

Factsheet



aiT for MPC5XX

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aiT WCET Analyzers statically compute tight bounds for the worst-case execution time (WCET) of tasks in real-time systems. They directly analyze binary executables and take the intrinsic cache and pipeline behavior into account.

Key benefits

- aiT-computed bounds are extremely tight and thus reflect the actual performance of your system. Ensuring deadline adherence is not done at the expense of hardware resources.
- aiT-computed bounds are valid for all inputs and each execution of a task. Extensive timing testing is a thing of the past.
- aiT directly analyzes binary executables. It is widely independent of the compiler and source code language used. This means no modification of your toolchain or the system's operational behavior and performance is required.
- Seamless integration with other analysis tools from AbsInt in an intuitive user interface.

Supported compilers

- CodeWarrior C/C++ (NXP)
- CompCert C Compiler
- DDC-I SCORE Compiler
- GNU C/C++ Compiler (GCC)
- AdaCore GNAT Pro Compiler (C/C++ and Ada source code)
- Green Hills Optimizing Compiler (C/C++ and Ada source code)
- HighTec GNU C/C++ Compiler
- Wind River Diab C/C++ Compiler

Supported processor derivatives

- PowerPC MPC555
- PowerPC MPC561

- PowerPC MPC562
- PowerPC MPC563
- PowerPC MPC564
- PowerPC MPC565
- PowerPC MPC566

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:

- StackAnalyzer
- 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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