Factsheet

StackAnalyzer for X86

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AbsInt

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: x86-64 Windows 10 (1809) or newer
- Linux: x86-64 RHEL 9 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

More information

- Visit our website: 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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