



SafePeak Case Study: Large Microsoft SharePoint with SafePeak

The benchmark was conducted in an Enterprise class organization (>20,000 employees), in the software development business unit, unit that widely uses Microsoft SharePoint (MOSS) for multiple mission-critical applications in the organization.

SafePeak was installed in pre-production environment for testing and benchmarking. After intensive evaluation and testing by QA and development teams, the unit performed a benchmark to receive objective results of SafePeak ability to accelerate response time on SharePoint applications and upgrade scalability of the existing database-storage infrastructure to handle growth and peaks of work load.

Benchmark description:

Date: 26/04/2011

2 different Microsoft SharePoint 2007 applications.

17 different pages.

50 parallel users all executing pages in random way.

Benchmark load testing tool: Visual Studio Team System Load Test

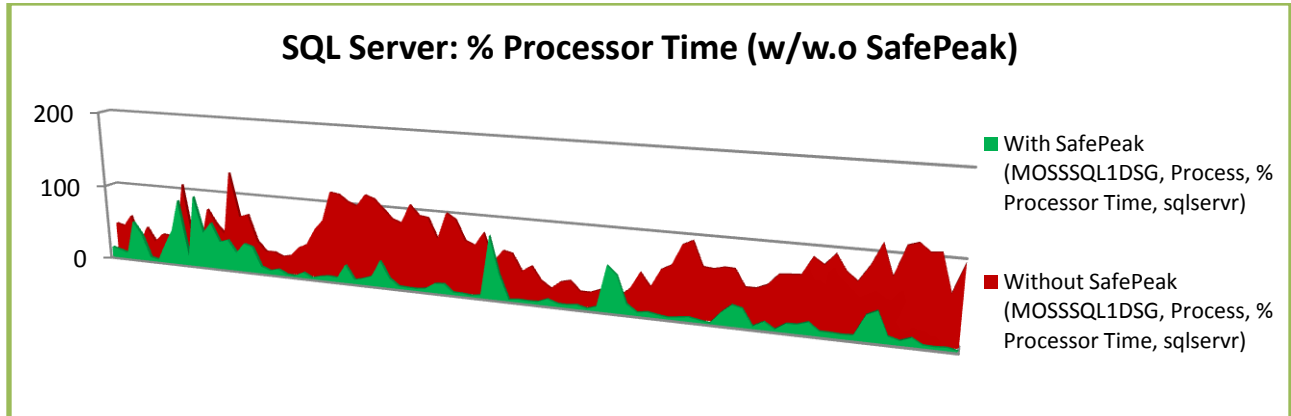
SafePeak installed on: Virtual machine, 4 cores 4GB RAM.

SafePeak version: 1.3.7

Benchmark results

SQL Server (database) throughput metrics

CPU of SQL Server process on the database server (SafePeak enabled/disabled)

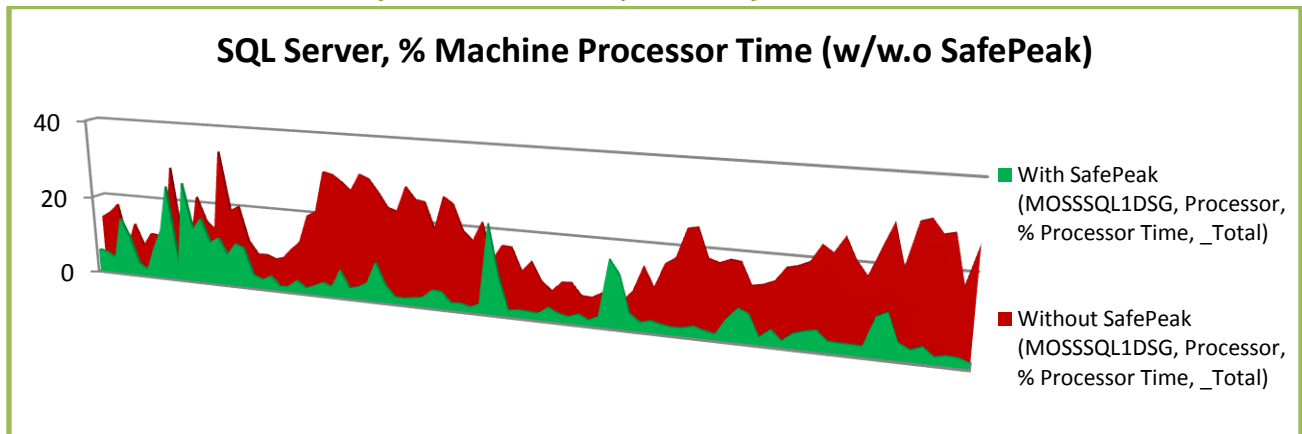


This chart shows the % of Processor Time of the SQL Server process.

The chart in red color is the recording before SafePeak was integrated. The server shows high load taking significant portions of the server CPU.

