

Polyspace Server for Ada 6.1

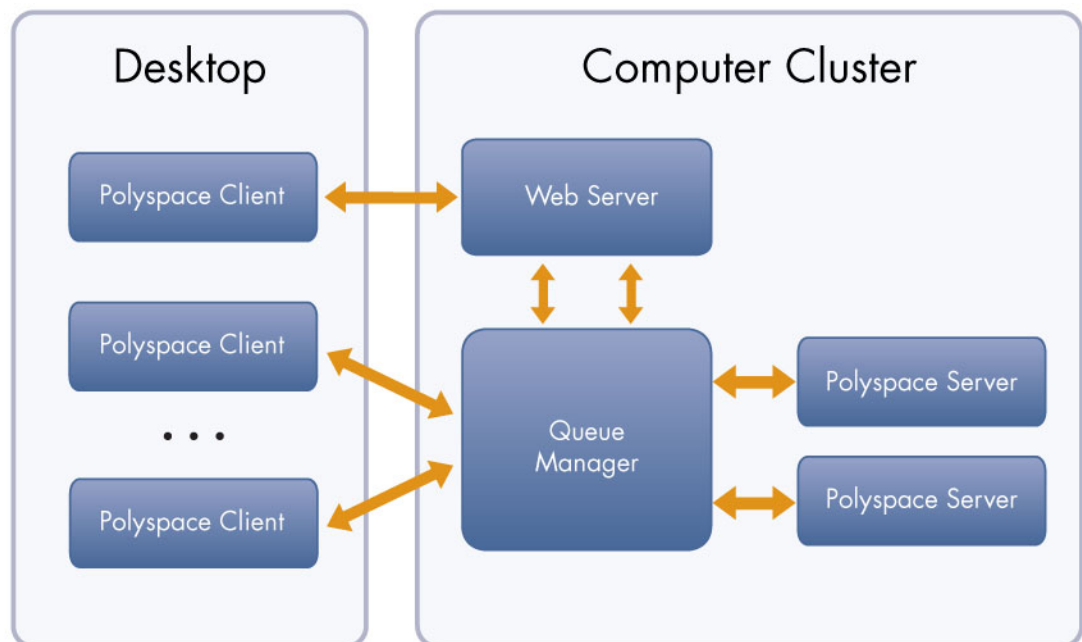
Perform code verification on computer clusters and publish metrics

Introduction

Polyspace Server™ for Ada 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 Ada lets you schedule verification tasks to run on a computer cluster. Jobs are submitted to the server using Polyspace Client™ for Ada. You can integrate jobs into automated build processes and set up e-mail notifications. You can view defects and regressions 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
- Verification report generation
- Mixed operating system environment support

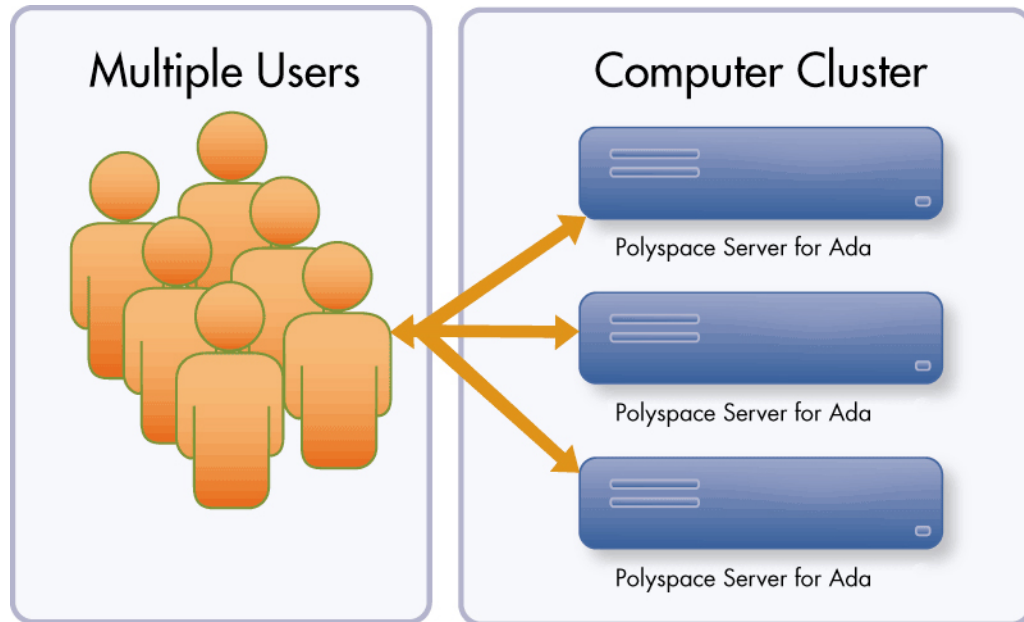


Code verification workflow with Polyspace Client for Ada and Polyspace Server for Ada. The queue manager receives the Polyspace verification request and selects the first available server to run the job.

