Factsheet

StackAnalyzer for V850

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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

- Wind River Diab C/C++ compiler (C code)
- Green Hills C/C++ Optimizing Compiler (C code)
- Renesas CS+ compiler

Supported architecture variants and extensions

- V850E/PHO3 (revisions μPD70F3441 and μPD70F3483)
- V850E/FK3-H (revision μPD70F3469)
- V850E2/Fx4-H (revision μPD70F3501F1, umbrella emulation device)
- VFOREST (revisions μPD76F0134, μPD76F0197, μPD76F0198, μPD76F0199)
- FOREST (revisions μPD70F3407, μPD70F3409, μPD70F3410, μPD70F3429, μPD70F3431)

- Generic support for the various V850 E1/ES, E2, E3, and RH850 ISA targets

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:

- aiT
- TimingProfiler
- ValueAnalyzer
- TimeWeaver
- 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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