

---

# Success story

**Abstracta Performed  
Stress Tests for the  
Largest US Retail  
Bookseller's System,  
Reducing Response  
Times by 46%**

---

**GeneXus™ USA**

# GeneXus™ USA



## GeneXus USA Case Study

GeneXus USA is a leading web and mobile application development company based in Chicago, IL and the official distributor of GeneXus in the US.

GeneXus is the main product developed by Artech, one of the largest IT companies in Latin America. Headquartered in Uruguay, it was founded in 1988 and has since opened offices in the United States, Mexico and Brazil. It also has a presence in more than 45 countries through its network of partners and distributors and has more than 8500 clients worldwide.



+45 countries



+8500 clients



## The Problem

The largest retail bookseller in the United States commissioned GeneXus USA & Abstracta to stress test one of its internal systems that was undergoing infrastructure changes.





## Our Solution

Abstracta conducted stress tests on the system, focusing on identifying performance deficiencies in the application. We installed the test software, created test scripts, executed test scenarios and analyzed the test results for changes.



Response time



## Tools

We used OpenSTA as the HTTP protocol tool to simulate transactions. For monitoring, we used the following tools: Windows Performance Monitor, IBM iSeries Navigator, JMX and DbMon.

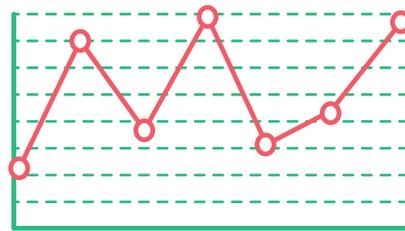


## A+ Results

During the stress test, we implemented changes and improvements to the application. We were able to prove that, using the new infrastructure, the application could successfully handle the peak loads experienced during the weekly “rush hours”. We then reconfigured the new equipment so as to obtain the optimal possible performance from the application.

We improved critical transaction response times in the three main test cases.

We managed to reduce the time to complete the product shipping process from 763 milliseconds to 432 milliseconds at 50% of the estimated maximum traffic load. On average, test case response times were reduced by 46% across the board. Furthermore, our stress test results provided documentation and recommendations for additional application performance enhancements.



“As a software development company we define ourselves as our clients’ technology partner. As such it is great for us to be able to count Abstracta as a partner for testing needs. They share our same focus, dedication and are very knowledgeable about testing needs. They are great to work with and they adapt very easily to meet our customers need the same way we do it. Great to work with, we definitely recommend them.”

—  
VERONICA BUITRON, CTO TANGO CODE LLC



# Looking to improve the performance and quality of your systems?

Contact us today

abstracta 

[abstracta.us](https://abstracta.us)

[in](#) [🐦](#) [f](#)