco UCS C-Series Rack Servers are Intel-based servers, but they offer certain big features, like features related to Cisco UCS Virtual Interface Card (VIC). Cisco UCS C-Series Rack Servers hook up to Cisco UCS Fabric Interconnects, and then it goes as a leaf in Cisco ACI, and such an architecture gives a good network and bandwidth for both north-south and east-west access. Bandwidth is never a constraint because of Cisco UCS Fabric Interconnects. The rack server itself is mostly networking since everything remaining is available with any other vendor... [\[Full Review\]](#)



Mudhad Noman

The Cisco UCS Servers are very dependable, and they're very reliable. The clients are very happy with the product. The solution is stable. Technical support is excellent. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


Verified user

If you ask anyone, they would say the product is pretty expensive, making it an area of shortcoming where improvements are required. As a partner of Cisco involved in the positioning of rack servers alone, I can say that it will never be a winning proposition for my company in the long run. There is always a need to make it a part of a bigger project in our company to make the product more sellable. Rack servers alone are very expensive. When it becomes part of an overall solution, Cisco provides customers with good discounts, making it a competitive... [\[Full Review\]](#)



Sachin JungKarki

For the Cisco side, improvements could be made in terms of scalability, costing, available capabilities, or support for multiple types of hard drives. Cisco currently supports a limited range of hard drives, so if possible, they can maintain further overhead rates and broaden support for various types of hard drives. Another areas of improvement include pricing and scalability. [\[Full Review\]](#)



Ricardo Elorza

There is room for better integration with other brands. We encountered some issues when integrating with other platforms on Cisco. For example, we had a Dell EMC and it experienced difficulties at times. The connection would often drop speed and other issues. Cisco expects us to purchase all of its products, so anything from an outside source tends to cause problems. The price has room for improvement. [\[Full Review\]](#)



Jtendra Singh

Cisco UCS C-Series Rack Servers can improve by providing customization features to allow us to deploy them on the cloud. For example, we need VMware to allow us to accomplish a cloud deployment. Other solutions such as HP, Dell, and Samsung, are using VMware at a low cost. However, in Cisco UCS C-Series Rack Servers we are bound to use the Ninite software. [\[Full Review\]](#)



Cisco UCS C-Series Rack Servers

Continued from previous page



Mudhad Noman

The product is losing ground to the competition, such as Nutanix. It's not a scalable product. The pricing is too high and higher discounts should be available for our country. We'd like the solution to have integration with HCI software. As per my knowledge, Cisco doesn't have any HCI software. [\[Full Review\]](#)



Verified user

Cisco UCS C-Series Rack Servers could improve by adding a wider portfolio because they only have two main categories, the C-220 and 240. There is no wide range of options as other solutions have, such as Dell. Additionally, if it was more flexible with the configuration it would be good. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)

Sachin JungKarki

Our customers don't pay for licenses. As a service provider, we cover the costs. They only pay for the services they use. The subscription fee is on an annual basis. We always use annual. There are no extra costs in addition to the standard licensing fees. [\[Full Review\]](#)



Brook Debebe Hailu

The pricing is expensive. Compared to its competitors, Cisco servers are more expensive. The price of Cisco servers can vary depending on the configuration, the number of servers being purchased, the amount of RAM, and the storage capacity. [\[Full Review\]](#)



Mudhad Noman

The pricing in Yemen should be lower. It's high for the region. For Yemen, generally, some manufacturers can't apply the same discounts they give to other countries due to the war and the economic situation. Yet we need more discounts. [\[Full Review\]](#)



Kerithe Ream

The price for Cisco is a bit higher than its competitors. We paid 40k for one server. We paid 50% at the time of the purchase order and 50% after the product was delivered. [\[Full Review\]](#)



DularBharati ya

The prices of Cisco UCS C-Series Rack Servers are higher compared to the competition. When we try and sell against the competition, then it becomes quite difficult to sell [\[Full Review\]](#)



Ehsan Emad

The server itself isn't costly at all, but the CPU and the RAM can be pretty expensive. You can buy a UCS for \$2,000, but the RAM and CPU can cost up to \$80,000. The most expensive asset is the intel processor, but it depends on how many cores you want and the technology you want to use on your CPU, like Hyper-V, etc. [\[Full Review\]](#)



Oracle SPARC Servers

[See 6 reviews >>](#)

Overview

Oracle's SPARC S7, T7, and M7 Servers with always-on memory intrusion protection and comprehensive data encryption secure data with no performance penalty. Security in silicon features and Oracle Solaris protect data in memory from unauthorized access and stop malware before it gets in.

