

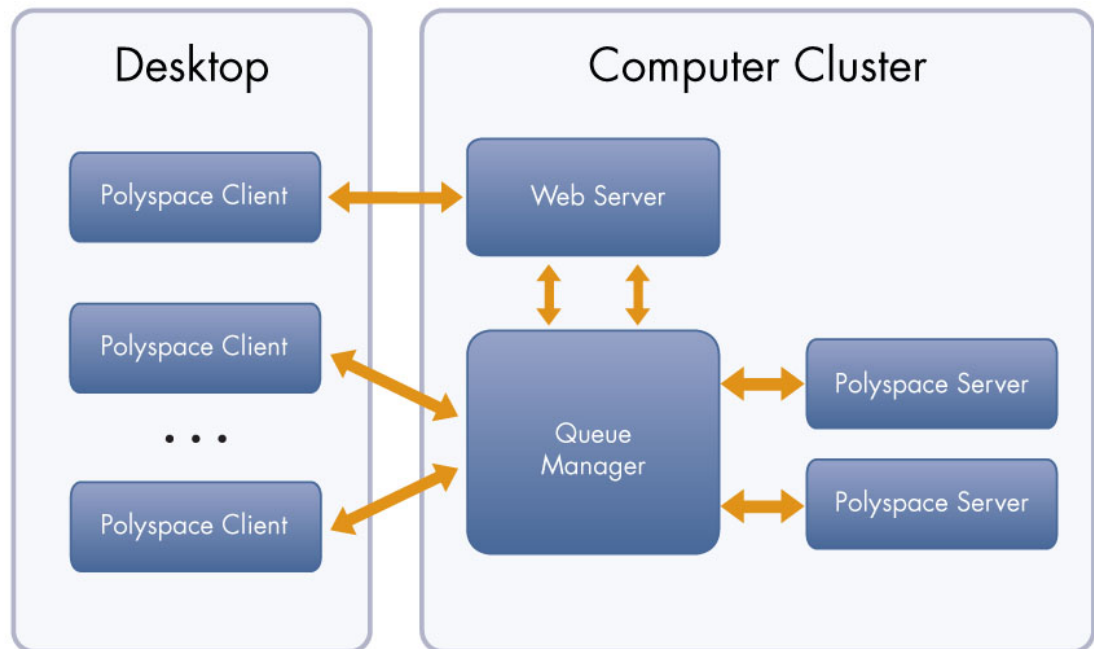
Polyspace Server for C/C++ 8.1

Perform code verification on computer clusters and publish metrics

Polyspace Server™ for C/C++ provides code verification that proves the absence of overflow, divide-by-zero, out-of-bounds array access, and certain other run-time errors in source code. For faster performance, Polyspace Server for C/C++ lets you schedule verification tasks to run on a computer cluster. Jobs are submitted to the server using Polyspace Client™ for C/C++. You can integrate jobs into automated build processes and set up e-mail notifications. You can view defects, regressions, and code metrics via a Web browser. You then use the client to download and visualize verification results.

Key Features

- Web-based dashboard providing code metrics and quality status
- Automated job scheduling and e-mail notification
- Multiserver job queue manager
- Accelerated performance on multicore servers
- Verification report generation
- Mixed operating system environment support

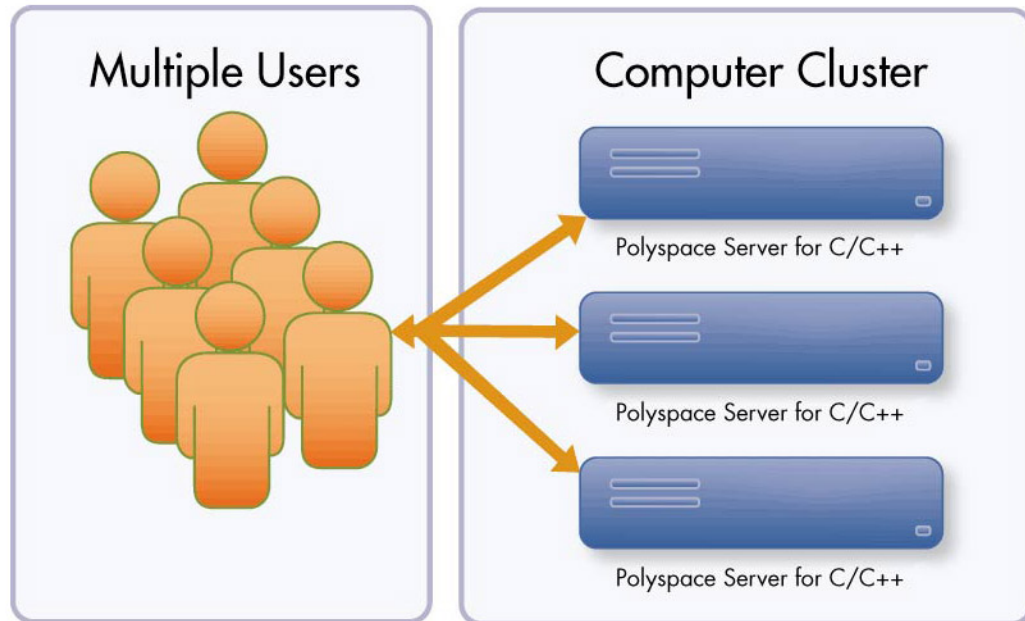


Code verification workflow with Polyspace Client for C/C++ and Polyspace Server for C/C++. The queue manager receives the Polyspace verification request and selects the first available server to run the job.

