



VIRTUALFORGE
run your business safer

CODEPROFILER - ABAP™ Code Optimization For Security & Quality

Our Know How - Your [Advantage]

- Reduce your total cost of ABAP development
- Avoid system failure
- Improve the performance of your ABAP applications
- Protect your applications against data theft or loss



The Core [Solution]

Quality assurance is critical in today's software development. Virtual Forge CodeProfiler helps to ensure exceptionally high quality software development for:

- Security
- Performance
- Compliance
- Robustness
- Data Loss Prevention
- Maintenance

Based on Virtual Forge's patented global data and control flow analysis, CodeProfiler runs more than 200 test cases to pinpoint critical vulnerabilities in ABAP program code. CodeProfiler identifies the core security and quality issues that can adversely affect SAP system performance.

A high hit rate with proper prioritization is crucial for rapid risk assessment, effective mitigation and immediate cost reduction.

Identify Risks [Reliably]

The unique design of CodeProfiler's architecture enables it to investigate ABAP programs, Business Server Pages and Web Dynpro ABAPs very rapidly, and from within the logical context of the applications. Beyond purely testing up to 20,000 lines of code per second, CodeProfiler is designed to optimize available resources, helping to reduce the cost of analysis and evaluation considerably.



Many Years Of [Experience]

CodeProfiler reflects more than ten years' experience in ABAP programming quality assurance, helping to ensure that risks are identified and removed quickly, safely and efficiently. The comprehensive feedback, with a comprehensive analysis of results, not only helps correcting immediate issues, it helps build long-term best practices into your development efforts.

„One of the key requirements was to scan several billions lines of code each week. [...] Together with Virtual Forge we have been able to create a truly unique solution.“

Michael Brauer,
Director of Corporate Automation within the Corporate Information Technology department of Siemens AG





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Quality Assurance [From The Start]

Virtual Forge's ABAP CodeProfiler checks application performance, robustness and maintainability, ensuring consistent coding standards, structure and quality. Continuous, automated testing enabled by CodeProfiler helps to improve development transparency, reduce error rates and avoid downtimes and program dumps.

As a result, business productivity increases as cost-efficient development becomes standard, leading to reduced maintenance costs and lower hardware requirements.

CodeProfiler [Quality Suite]

Performance: CodeProfiler identifies programs with adverse effects on SAP system performance.

Maintainability: Detailed analysis and reports provide the basis of the structures and logic used within a program, making it easier and more cost-efficient to maintain.

Robustness: Checks ABAP applications for programming errors that might jeopardize reliability.

Naming conventions: Extends SAP Code Inspector routines to ensure naming convention validity over a longer period of time and adapted to new requirements.

Sustained [Security & Compliance]

CodeProfiler Security Suite is designed to find weaknesses and vulnerabilities in ABAP applications and programs, helping to detect and prevent espionage and hacking attacks, and provide a solid foundation for enterprise security. Virtual Forge CodeProfiler will ensure that your applications have no security, compliance or **Data Loss Prevention** gaps, and meet the requirements of internal and external auditors, following best practice guidelines.

CodeProfiler [Security Suite]

Security: Identifies programs that can be abused by unauthorized users to compromise or take advantage of SAP applications.

Compliance: Tests programs to determine compliance with Basel II, SOX, and Business Application Security Initiative (BIZEC) and many other regulations, to ensure that your programs are safe.

Data Loss Prevention: Checks at the program level whether critical data, for example credit card information, can be read or exported by unauthorized users.

„Applying the Virtual Forge CodeProfiler and the close collaboration with Virtual Forge helped us to increase the level of security and improved the quality of our business solutions.“

Ralph Salomon, Vice President IT Security & Risk Office at SAP

New: CodeProfiler for [Eclipse]

CodeProfiler for Eclipse offers a new way to avoid costly correction of programming errors by introducing in-flight detection and prevention. This online solution interacts in real-time with developers, leading to consistent performance improvements as the learning effect takes hold, delivering a significant increase in program quality, effectiveness and safety. CodeProfiler checks the ABAP code as it is being written; potential weaknesses are immediately recognized and highlighted in red, very much like a spell-checker. CodeProfiler prompts potential corrections, which can be accepted in real time, helping to avoid bugs reliably – in the most cost effective way.

SAP® Certified
Integration with SAP Applications

Find out more about Virtual Forge, SystemProfiler and other cost-effective SAP system management products at www.virtualforge.com, or scan the code.



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