SAMPLE CUSTOMERS

University Hospitals Leuven, B&H Photo, Tuscon Electric Power, IS Nordic, Siemens

TOP COMPARISONS

IBM Power Systems vs. Oracle SPARC Servers ... Compared 38% of the time [\[See comparison\]](#)

Intel Server System vs. Oracle SPARC Servers ... Compared 36% of the time [\[See comparison\]](#)

Dell PowerEdge Rack Servers vs. Oracle SPARC Servers ... Compared 11% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Financial Services Firm ... 24%

Computer Software Company ... 17%

Government ... 9%

Manufacturing Company ... 6%

VISITORS READING REVIEWS *

COMPANY SIZE

1-200 Employees ... 57%

201-1000 Employees ... 29%

1001+ Employees ... 14%

COMPANY SIZE

1-200 Employees ... 23%

201-1000 Employees ... 13%

1001+ Employees ... 64%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)


Abdul-Salam

The operating system is rock solid and the best I have ever used. You can perform nearly 100% of things online without needing downtime. The solution has rich virtualization features that allow you to host many VMs on one box. The processors are very powerful. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


Awa Sri

Oracle products are usually fine-tuned with the software of other Oracle products, like Oracle WebLogic Server Services, Oracle Database, and Oracle Core Banking Software and Solutions, as all the aforementioned products work very well with Oracle SPARC Servers. Oracle SPARC Servers should be fine-tuned well enough to work with the other servers and software products in the market, as it is an area where Oracle SPARC Servers lack. The most challenging part concerning the product arises from the pricing model of the solution. Most of my company's cli... [\[Full Review\]](#)



Abdul-Salam

Oracle doesn't have a good roadmap for the solution because they are moving to the x86 platform. Oracle is focusing on the cloud platform with a PCA and standard x86 architecture. Linux is their other OS and is mostly in the cloud. We don't see much development happening on Solaris even though it came as an acquisition from Sun Microsystems. Eventually, the solution and its platform will die because there has been no new development on the Solaris end and we haven't seen new servers in the last five years. At this point, we are pretty sure there is ... [\[Full Review\]](#)



Rakesh Ojha

They have declared the end of life of the hardware, so they should ensure they have support for existing customers. There is a feature in IBM that I would like to see here. IBM has a feature where you can have a system backup, so whenever you want to restore, you just put in the backup, give it a phone, and it will restore. [\[Full Review\]](#)

Khurshid
AlamSheikh

There is a huge difference between the M Series and the T Series. They need some sort of modeling because IBM has different types of models. If I'm calculating the M Series, there is a large amount of core. The T Series has less, but there is no actual model we can fix up. When we actually require some support, we are going for the logical partitioning for two. At that point, when you are calculating processing power and memory, IBM offers more choices, whereas it's actually very difficult for Oracle. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)


Awa Sri

My company makes yearly payments toward the licensing costs attached to the solution. My company's clients, who have paid for the licensing costs attached to the solution, have also engaged with some third parties to receive technical support for the product. [\[Full Review\]](#)

Nout
Gemmeke

The price is expensive however there is better hardware installed for the price. The application running on it is very important to us and this makes the price worth it. [\[Full Review\]](#)



Dell PowerEdge FX

[See 8 reviews >>](#)

Overview

The PowerEdge FX converged architecture gives enterprises the flexibility to tailor their IT infrastructure to specific workloads, and the ability to scale and adapt that infrastructure as needs change over time. PowerEdge FX helps deliver the agility, flexibility and secure foundation that businesses need to simplify operations and increase business results.

SAMPLE CUSTOMERS

Tracewell, Govers, AXA ASSISTANCE ITALIA

TOP COMPARISONS

HPE Apollo vs. Dell PowerEdge FX ... Compared 47% of the time [\[See comparison\]](#)

Lenovo ThinkSystem Rack Servers vs. Dell PowerEdge FX ... Compared 15% of the time [\[See comparison\]](#)

Oracle SPARC Servers vs. Dell PowerEdge FX ... Compared 11% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 15%

Manufacturing Company ... 15%

Financial Services Firm ... 8%

Comms Service Provider ... 8%

VISITORS READING REVIEWS *

COMPANY SIZE

1-200 Employees ... 64%

201-1000 Employees ... 27%

1001+ Employees ... 9%

COMPANY SIZE

1-200 Employees ... 24%

201-1000 Employees ... 13%

1001+ Employees ... 63%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)
Daniel
Sjoberg

It is hard to describe the valuable features of the product since it has been six months since I stopped using the tool. The product was just used as a basic or general type of server in our company. [\[Full Review\]](#)