The chart in green color is the recording after SafePeak was integrated and activated. CPU consumption was reduced on average by 75%, upgrading server capability to handle much higher load.

CPU of the database server (SafePeak enabled/disabled)

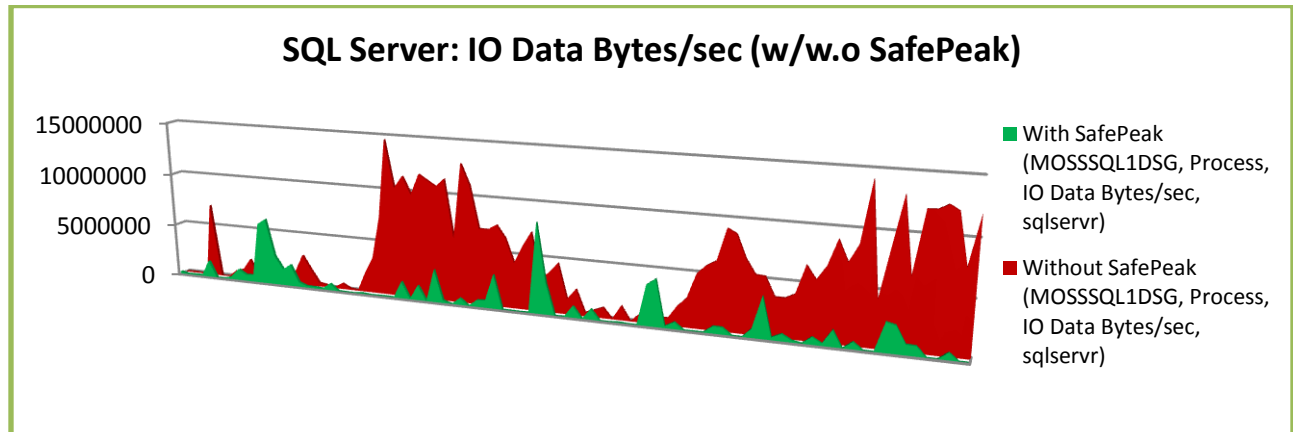


This chart shows the % of Processor Time of the SQL Server Machine.

The chart in red color is the recording before SafePeak was integrated. The server shows high load taking significant portions of the server CPU.

The chart in green color is the recording after SafePeak was integrated and activated. CPU consumption was reduced on average by 71%, upgrading server capability to handle much higher load.

Database IO Data Bytes/sec (SafePeak enabled/disabled)



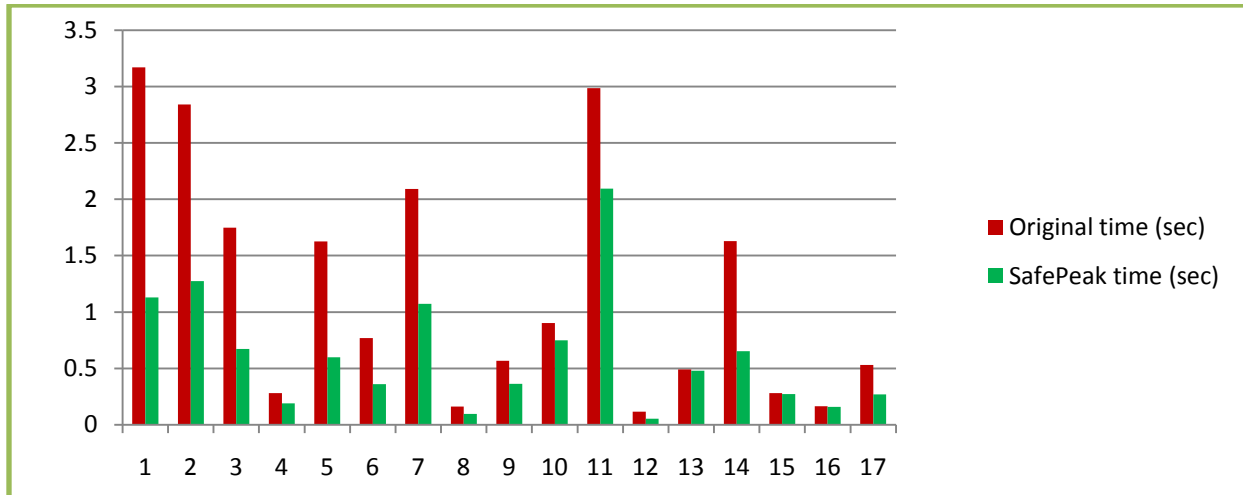
This chart shows the % of IO Data Bytes/second of the SQL Server process. This performance counter describes how much the machine (here the SQL Server) is using the storage devices to access data. Database servers have very high dependency on the speed and throughput of the IO. Specifically Microsoft SharePoint platform saves all data, including files (doc, excel, pdf, etc) in the SQL Server database, thus increase the IO consumption/load significantly.

The chart in red color is the recording before SafePeak was integrated. It shows high IO load, and especially high peaks or spikes of load.

