



Find Problems During Development. Get to Root Cause Immediately. Automate Performance Management.

dynaTrace Development Edition

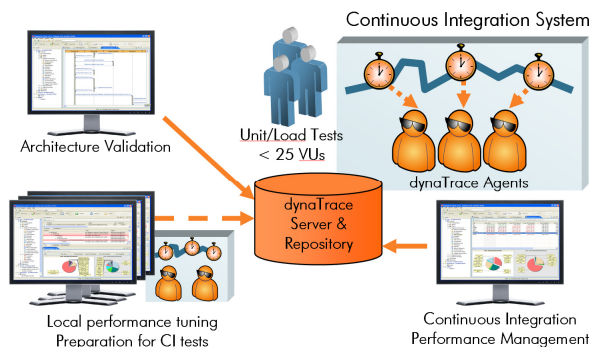
dynaTrace Development Edition is an enterprise-class Java/.NET performance engineering solution for development teams to proactively tune application performance right on the developer's desktop, to review and validate software architectures early-on, and to manage application performance during continuous integration. Using its patent-pending PurePath transaction tracing and runtime modeling technology, dynaTrace provides in-depth visibility into the code-level performance and dynamic execution behavior of complex distributed applications. dynaTrace further integrates with build scripts/runtimes such as Ant, NAnt, MSBuild to reliably detect performance regression issues on component-level with every new software build and with leading IDEs to accelerate final problem resolution. With this edition, developers can now make performance management a strategic component of the development process, thus identifying most performance issues when they are exponentially less expensive to resolve than in test or production, and speeding time to market of development projects.

PurePath Technology: Go beyond traditional code-profiling with code-level transaction tracing

The core of dynaTrace is its award winning, patent-pending PurePath Technology, which traces and visualizes executions of Java/.NET application transactions at code-level and also integrates and extends your existing unit test and continuous integration frameworks. This way you can:

- Quickly review, validate and runtime model application architectures and their dynamic behavior
- Proactively tune your applications for high performance and efficiently diagnose performance bottlenecks
- Automatically document & isolate performance regression issues during continuous integration testing, and reduce problem diagnostics and resolution times to minutes.

Thus, dynaTrace enables R&D to implement APM strategically into the development process, whether agile or classic, to care about performance proactively and reliably.



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Tracing individual transactions

dynaTrace goes well beyond just recording average values and aggregated call trees. Instead it records the precise execution of Java/.NET transactions, uncovering all outliers. No extraneous information is included - only factors influencing the performance of a specific transaction are presented.

Deep code-level visibility in real-time

dynaTrace provides real-time visibility into code-level transaction performance from every level and angle simplifying data interpretation. It goes far beyond just recording pure performance metrics (e.g., response-times, CPU usage). To precisely identify a problem's root cause, dynaTrace also captures contextual information (e.g., method arguments, SQL bind values, sync events, exceptions/logs).

End-to-end across distributed and heterogeneous tiers

PurePath Technology traces transactions end-to-end, allowing you to decompose them at any needed level across multiple servers/tiers, whether Java or .NET, starting at rich clients.

Low overhead, small footprint on target servers

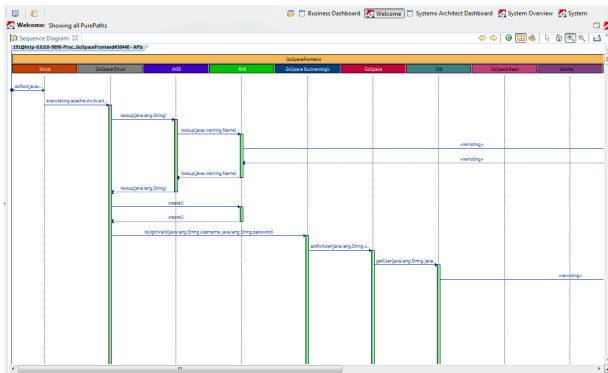
dynaTrace only instruments those code segments that contribute to application performance and offloads data processing completely to the dynaTrace Collectors and Server. This not only ensures fast application startup times, but also reduces sustained overhead at 3-5%.

Sharable across teams

Share recorded PurePath sessions between development teams (and your outsourcing partner) to eliminate the need for manual problem reproduction.

Software architecture validation and review

Finding performance issues with your application after you've completed development will often result in costly architectural changes. With dynaTrace, you can verify your software architecture during the development stage allowing you to design and develop for performance from the start. Simply runtime model your application's transaction executions using extended UML-based sequence diagrams to analyze your architecture's dynamic behavior and to audit software implementation adherence to your architectural specifications – e.g. from team members or external service providers.



