

Boost Library Support using HP C/aC++ Developer's Bundle for HP-UX 11i on HP Integrity Systems

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Boost Libraries (www.boost.org)

- The Boost libraries were created to provide a set of reusable, open source C++ libraries that are suitable for standardization.
- 10 of the Boost libraries are included in the C++ Standards Committee's Library Technical Report as a step toward becoming part of the next C++ Standard.
- The Boost License allows both commercial and non-commercial use and is being used by many customers (Adobe, SAP, Rhapsody, McAfee, etc).

Boost Support for Compilers

- Boost is tested on a wide range of compilers and platforms including aC++ on HP-UX Integrity. For more information and testing results, see the [regression test results](#) web page.
- To be listed as a Boost supported compiler, the libraries would all have to be in a passing state.
- When HP started testing, it was too late to be added to the list of supported compilers for the 1.34 release.
- With the release of 1.34, the testing results using aC++ on HP-UX Integrity Servers have results in line with supported platforms.
- HP will continue the Boost testing that we do today and will work with the Boost community to include the HP compilers in the supported compiler list.

Compiler Support for Boost

- Since June 2006, HP has run Boost tests on a daily basis and despite the fact that HP-UX is not a supported platform, it is evident from the mailing lists that the developers are looking at the results.
- HP submitted numerous patches, most of which have been applied to both their mainline and 1.34 branches.
- It is fair to say that the HP compiler team has established a presence in the "Boost community" and gained credibility.
- Often HP-UX questions asked on the Boost mailing list are answered by the HP compiler team members.

Mutual Benefits from Boost Testing

- Providing HP-UX testing to the Boost community helps them produce quality and robust software.
- The complexity of Boost has provided some excellent stress testing of the HP compiler.
- Boost testing resulted in improvements to both the HP C/aC++ compiler as well as the recently announced HP-UX 11i V3 release.

The Recommended Combinations

- Boost Libraries Version 1.34
 - HP C/aC++ Compiler A.06.12 and higher
 - Latest HP-UX Release 11i V2 or V3
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- Testing results are that all Boost 1.34 libraries are green.
 - Our group will not spend time supporting older Boost and compiler combinations.
 - Our current Boost testing is focused on HP-UX 11i running on the Integrity Server platform.
 - There were a few header file fixes in 11i V3.

For more information

- www.hp.com/go/c
- www.hp.com/go/c++
- www.boost.org

- Beyond the C++ Standard Library: An Introduction to Boost
By Bjorn Karlsson
Addison Wesley
ISBN-10: 0-321-13354-4
ISBN-13: 978-0-321-13354-0
Published: Aug 31, 2005

- The C++ Standard Library Extensions: A Tutorial and Reference
By Pete Becker
Addison Wesley
ISBN-10: 0-321-41299-0
ISBN-13: 978-0-321-41299-7
Published: Jul 21, 2006



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