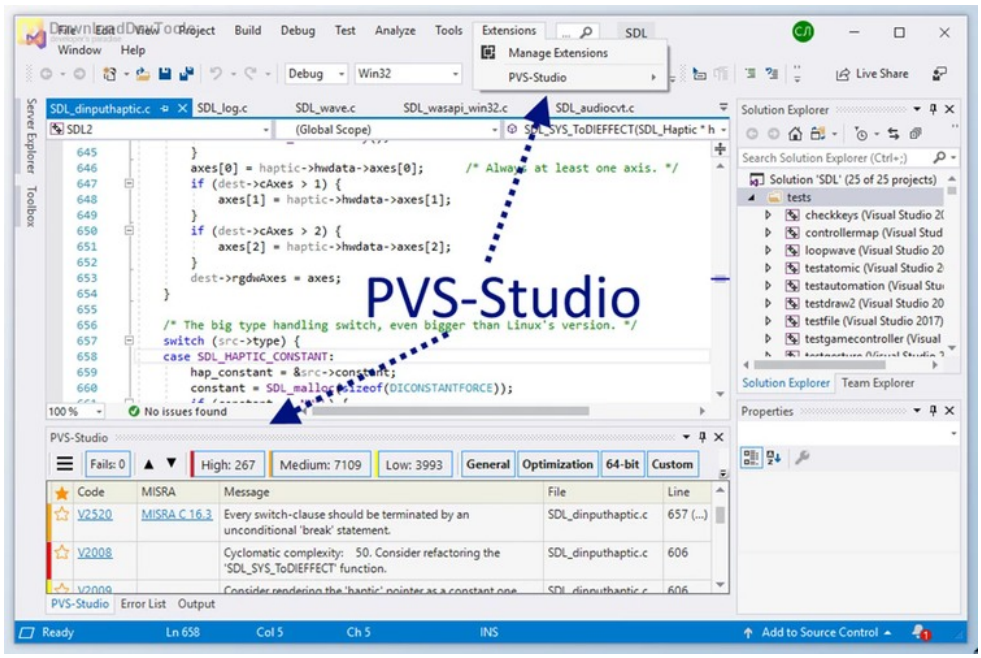
PVS-Studio v7.42 (08 Apr 2026)

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PVS-Studio is a comprehensive static analyzer dedicated to ensuring code quality, security (SAST), and code safety. It serves various stakeholders, including developers, managers, and security professionals, by addressing common pain points such as debugging inefficiencies, frequent bug returns, and difficulty in assessing code reliability as projects scale.

The tool identifies potential vulnerabilities by detecting errors ranging from typos and dead code to critical security issues, utilizing Static Application Security Testing (SAST) methodologies. It aligns warnings with industry standards like Common Weakness Enumeration, SEI CERT Coding Standards, and MISRA, enhancing its effectiveness in identifying potential weaknesses.

PVS-Studio seamlessly integrates into various environments, including IDEs, build systems, game engines, and CI/CD pipelines, making it accessible across various development workflows. It supports multiple languages and compilers, enabling analysis of code written in C, C++, C#, Java, and more across different platforms. Powered by advanced analysis techniques such as data-flow analysis, type inference, and symbolic execution, provides a robust solution for ensuring code quality and security throughout the software development lifecycle.

Key Features of **PVS-Studio**:

1. Detection of various errors including typos, dead code, and potential vulnerabilities using Static Application Security Testing (SAST)
2. Alignment of warnings with industry standards such as Common Weakness Enumeration, SEI CERT Coding Standards, and MISRA
3. Seamless integration into IDEs, build systems, game engines, and CI/CD pipelines for accessibility across different development workflows.

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标签

Java & ActiveX Components

Support for multiple languages and compilers including C, C++, C#, Java, and more, across different platforms

4. Advanced analysis techniques such as data-flow analysis, type inference, and symbolic execution for comprehensive code analysis
5. Identification of potential security vulnerabilities caused by unverified user data through tainted data analysis
6. Intermodular analysis enables diagnostics to consider functions declared in other translation units.
7. Software composition analysis (SCA) to identify dependencies on components containing vulnerabilities

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版本列表

PVS-Studio v7.19.61166.3606 (08 Jun 2022)

PVS-Studio v7.26.73915.362 (07 Aug 2023)

PVS-Studio v7.27.75620.507 (11 Oct 2023)

PVS-Studio v7.28.78353.681 (25 Dec 2023)

PVS-Studio v7.35.89811.1688 (03 Mar 2025)

PVS-Studio v7.36.91321.1771 (09 Apr 2025)

PVS-Studio v7.36.91545.1786 (14 Apr 2025)

PVS-Studio v7.36.92384.1823 (06 May 2025)

PVS-Studio v7.37.94606.1915 (19 Jun 2025)

PVS-Studio v7.40.101088.2089 (10 Dec 2025)

PVS-Studio v7.42 (08 Apr 2026) for macOS

PVS-Studio v7.42 (08 Apr 2026) for Win

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