



FOR IMMEDIATE RELEASE

Ada 2012 Language Standard Published in Springer's LNCS and as Free eBook Further Widen the Availability of Latest Language Revision

BRUSSELS, BELGIUM, May 12, 2014. Ada-Europe today announced the publication in extra formats of the 2012 version of the Ada programming language standard, after its formal approval by ISO/IEC JTC 1 in December 2012.

Since its standardization, the Ada 2012 standard has been available in HTML and Adobe Acrobat format (PDF), from the download sites [1] and [2]. More recently, the latest Ada language definition became also available as volume 8339 of Springer's Lecture Notes in Computer Science series [3], as a companion to the Ada 2012 Rationale, published by Springer as LNCS 8338.

Moreover, with a view to exploring new media platforms to further widen the availability of this important material, Ada-Europe has now produced a prototype eBook of the Ada 2012 Reference Manual, which can be downloaded from [1]. This eBook should be regarded as a draft concept, proposed for the scrutiny of the Ada community at large, for feedback on its perceived usefulness and suggestions for improvements. Returns on this subject should be addressed to Ada-Europe at board@ada-europe.org.

[1] <http://www.ada-europe.org/resources/online>

[2] <http://www.adaic.org/ada-resources/standards/ada12>

[3] <http://www.springer.com/computer/swe/book/978-3-642-45418-9>

About Ada 2012

Ada 2012 brings significant enhancements to Ada, most notably in the area of "contract-based programming." New features include the ability to specify preconditions and postconditions for subprograms, and invariants for private (encapsulated) types. These take the form of Boolean expressions that can be interpreted (under programmer control) as run-time conditions to be checked. The contract-based programming features fit in smoothly with Ada's Object-Oriented Programming model, and support the type substitutability guidance supplied in the Object-Oriented Technologies and Related Techniques Supplement (DO-332) to the new avionics software safety standard DO-178C / ED-12C.

Other new features in Ada 2012 include enhancements to the containers library, additional expressiveness through features such as conditional expressions and more powerful iterators, and support for multicore platforms (task affinities, and the extension of the Ravenscar profile - standardized in Ada 2005 as an efficient and predictable tasking subset for high-integrity real-time systems - to multiprocessor and multicore environments).

About Ada-Europe

Ada-Europe is the international non-profit organization that promotes the knowledge and use of the Ada programming language in academia, research and industry in Europe. Its flagship event is the annual international conference on reliable software technologies, a high-quality technical and scientific event that has been successfully running in the current format since 1996.

Ada-Europe has member organizations all over the continent, in Belgium, Denmark, France, Germany, Spain, Sweden, and Switzerland, as well as individual members in many other countries. For information about Ada-Europe, its charter, activities and sponsors, please visit: www.ada-europe.org. Ada-Europe is headquartered in Brussels, Belgium.

A PDF version of this press release is available at <http://www.ada-europe.org/>.

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