

DATA SHEET

DevPartner® for Visual C++ BoundsChecker Suite

Business Challenge

How much of the code has been tested? How stable is the code base? What is the quality of last night's build? How many errors and resource leaks are still in the code? Without the right tools, developers trying to determine how well their applications have been tested must rely on subjective information. Insufficient answers to these questions lead to uncertainty at milestones such as code check-in, unit testing or integration testing, and final release. Development and QA managers ask these questions every day but, until now, meaningful answers have been difficult to produce.

Product Overview

DevPartner® for Visual C++ BoundsChecker Suite provides answers to these key questions by increasing code quality and reducing development time for Microsoft Visual C++ native applications and components. It detects and analyzes runtime errors, provides comprehensive performance data and verifies testing coverage. DevPartner for Visual C++ BoundsChecker Suite helps development professionals build well-tested, multi-tier applications and components quickly, with as few coding errors and performance problems as possible - right from the start and during every stage of development. In addition to saving time and effort, DevPartner for Visual C++ BoundsChecker Suite pinpoints runtime errors, performance bottlenecks and testing gaps, allowing developers to bring open issues to quick resolution.

Key Benefits

Micro Focus DevPartner for Visual C++ BoundsChecker Suite is an award winning product suite that enables application teams to improve software quality, maximize developer productivity and deliver superior reliability and performance:

- Deploy thoroughly tested enterprise applications
- Quickly locate memory hungry methods and those leaking memory and resources
- Improve the performance and scalability
- Analyze distributed applications
- Track code quality with integrated reporting
- Diagnose system configuration issues with ease

Detailed Feature Overview

Locate errors automatically and correct problems quickly

BoundsChecker error detection technology provides developers with a clear, detailed analysis of programming errors in unmanaged Visual C++ code. It automatically monitors the runtime behavior of the code - how it accesses memory, calls APIs and uses COM interfaces and methods. Without any special compilation or build steps, developers and testers can automatically locate errors in static, stack and heap memory, and detect and diagnose memory and resource leaks. Its thread analysis feature can automatically predict and detect thread deadlocks and analyze thread and synchronization object problems in unmanaged Visual C++ code. DevPartner for Visual C++ BoundsChecker Suite also helps native Visual C++ developers interface with managed .NET code.

Locate performance problems

Using DevPartner for Visual C++ performance analysis, developers can quickly isolate performance bottlenecks in single and multi-tiered applications. Micro Focus-patented performance analysis technology delivers unmatched top-to-bottom performance metrics at the machine, process, component or source line levels. Combined with an intuitive user interface, performance analysis enables developers to trace application flow and differentiate between application and operating system calls for rapid identification of performance issues.

Deploy thoroughly tested applications

DevPartner for Visual C++ coverage analysis automatically pinpoints untested code by capturing and combining testing sessions for applications and components across users and application tiers in native C++ code. By identifying which portions of the application are tested redundantly and which portions are not tested at all, DevPartner for Visual C++ helps testing teams focus their activities where they are most needed - significantly improving their efficiency.

Track code quality with integrated reporting

DevPartner for Visual C++ integrated reporting produces code quality reports that managers and team leads can review easily using a web browser. Important metrics and summary-level details allow managers to quickly understand the quality and stability of the code base from the earliest stages of development through the final QA

testing phase. Customizable reports are provided for code quality, error detection, performance and code coverage.

Diagnose system configuration problems with ease

System configuration differences and changes in system-level settings are often the cause of application problems that are difficult to reproduce in the development lab. If a problem cannot be reproduced, it can be nearly impossible to fix. DevPartner for Visual C++ system comparison helps developers understand the differences in configuration and system level settings that affect the stability of their applications. Through the use of automated system snapshots, the system comparison feature compares the configuration of two systems and presents developers with a concise view of the differences between the two systems. It also shows developers the configuration and setting changes that have occurred on a single system between two points in time.

Product Specifications and System Requirements

See: <http://www.microfocus.com/products/DevPartner/SystemRequirementsDevPartnerVisualCBoundsCheckerSuite9.asp>

For additional information please visit: www.microfocus.com

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