

“With dynaTrace, testers can run fewer, more productive tests... those tests return better results to development, enabling them to focus more on what they enjoy – creating new features and functionality – rather than chasing bugs.”

“Since I can send them the PurePath of the specific transaction, they can view it immediately or later when they have time – I don’t have to interrupt them to show them what I had found. This way they can stay focused on writing great code, and know that the root-cause of the performance issue is waiting for them when they need it.”

“With dynaTrace enabling asynchronous review of the code via the PurePath, we eliminated this need where one team member was actually idle and waiting, instantly doubling productivity.”

“Because dynaTrace is on for the duration of a test, it eliminates the need to rerun certain tests to capture additional log and tracing information that developers put into the code. This helps to shorten test cycles and frees up resources, both in terms of testers and hardware, improving productivity.”

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running fewer tests during debugging means they have more time to run more productive tests during performance/regression testing and capacity planning phases,” said Novell QA Engineer Lucy Monahan. “And all those tests return better results to development, enabling them to focus more on what they enjoy – creating new features and functionality – rather than chasing bugs.”

“We’re a global company, with developers and technicians all over – in Europe, the East and West Coasts of the US, India, even Australia,” explains Demastrie. “With dynaTrace, we don’t have to worry about where people are located; we can easily communicate issues, even if they’re 5,000 miles and ten time-zones away.”

Raise Productivity: With dynaTrace’s PurePath technology [preserving individual transactions for later review](#), problems can be analyzed whenever the team member has time, rather than when they are discovered. “Since I can send them the PurePath of the specific transaction, they can view it immediately or later when they have time – I don’t have to interrupt them to show them what I had found,” said Monahan. “This way they can stay focused on writing great code, and know that the root-cause of the performance issue is waiting for them when they need it.”

Capturing and analyzing the data is now also split between Testers and Developers. Before using dynaTrace, Novell needed two people sitting in on every problem: the tester that drove the test to induce the problem, and the developer that then analyzed it, with both working on the same test machine. “With dynaTrace enabling asynchronous review of the code via the PurePath,” said Monahan “we eliminated this need where one team member was actually idle and waiting, instantly doubling productivity.”

dynaTrace’s ability to run under load with virtually no overhead also frees up resources for more productive uses by automating away labor-intensive manual tasks. “Because dynaTrace is on for the duration of a test, it eliminates the need to rerun certain tests to capture additional log and tracing information that developers put into the code,” said Monahan. “This helps to shorten test cycles and frees up resources, both in terms of testers and hardware, improving productivity.”

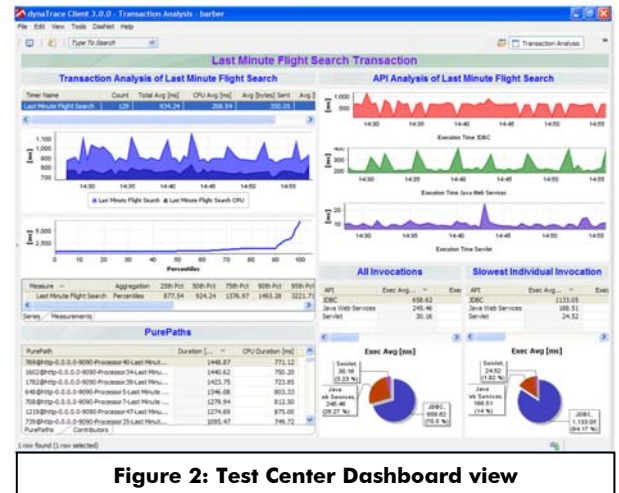


Figure 2: Test Center Dashboard view

Improve Lifecycle Collaboration: After issues have been diagnosed and resolved by development, Novell’s QA engineers use dynaTrace’s [charting and diffing](#) features to verify that code changes actually deliver the intended improvements. This feedback is valuable to developers for verification, strengthening their confidence in bug fixes. It also helps to ensure that bugs are killed as [early as possible in the lifecycle](#), further reducing costs.

“From a tester’s perspective, dynaTrace is really empowering technology,” said Monahan. “It’s been a real career-enhancer for me, since now I can provide developers with results that get them immediately to the root-cause of an issue.”

Case in point was a memory leak that caused the JVM to hit an OutOfMemory condition. It turned out that the memory leak was exposed as a result of switching to a RESTful service infrastructure. The QA Engineer was able to capture the necessary memory information and pass it on to the developers who were able to [fix the problem](#) right away – with only one round trip needed to complete the fix. In this way, dynaTrace helps simplify [memory analysis](#), particularly in finding memory leaks.

“What’s nice is that I can even send a PurePath to an application engineer in the field who doesn’t use dynaTrace, and with the free viewer they can analyze the debug data themselves,” said Monahan. “You have the root cause right there in the PurePath.”

“We always knew the software we shipped was high-quality,” concluded Demastrie, “but now we can prove it, line-by-line.”