

# Factsheet



## StackAnalyzer for ARM

Release 24.04i, b15309220

April 25, 2024



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

- ARM Developer Suite C/C++ compiler
- CompCert C Compiler
- GNU C/C++ Compiler (GCC)
- Green Hills C/C++ Optimizing Compiler
- IAR C/C++ compiler
- Keil MDK-ARM C/C++ compiler suite
- LLVM/Clang based ARM compilers such as the HighTec compiler
- Tasking C/C++ compiler
- Texas Instruments C/C++ compiler
- Wind River Diab C/C++ compiler

## Supported architecture variants and extensions

- ARMv4 / ARMv4T
- ARMv5T / ARMv5TE

- ARMv6 / ARMv6T2
- ARMv7
- ARMv8
- ARMv9 up to and including ARMv9.3
- Advanced SIMD / “NEON”
- Thumb/Thumb-2
- VFP

## Supported ARM families

- ARM7TDMI / ARM9TDMI
- StrongARM
- ARM9E / ARM10E
- XScale
- Cortex-A / Cortex-M / Cortex-R

## System requirements

- Windows: x86-64 Windows 10 or newer
- Linux: x86-64 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:

- aiT
- TimingProfiler
- ValueAnalyzer
- TimeWeaver
- Qualification Support Kit

## 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.

## Our headquarters

Science Park 1  
66123 Saarbrücken, Germany  
Phone: +49 681 383 600  
Fax: +49 681 383 60 20  
Email: [info@absint.com](mailto:info@absint.com)  
Web: [www.absint.com](http://www.absint.com)