professional training
Learn Ada from AdaCore Expert instructors
Public courses in US and UK during April 2016
A 5-day course on Ada fundamentals will be held during April 11–15, in New York, NY, and during that same week in London, UK, and during the next week in AdaCore’s New York headquarters. Consulting and lectures of hands-on work with the Ada language, the Ada standard library, and the Primus compiler, ensuring a good coverage of Ada’s language bases as well as topics relevant to embedded systems developers, and it explores the essentials of design, writing, as well as other important Ada 2012 features. The course is open to the public and does not require previous Ada experience. For registration information and a detailed schedule please visit www.adacore.com/adacoretc/.

Tech Days in Paris and Boston
During Autumn 2015 AdaCore hosted two customer-centric events in France and in the US. The sessions, known as “Ad-a-ty” sessions, were designed to help customers understand how Ada “renames” is used to make it appear that the subprogram under test is being invoked directly. The Name string appears in GNATtest messages and in test skeleton comments. It can be associated with a subprogram in a package specification. Here is an example using the aspect syntax:

package Math in
    function Sqrt (Arg : Float) return Float with
        Mode => In, result => Sqrt'Result,
        Require => Sqrt'Result in, -- Return exact result
    end Sqrt;

function Sqrt (Arg : Float) return Float with
    Mode => In, result => Sqrt'Result,
    Require => Sqrt'Result in, -- Return exact result
end Math.

Using “renames” allows one to test subprograms that are not exposed in a test harness. The GNATtest tool, in conjunction with the GNAT-defined Ada 2012 aspect Test_Case (also available as a pragma) expedites this process by allowing one to specify which subprograms to test, what input to use, and which assertions to check. For more information please visit www.adacore.com/blog/production/..

Check Out the AdaCore Blog
Learn why the Advanced Aerospace component development community recently revealed its strongest endorsement for AdaCore’s SPARK Pro 16.0 release. This release adds a new orientation for Ada developers to obtain a practical understanding of the language’s type system and to learn how to use it effectively. This release also includes improvements to the AdaCore Toolsuite running-time environment, and an enhanced set of new tools to support the use of Ada in embedded environments.

Embedded World 2016
Embedded World is the world’s largest embedded systems trade fair, with 1000 exhibitors from 40 countries. AdaCore is exhibiting at this event in Booth 4-149, Hall 4.

Upcoming Releases:
SPARK Pro 16.0, QGen 2.1
GNAT Pro 7.4, CodePeer 3.1,
AdaCore Participating in Certified Drone Autopilot Project

Mael Christensen, in his position as a Technical Account Manager based in the UK, is extremely enthusiastic about the current state of drone development. ‘In my current role I am a Technical Account Manager based in the UK, where I enjoy the fast pace and the entrepreneurial start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and that fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling.’

But things are changing. ‘In my current role I am a Technical Account Manager based in the UK, where I enjoy the fast pace and the entrepreneurial start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling.’

The arrival of the 2012 revision of the Ada language has changed the perception of the language and its power over the hardware were almost on par with C. But things are changing. ‘In my current role I am a Technical Account Manager based in the UK, where I enjoy the fast pace and the entrepreneurial start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling.’

Mael also states that his other primary responsibility is to ensure the successful implementation of the software in UAVs in 2016. ‘In my current role I am a Technical Account Manager based in the UK, where I enjoy the fast pace and the entrepreneurial start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling.’

‘The integration between hardware and software and the unique challenges of safety-critical systems are engaging, I was hooked on Ada.’

AdaCore engineers worked closely with Wind River to integrate the AdaCore software into the RTOS. ‘In my current role I am a Technical Account Manager based in the UK, where I enjoy the fast pace and the entrepreneurial start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling. Even as it is growing and evolving, that word deliberately, because the company after 20 years still has that start-up culture and overall fresh feeling.’
Using SPARK for Drone Safety

AdaCore’s Miroslav Kopecky discusses the project’s origins and involvement with SPARK, the certification process for drones and the regulations for drone pilots in the State of California.

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AdaCore has participated in Certified Drone Autopilot Project for 2 years. The goal of this project is to develop an Ada-based certified autopilot for the Crazyflie drone. The project has been awarded to AdaCore in partnership with REDS, the French government agency that oversees military technologies. A completely reengineered open source framework of Ada-based certified control systems will be developed and made available for use.

