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Intel(R) Array Building Blocks Known Issues and Limitations

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The following are known issues in Intel® Array Building Blocks (Intel® ArBB) 1.0 beta packages. Some issues affect multiple architectures and/or operating systems and some relate only to a single architecture or operating system.

Intel Array Building Blocks 1.0 Beta 1

Installation and Configuration

- Incompatible versions of **tbb.dll** and **tbb_debug.dll** between Intel® ArBB and Intel® C++ Compiler for users who have both products installed on Windows* OS. ([How to resolve](#))
- Installing or uninstalling Microsoft* Visual C++* Debugger Integration fails if system protection for the OS is not turned off on Windows* OS. ([How to resolve](#))
- Silent installation on Linux* OS crashes with segmentation fault.

Core API and Types

- The *emulation mode* (**ARBB_OPT_LEVEL=O0**) sometimes leads to "out of heap" exceptions for big datasets.
- The behavior of the **O1** mode (**ARBB_OPT_LEVEL=O1**) is not defined. Using **O1** in this release leads to runtime crash.
- Setting **ARBB_OPT_LEVEL** to anything other than **O0**, **O2**, and **O3** leads to runtime crash.
- If an outgoing parameter of a function is not actually updated inside the function, then it may lead to runtime crash.

Debugging Support

- The current debugger integration can only be used to inspect Intel® ArBB scalars and containers whose elements are of built-in types, such as **i32** and **f64**. It does not work well with containers whose elements are of user-defined types. Furthermore, **nested<>** containers are not supported.
- Debugging support only works for the emulation mode. That is, the Intel® ArBB optimization level must be set to **O0** using the environment variable **ARBB_OPT_LEVEL**. Programs with big input size may run very slow or even crash in this mode.

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