Distributing Software Component Verification

Polyspace Server for Ada 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 Ada. 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 or view a dashboard summary of software quality metrics via a Web browser.

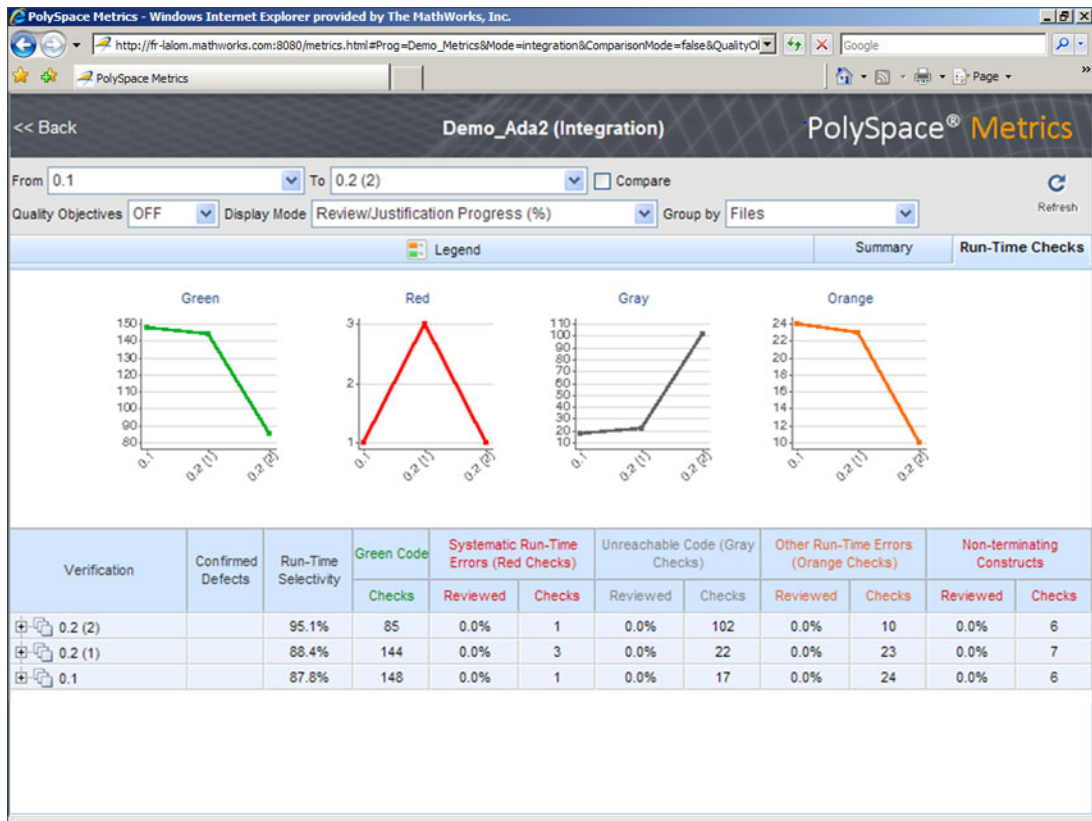


Multiple users with multiple Polyspace clients interacting with multiple Polyspace servers on a computer cluster. One Polyspace verification request is posted to the first available server, which executes the job and makes it available for download from the client.

Accessing Software Quality Metrics Through a Web-Based Dashboard

Polyspace Server for Ada includes a Web server with a dashboard to keep track of verification jobs submitted, review progress, and view the software quality metrics of your code. The dashboard gives you a synthesized view of all your projects for software quality as it relates to run-time behavior.

You can monitor the progress of software quality, check the final status of the code, and drill down to get details.



Web dashboard view. You can monitor the quality of your software and decide which part of the software needs more attention.

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 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/polyspaceserverada

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