MarcGaetho
fs

The product seamlessly integrates with the storage portfolio. It's easy. The performance and energy savings are very good. We can find the mean time between failures. [\[Full Review\]](#)



Hawi Nadew

The most valuable feature of the solution is that it is a fast tool that is currently considered to be a leading product according to Gartner Magic Quadrant among other vendors, like IBM and other main vendors in the market. Dell PowerEdge FX is one of the leading solutions in the market, with high scalability, performance, and ease of management, and it offers the latest generation products. Dell is one of the leading companies that provide rack servers in Ethiopia. [\[Full Review\]](#)



AnilKale

My opinion on PowerEdge is that the power efficiency is very good and nice. The failure rate is zero. I don't have any issues. I have not faced any issues, actually, in the last two to five years. [\[Full Review\]](#)



AthumanJuma

The product is good, and we are satisfied. The remote management is great. The remote management interface is called iDRAC Integrated Dell RemotePowerEdge. It can virtualize IT with VMware, which is good. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


Hawi Nadew

For now, there are no improvements I want in the tool from my side because My company is considered a titanium-level partner of Dell. My company is a titanium-level partner of Dell because we like not only Dell's different storage services but also Dell's other technologies that come under the portfolio of products offered under Dell EMC, which we sell. I don't have any other comments to add about the product's latest generation, especially since Dell PowerEdge offers 16th-generation servers. My company offers Dell solutions to our clients, and if t... [\[Full Review\]](#)



AnilKale

I want the pricing of the commercial parts improve. I don't have any technical issues, but I would like to see the commercial side improve as compared to all other OEMs. [\[Full Review\]](#)



AthumanJuma

They could improve from a manufacturing perspective and not the product itself. For example, the lead time in production is not the best, and it currently takes more than eight weeks to receive goods when we place an order. It might be because of the shortage of silicon chips. It would be great for customers if they could reduce the lead time. It does not have a graphic processing unit card, and they should add it. [\[Full Review\]](#)



Joseph James

The positioning of the power supply is not ideal. Both of them are on the same side, so you need to untie the cabling when you're installing the server. Another thing is storage separation. The storage can only be used by a particular server blade. I want the ability to use a storage unit for more than one server. [\[Full Review\]](#)

**PRICING, SETUP COST AND LICENSING**[See more Pricing, Setup Cost And Licensing >>](#)

MarcGaetho fs

There are several models within Dell. We can have a pay-as-you-use model or choose to pay for everything upfront. The licensing model depends on the product we need. The vendor doesn't have many licenses in storage provisioning. There are a few features that we can access if we buy a license for it. It's fairly straightforward. [\[Full Review\]](#)



Hawi Nadew

Payments are generally made towards the perpetual-based licensing costs attached to the solution, but people can also opt for subscription-based licenses. [\[Full Review\]](#)



James Mwaura

The price of Dell PowerEdge FX is affordable, and when compared to other solutions, such as Lenovo and HPE it is less expensive. There are any extra costs other than the standard solution. [\[Full Review\]](#)



AthumanJuma

The price is negotiable based on the server specification. You need to specify what you need in terms of RAM storage and processor. But when you compare it with other solutions, the pricing is good. I rate the pricing a ten out of ten, with ten being competitive. [\[Full Review\]](#)



Joseph James

PowerEdge costs between \$50,000 to \$65,000 per unit. It depends on the number of server blades you have in there. That's total const including CPU, memory, storage, etc. Maintenance cost is around 8 percent of the total value. I think the clients are backing out because of the price. There are cheaper competing solutions. Also, they don't understand the use case. They don't know the use case of the products. There isn't enough effort by Dell to raise awareness about the product in the region. [\[Full Review\]](#)

 **HPE Apollo** [See 5 reviews >>](#)

Overview

The HPE Apollo high-density server family is built for the highest levels of performance and efficiency. They are rack-scale compute, storage, networking, power and cooling – massively scale-up and scale-out – solutions for your big data analytics, object storage and high-performance computing (HPC) workloads. From water-cooling that's 1,000X more efficient than air, to "right-sized scaling" with 2X the compute density for workgroup and private cloud workloads, the HPE Apollo line is a dense, high-performance, tiered approach for organisations of all sizes.

SAMPLE CUSTOMERS

Weta Digital

TOP COMPARISONS

HPE ProLiant DL Servers vs. HPE Apollo ... Compared 35% of the time [\[See comparison\]](#)

Dell PowerEdge Rack Servers vs. HPE Apollo ... Compared 22% of the time [\[See comparison\]](#)

Dell PowerEdge FX vs. HPE Apollo ... Compared 8% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 17%
Government ... 12%
Financial Services Firm ... 9%
Manufacturing Company ... 8%

COMPANY SIZE

1-200 Employees ... 25%
201-1000 Employees ... 16%
1001+ Employees ... 60%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Comms Service Provider ... 17%
Manufacturing Company ... 17%
Computer Software Company ... 17%
University ... 17%

COMPANY SIZE

1-200 Employees ... 32%
201-1000 Employees ... 18%
1001+ Employees ... 50%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.