The chart in green color is the recording after SafePeak was integrated and activated. IO consumption was reduced on average by 83%, upgrading significantly the server infrastructure capability to handle much higher load and effective performance of average IO access speed.

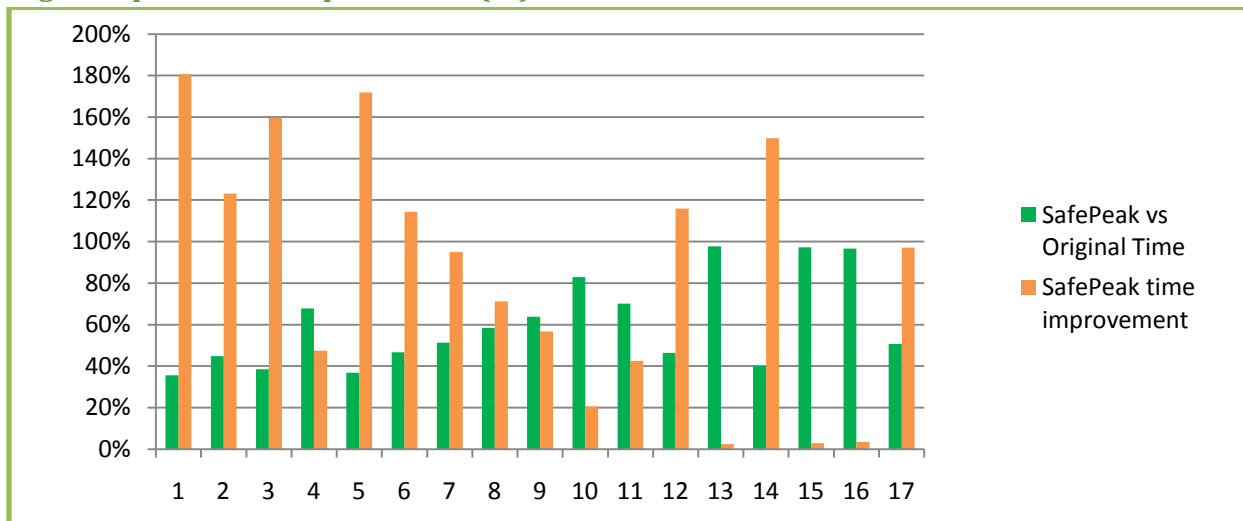
Application performance metrics

Average pages response time (seconds)



The chart in red shows the original application response time.
 The chart in green shows the new application response time, after SafePeak was enabled.

Pages response time improvement (%)

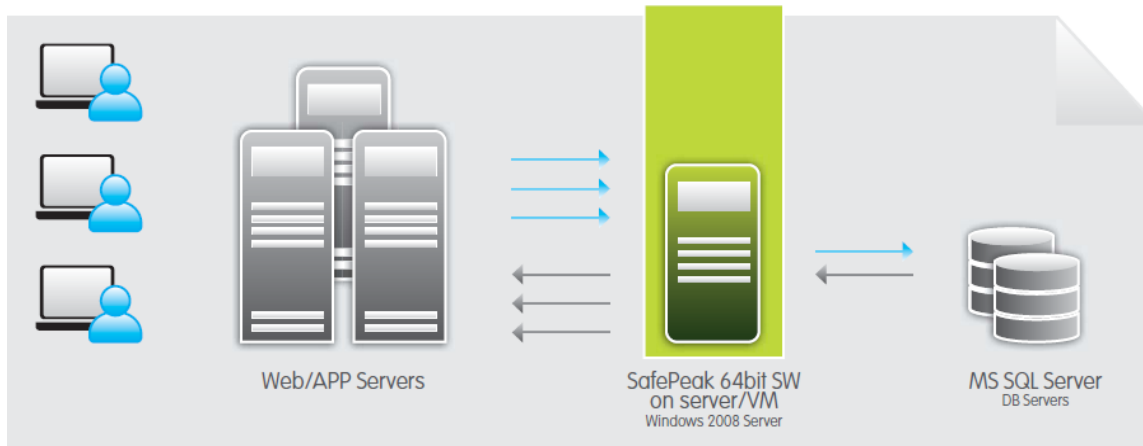


The chart in green shows the remaining response time percent (vs the original response time) for application SharePoint pages, after SafePeak was enabled.
 The chart in orange shows the improvement percent of application response time for application SharePoint pages, after SafePeak was enabled.

About SafePeak

SafePeak is a unique Plug and Play solution for immediate performance acceleration of databases and applications and datacenter efficiency and scalability.

SafePeak performs an automated, self-adaptive, dynamic caching of result sets for queries and procedures requested by mission critical applications. SafePeak accelerates the data access to speed below 1ms for any query and boosts scalability of existing infrastructure by factor of 10.



SafePeak is deployed in any production environment within minutes.

The only automated dynamic caching solution requiring zero application, database or data changes.

More info you can find here: www.safepeak.com/downloadtrial