

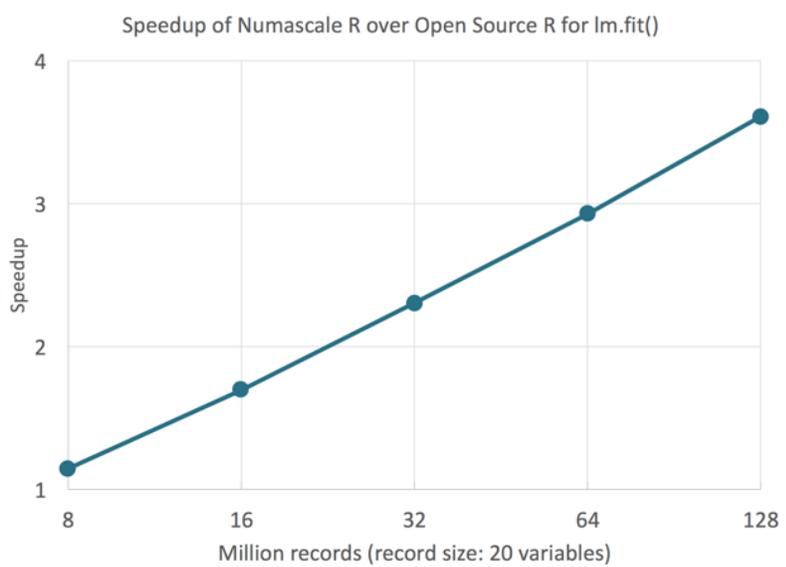
Analyze bigger data with higher precision using Numascale R Analytics Appliance

Data scientists and power users can now run complex R analytics at high throughput rates eliminating the need to recode R algorithms to Python or C++.



R is the world's most popular statistical programming language and environment. It was originally developed by statisticians for statisticians in the 1990s, but its usage has spread into all kinds of data processing and manipulation, and today has a worldwide user base of more than 2 million people. It has a high-level, user-friendly interface that allows analysts to address their problems very quickly and efficiently, it's available as free open-source code and free tools, and it runs practically everywhere, encouraging even more people to jump onto this accelerating train.

Due to its versatility, extendibility, connectivity, availability and low user threshold, R has shown to be very successful in proof-of-concepts and getting started analyzing big data problems quickly. And for a lot of cases, a standard implementation of R running on a standard platform will also be sufficient for solving the problem at hand. But since R is an interpreted language, it is often just used for prototyping before moving over to a compiled language, like C++ or Python, to speed up the analysis for production purposes. Another challenge is that datasets for big data analytics are growing in size, and it becomes more and more likely that they will eventually grow out of the standard platform due to limitations in memory and cores. At this point, the problem will have to be broken down into smaller pieces for processing, adding to the labor and complexity.



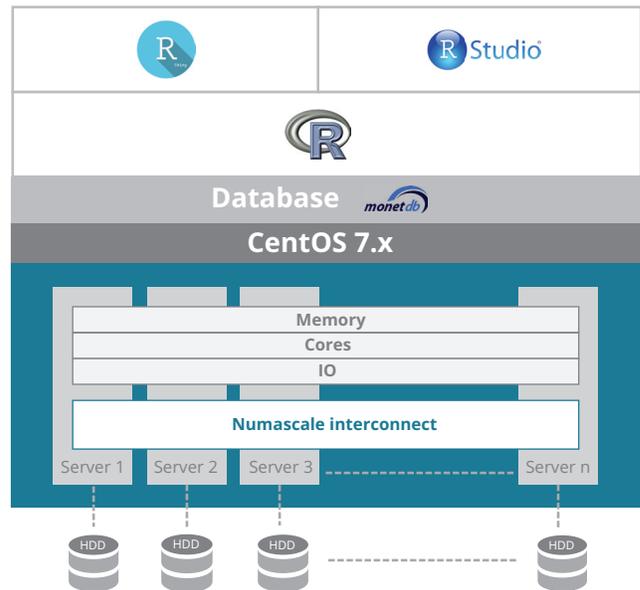
By resolving these challenges, time-to-delivery can be significantly reduced and resources freed up for addressing other problems more quickly, providing for increased revenues and reduced costs. And this is indeed the goal of the Numascale R Analytics Appliance.

Optimized performance and unique scalability

At Numascale, our experienced data scientists and engineers are working continuously on improving the performance of the open source R distribution, as well as its underlying libraries, drivers and HW in real-world projects. We have already achieved significant improvements in execution speed, and Numascale's unique hardware and software platform ensures that future releases will see similar performance improvements.

Numascale R Analytics is designed for running your data analytics workload in-memory, giving a significant speed-up compared to traditional disk-based Hadoop clusters and data warehouses. Through Numascale's unique shared memory interconnect technology, the **Numascale R Analytics Appliance** can scale from 1TB to 18TB in one single Instance of the OS.

Start with a system size that will cover your problem at hand, and simply expand your system as your problem grows! Never run out of memory again for your R computations!



Configurations

All Numascale R Analytics Appliances comes with CentOS, MonetDB, open source R, R Studio and Shiny preinstalled, configured and optimized for large shared memory platforms. The software stack is also available for trial in the cloud.

Numascale R Analytics Appliance Model	RAM (TB)	CPU cores	SSD storage (TB)
NC1	1.1	72	5.7
NC2	2.3	144	11.4
NC4	4.6	288	22.8
NC8	9.2	576	45.6
NC16	18.4	1152	91.2

Get in touch with Numascale for more information, a trial or a webinar!



ABOUT NUMASCALE

Numascale provides turnkey systems for the Big Data Analytics market. Numascale combines optimized and maintained open source software with their unique shared memory architecture to deliver solutions that scale extremely well — there is virtually no limit to the number of cores and memory size that Numascale can support. The combined software and hardware solution provides an unmatched performance at a very attractive price point. Numascale is Bigger Data Analytics.

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TECHNOLOGY PARTNERS