Modeling runtime behavior through a UML chart

Proactive application performance tuning

dynaTrace is not a profiler, it is much more. Its Workstation Client overcomes profiler limitations and enables efficient performance engineering right from the developer desktop:

- Call trees with actual data from individual transactions vs. probability trees based on averages
- Tracing of distributed transactions across multiple Java/.NET tiers in a single view (e.g. in SOA applications)
- Low overhead guarantees fast startup times and does not mask scalability/concurrency issues
- Fully configurable API views and dashboards simplifying data interpretation
- Advanced deep-dive to find a problem's root cause deep down in the contextual information (e.g. SQL, arguments)
- IDE integration to quickly open identified classes/methods – causing a bottleneck – in Visual Studio or Eclipse

Continuous Integration Performance Management

Even small updates may have significant side effects on the application performance of other application components. This is why dynaTrace integrates with build scripts and runtimes such as Ant, Nant, Maven and MS Build to provide automated white-box performance regression testing with build servers such as Cruise Control, Quick Build or Microsoft's Team Foundation Server. In addition, you can run such detailed regression analysis with e.g. JMeter load tests of up to 25 virtual users against every build. And dynaTrace's tailored dashboards show development team leads how performance evolves over various builds. Further drill downs let you easily compare the performance delta between subsequent test runs down to method level.

Operating Systems

- Windows, Linux, Solaris, HP-UX, AIX
- z/Linux, z/OS

Application Servers & Portals

- IBM WebSphere, Oracle WebLogic, Sun Java AS, SAP NetWeaver, JBoss, Tomcat, ATG Dynamo, Borland Enterprise/Application Server, IONA Application Server, CoreMedia, Adobe JRun & ColdFusion, etc.
- MS IIS/ASP.NET, SharePoint, MS COM+ Services
- Proprietary Java/.NET Servers & Clients

Frameworks

- Hibernate, Struts, Applets, AWT/Swing/RCP, Spring, AOP, Oracle Toplink & Coherence, BlazeDS, etc.

Java/.NET Runtimes

- Sun JVM, IBM JVM, Oracle JRockit & RT, HP JVM
- MS .NET CLR

DBs

- IBM DB2, Oracle DB, MS SQL Server
- Generic JDBC and ADO.NET databases

Remoting

- RMI/JRMP, RMI/IOP, RMI/T3, RMI/HTTP(s), ORMI, IIOP/ORBs, JBoss Remoting
- .NET Remoting, WCF

System & Application Server Monitoring

- JVM/CLR Agent: JMX, PMI, Perfmon
- Open Source Plugins: System data (OS, DBs), SNMP

Web service stacks

- IBM WebSphere, Oracle WebLogic & WS, Apache AXIS, CXF & HTTP Client, WebMethods Glue, SAP NetWeaver, JAX WS, Codehaus XFire, Hessian, .NET Web Services

Enterprise Service Buses (ESBs)

- Oracle Service Bus, Fuse ESB, Microsoft BizTalk

Messaging & Connectors

- JMS, IBM WebSphere MQ, Apache Active MQ, Tibco Rendezvous, CICS, MSMQ, etc.

Build scripts and runtimes

- Ant, NAnt, MS Build, Maven

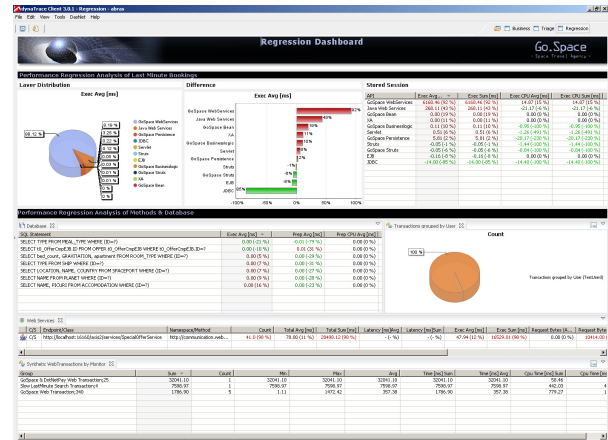
Testing Tools & IDE Integrations

- JUnit, NUnit, JMeter, MSFT VS, LoadRunner, SilkPerformer, etc.
- Eclipse-based IDEs, Microsoft Visual Studio

dynaTrace also supports other application environments. Please contact takeaction@dynatrace.com for further information

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Identifying a Performance Regression Issue at Code-level

KEY FEATURES

- Trace transactions across distributed Java/.NET apps at 3-5% overhead within a single integrated view
- Integrate with continuous integration systems to automatically detect performance regressions early on
- Runtime model an application architecture's dynamic behavior using UML charts
- Diagnose issues at code-level such as database access, memory leak & GC, CPU, remoting, synchronization and exception/log discovery problems
- Record transactions for full offline analysis to make problem reproduction obsolete
- Point and click auto-sensor assistant and a visual class browser to maximize visibility into your code

KEY BENEFITS

- Reduce costs per defect by 10-100x
 - Validate and review software architecture
 - Prevent performance regressions early on
 - Proactively tune applications for optimal performance
- Speed time to market for new and/or enhanced apps
 - Avoid application redesign due to architecture problems
 - Do it once – do it right: Reduce cycles between test and development
- Enables R&D to implement performance management strategically into the development process

CONTINUOUS APM SUITE

The dynaTrace suite includes the following editions:

- Development
- Test Center
- Production