Distributing Software Component Verification

Polyspace Server for C/C++ streamlines the verification process by letting you queue and distribute verification jobs. By distributing verification runs to computer clusters or server farms, you free up the computer on your developer's desktop to perform other tasks.

Jobs are launched to the server from Polyspace Client for C/C++. The server's queuing mechanism ensures that jobs complete efficiently. Once a verification job completes, you can download the results from the server to the client, where you can review them using the client interface.

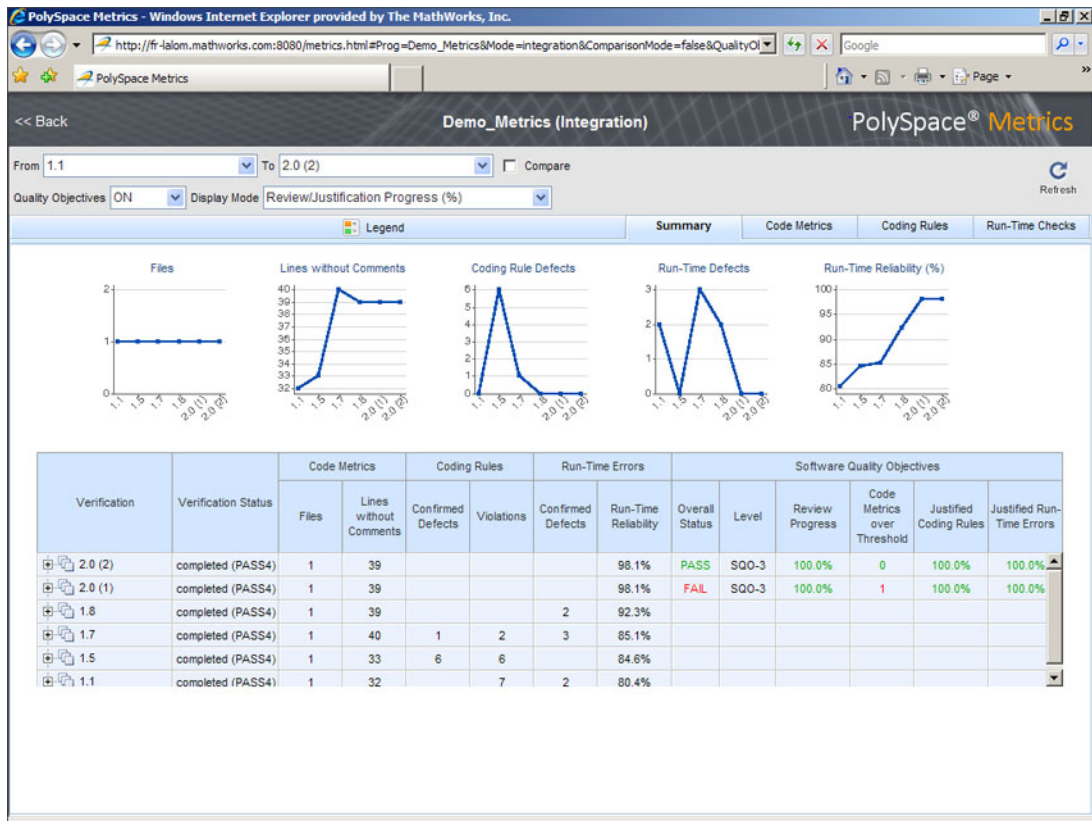


Multiple users with multiple Polyspace clients interacting with multiple Polyspace servers on a computer cluster. One Polyspace verification request is posted to the first available server, which executes the job and makes it available for download from the client.

Accessing Code Metrics and Quality Status Through a Web-Based Dashboard

Polyspace Server for C/C++ includes a Web server with a dashboard you can use to keep track of verification jobs submitted, review progress, and view the quality status of your code. The dashboard gives you a synthesized view of all your projects for cyclomatic complexity, coding rules violations, run-time errors, and other code metrics.

Using these metrics, you can track your progress toward predefined [software quality objectives](#) as your code evolves from the first iteration to the ultimate delivery version. You can monitor the progress of metrics, check the final status of the code, and drill down into the details of any metric.



Web interface with predefined quality models. You can see an overview of project metrics that show the project's progress and regressions.

Automating Verification Job Scheduling and Integrating with E-Mail Notifications

You can assign a Polyspace client to schedule the posting of a job to the server, and get notification by e-mail when the results are available. Results will contain only the differences compared with the previous version of your code. The server automatically computes these differences.

You can define the frequency of these analyses, the quality model you want to apply for a given portion of your code base, and the e-mails you want your users to receive when the result are available. In addition, you can define which characteristics of the build process you want the automated verifications to encompass.

Resources

Product Details, Demos, and System Requirements

www.mathworks.com/products/polyspaceserverc

Trial Software

www.mathworks.com/trialrequest

Sales

www.mathworks.com/contactsales

Technical Support

www.mathworks.com/support

Online User Community

www.mathworks.com/matlabcentral

Training Services

www.mathworks.com/training

Third-Party Products and Services

www.mathworks.com/connections

Worldwide Contacts

www.mathworks.com/contact