HPE Apollo

Continued from previous page

Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)



Gayan
Senadheera

The higher capacities stand out. HPE Apollo allows for high capacities compared to other solutions like the DM3000 series, which may have certain capacity limitations. With HPE Apollo, we can propose configurations with many hard drives, making it suitable for large storage needs. So for the largest capacity requirements, we usually propose Apollo. Therefore, HPE Apollo offers higher capacities, making it suitable for storage-intensive applications. The solution is indeed very easy to use and customizable. We haven't faced any issues when configuri... [\[Full Review\]](#)



Irfan
Basharat

HPE Apollo's support is the most valuable feature. It supports more than one hundred twenty teraflops of precision computing and it supports a GPU in a single JSA. When it comes to GPU-to-GPU communication and NV Links it works well. Everything is related to artificial intelligence or deep learning. This is the best solution as of right now. There are different types of servers, and there are different types of technology. HPE Apollo is good to go with the current requirement of any Telco sector, GPU-intensive workload, or deep learning environment. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)



Aruna
Udawatte

HPE Apollo's after-sales support and technical support should be improved. The solution should provide fast delivery when it comes to replacing a particular product that is under warranty. [\[Full Review\]](#)



Gayan
Senadheera

In terms of improvement, we could benefit from some training. If there could be some training for our team, we would be better equipped to promote and support HPE Apollo. Currently, we haven't received any specific training related to HPE Apollo throughout my career. If HPE Apollo provides training, we can share the knowledge with our partners, which could lead to more opportunities for HPE Apollo in the market. Deal protection and other support measures would also be beneficial, as they could help us achieve better results in this market. [\[Full Review\]](#)



Irfan
Basharat

The solution's deployment, security, and scalability need improvement. In addition, a while back, we needed to get a GPU-intensive HPC workload. Our client still needed to accept HPE Apollo because it does not support HPC and that was what the client required. Also, one of our telco customers has said that after the installation of HPE Apollo for their telco requirement, the generically written things regarding the performance were not approved in their operational environment. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)



Aruna
Udawatte

We need to pay for a yearly license for HPE Apollo. Compared to other products, HPE Apollo is not an expensive solution. There are no extra costs in addition to the standard licensing fees. [\[Full Review\]](#)



Irfan
Basharat

It is an expensive solution but it is worth the money. The standard licensing cost is for the GPU and the features that someone is using. There are additional charges but they depend on the solution. [\[Full Review\]](#)



Intel Server System

[See 1 review >>](#)

Overview

Storage is simple with the Intel Storage System JBOD2000 family, a 2U form factor system with support for twelve 3.5" LFF or twenty-four 2.5" SFF drives with a single or multi-cable connectivity. The JBOD2000 family includes redundant, hot-swap fans and the option for redundant, hot-swap power supplies. The JBOD2000S2 products support 6Gb/s SAS/SATA connectivity via industry-standard SFF-8088 connectors with the latest JBOD2000S3 version supports up to 12 Gb/s SAS connectivity via industry standard SFF-8644 connectors. All these JBOD offerings are designed to provide highly available and easily expandable storage for Intel servers at an affordable price point.

SAMPLE CUSTOMERS

Emerson, Baosight, Pentamaster

TOP COMPARISONS

IBM Power Systems vs. Intel Server System ... Compared 65% of the time [\[See comparison\]](#)

Oracle SPARC Servers vs. Intel Server System ... Compared 26% of the time [\[See comparison\]](#)

Dell PowerEdge Rack Servers vs. Intel Server System ... Compared 4% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Financial Services Firm ... 17%

Computer Software Company ... 15%

Manufacturing Company ... 9%

Government ... 8%

COMPANY SIZE

1-200 Employees ... 21%

201-1000 Employees ... 15%

1001+ Employees ... 65%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)



Sami
Abughosh

The most valuable feature of the solution stems from the fact that it is more stable than AMD for VMware. Intel Server System has a good track record for the last 20 years. Multithreading and caching are areas where improvements keep increasing. If you look at the last four years, you will see a big difference when it comes to the area concerning processors. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)



Sami
Abughosh

When you have an Intel Server System, the prices may be much higher since it is a different processor, making the solution's pricing part one of its shortcomings where improvements are required. [\[Full Review\]](#)



Dell PowerEdge XE Servers

[See 7 reviews >>](#)

Overview

Our newest addition to the Dell EMC PowerEdge family, PowerEdge XE servers are purpose-built for complex, harsh and compute-intensive workloads.

