

# StackAnalyzer for X86

StackAnalyzer automatically determines the worst-case stack usage of the tasks in your application. The analysis results of the analyzed binary executable are shown as annotations in the call graph and control flow graph.

## Key benefits

- Detailed and precise information on stack usage by application tasks.
- Stack analysis for all hierarchy levels: routines, basic blocks, assembly instructions.
- Freely selectable entry points for the analysis.
- Easy recognition of critical program sections thanks to customizable color coding.
- Fully integrated, feature-rich graphical and textual viewers for control flow, analysis results, source code, assembly code, and configuration files.
- Seamless integration with other analysis tools from AbsInt in an intuitive user interface.

## Supported compilers

- CAD-UL Tool Suite C/C++ compiler for x86 Protected Mode
- CompCert C Compiler
- Cygnus LynxOS x86 C/C++ Compiler of LynuxWorks for 32-bit flat mode
- GNU C/C++ Compiler (GCC) for 32-bit flat mode or 64-bit long mode
- Intel iC-86 C/C++ Compiler (ICC) for 16-bit real mode
- LLVM/Clang based C/C++ compilers
- PL/I compiler for x86 processors (protected mode)

## Supported architecture variants and extensions

The supported instruction sets are x86-32 (= ia32 = Intel 32), x86-64 (= Amd64 = Intel 64), x87, MMX, 3DNow!, SSE, SSE2, SSE3, SSE4.1, SSE4.2, AES, AVX, and AVX2.

## System requirements

- Windows: 64-bit Windows 7 SP1 or newer

- Linux: 64-bit CentOS/RHEL 7 or compatible
- 4 GB of RAM (16 GB recommended)
- 4 GB of disk space

## Also available

The following AbsInt products are also available for this target:

- TimingProfiler
- ValueAnalyzer
- Qualification Support Kit
- Qualification Software Life Cycle Data Report

## More information

- Visit our website: [www.absint.com](http://www.absint.com)
- Speak with a product specialist:  
call +49 681 383 600

## About AbsInt

AbsInt provides advanced development tools for embedded systems, and tools for analysis, optimization and verification of safety-critical software. Our customers are located in more than 40 countries worldwide. We have distribution agreements with major software distributors in Asia, North America, Middle East, and throughout Europe.

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