SAMPLE CUSTOMERS

Epsilon, ROZETTA CORP, JIGUANG, RACKSPACE, NEW BELGIUM BREWING

TOP COMPARISONS

HPE Apollo vs. Dell PowerEdge XE Servers ... Compared 41% of the time [\[See comparison\]](#)

Dell XR2 Rugged Server vs. Dell PowerEdge XE Servers ... Compared 24% of the time [\[See comparison\]](#)

Lenovo ThinkSystem Rack Servers vs. Dell PowerEdge XE Servers ... Compared 17% of the time [\[See comparison\]](#)

REVIEWERS *

TOP INDUSTRIES

Computer Software Company ... 17%
Manufacturing Company ... 17%
Financial Services Firm ... 11%
Media Company ... 7%

COMPANY SIZE

1-200 Employees ... 27%
201-1000 Employees ... 11%
1001+ Employees ... 63%

VISITORS READING REVIEWS *

TOP INDUSTRIES

Computer Software Company ... 57%
Financial Services Firm ... 14%
Manufacturing Company ... 14%
Non Tech Company ... 14%

COMPANY SIZE

1-200 Employees ... 20%
201-1000 Employees ... 50%
1001+ Employees ... 30%

* Data is based on the aggregate profiles of PeerSpot Users reviewing and researching this solution.



Top Reviews by Topic



VALUABLE FEATURES

[See more Valuable Features >>](#)


Kumar
SAJITH

Many people use endpoint security solutions, like CloudStrike, et cetera. It's good for multi-versioning and assigning solutions. You can add, let's say, McAfee, direct to the solution also and the back servers and firewalls. Or you can have Palo Alto or FortiGate likewise for firewall solutions. It integrates well with many solutions. In general, it works well. We haven't had issues. The setup is straightforward. The solution is stable. It is scalable. [\[Full Review\]](#)



ROOM FOR IMPROVEMENT

[See more Room For Improvement >>](#)


Muzammil
Nasim

It should be easier to extend PowerEdge XE servers. We haven't architected them with an eye toward scalability. They have a fixed number of slots for hard drives, which is enough for our present use case. However, we would have more options if we could extend that. We could deploy the servers in a broader range of use cases with different requirements. It's fine for our current deployment with only a few thousand users. We're exploring other solutions like such as VxRail or PowerFlex for larger public-facing use cases. [\[Full Review\]](#)



PRICING, SETUP COST AND LICENSING

[See more Pricing, Setup Cost And Licensing >>](#)


FirasFtirich

The pricing depends on the project. The pricing model is quite competitive, and you can choose accordingly. For most products, it was competitive. But that depends on the product. For example, every contractor will have their own requirements. So, it depends on the category. Storage, servers, networking, etcetera. The commercial team would contact the client for the final price. This server doesn't need a license. It's a one-time purchase. When it comes to additional costs, the client will pay for the hardware and the support for the duration they n... [\[Full Review\]](#)



Kumar
SAJITH

The pricing is okay. However, it could always be less. It might be a bit expensive. The license cost depends on the region. We are working for the regional providers. I cannot say what the exact cost is. I'd rate the affordability at a seven out of ten. [\[Full Review\]](#)

About this report

This report is comprised of a list of enterprise level Rack Servers vendors. We have also included several real user reviews posted on peerspot.com. The reviewers of these products have been validated as real users based on their LinkedIn profiles to ensure that they provide reliable opinions and not those of product vendors.

About PeerSpot

The Internet has completely changed the way we make buying decisions. We now use ratings and review sites to see what other real users think before we buy electronics, book a hotel, visit a doctor or choose a restaurant. But in the world of enterprise technology, most of the information online and in your inbox comes from vendors but what you really want is objective information from other users.

We created PeerSpot to provide technology professionals like you with a community platform to share information about enterprise software, applications, hardware and services.

We commit to offering user-contributed information that is valuable, objective and relevant. We protect your privacy by providing an environment where you can post anonymously and freely express your views. As a result, the community becomes a valuable resource, ensuring you get access to the right information and connect to the right people, whenever you need it.

PeerSpot helps tech professionals by providing:

- A list of enterprise level Rack Servers vendors
- A sample of real user reviews from tech professionals
- Specific information to help you choose the best vendor for your needs

Use PeerSpot to:

- Read and post reviews of vendors and products
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- Validate vendor claims
- Exchange tips for getting the best deals with vendors

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