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Certified Drone Autopilot Project

Crazyflie drone

from a GitHub repository, and its architecture is very flexible. However, the Crazyflie is a very small quadcopter sold as an open source development tool. Thus, in a competitive advantage in an environment where drone safety is attracting increasing attention in the industry. A key goal is to develop and verify the autopilot software so that it can meet safety requirements.

AdaCore is participating in CAP2018 (Certified AutoPilot 2018), a project partnered with a top industrial developer of embedded software using Ada/C++: Professional Development, composed of 25 top industry developers. The project's aim is to develop and verify a certified autonomous drone control system using Ada/C++

SPARK Pro 16.0

Support for Ada 2012 views, support for CodePeer's analysis and synthetic code generation, and support for Frama-C 2.2.5 are included.

New IDE and Code Quality Improvements

A new IDE template, called SPARK Pro 16.0, will be released in the next major release cycle, in Q1 2016. Here is a sampling of product enhancements that will be available in the upcoming releases.

Using SPARK for Drone Safety

AdaCore's latest release, version 16.0 of GNAT Pro, is designed to help aerospace and defence companies move towards the creation of certified embedded software.

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It is a leading provider of products and services that help companies develop and maintain high-quality software. AdaCore's solutions are used in some of the most critical systems development in various languages including Ada, C, and C++. Any comments on how these languages compare, or how does AdaCore support for software engineering is learning about them thanks to feature-rich IDE tools.

French DGA selects GNAT Pro and AdaSquere

The French government agency that oversees military and civil aviation systems authenticity needs— Procurement— has selected AdaCore and SQUORING software, both of which have already been developed for the French DGA in recent years. It is expected that the software will be used to generate proofs for the certification of Ada programs. The next release of AdaSquere, code named 2015-03, will be released in May 2015 and will include support for Ada 2012.

AdaCore is the lead developer of AdaSquere, a tool that generates proofs for Ada programs. The tool is based on the proof infrastructure developed by the AdaCore team.

The arrival of the 2012 revision of the Ada language has changed the perception of Ada within the software development community. I am extremely pleased that domains which previously had no knowledge of Ada now want to consider it for their own projects.

AdaCore’s tools are designed to support the use of Ada in the development of mission-critical systems. AdaCore’s tools include the GNAT Pro suite of development tools, the AdaSquere software development framework, and the CodePeer software analysis tool.

Ada is a popular choice for mission-critical systems development, and AdaCore’s tools are well-suited for this purpose. However, Ada is not without its challenges.

The tool creates a formal model of the software, which is then analyzed using a variety of automated and manual techniques.

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For more information please visit www.adacore.com/adacore-training/

Upcoming releases:

SPARK Pro 16.0, QGen 2.1, GNAT Pro 7.4, CodePeer 3.1,
The GNAT Pro Company

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Autotesting Test Case Generation in Ada 2012 with GNATTest

During Autumn of 2012 as part of the Ada 2012 effort, AdaCore and the team at the company's testing division, Autotesting, have been looking into the issue of autotesting with subprograms. In this Autumn/Winter 2015-2016 issue, Autotesting has published an in-depth technical article on using GNATTest to autotest subprograms in Ada 2012, a paper that was accepted for inclusion in the conference proceedings of the 2016 International Conference on Software Engineering and Formal Methods, held in Toulouse, France in October 2016.

The article describes how Autotesting has developed a new tool for generating test cases for Ada 2012 subprograms. The tool, called GNATTest, is designed to simplify the process of generating test cases for subprograms, thereby making it easier for developers to write robust and reliable software. The article also includes examples of how GNATTest can be used to generate test cases for different types of subprograms, including those that involve complex data structures and those that are used in concurrent systems.

For more information, please visit: www.adacore.com/sadacore/papers/adafulness.html

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During Autumn 2015 AdaCore hosted two customer-centric events in Paris and in the Boston area. These two-day conference-style meetings featured presentations and demos by AdaCore staff, several project sources from US companies, and more importantly, all customer presentations and AdaCore parts of the company's technical presentations used in the conference. The Ada Core staff, and visitors to the conference, were present in both Paris and Boston to attend the conference. The conference was attended by AdaCore employees and visitors who were interested in the latest Ada technology. The conference was organized by AdaCore and sponsored by the Goethe Institute and the Boston Academy of Sciences.

For up-to-date information on conferences where AdaCore is participating, please visit: www.adacore.com/events/

ISAAC 2015: International Symposium on Software Reliability Engineering

Held in Orlando, FL, USA from January 26 to 29, 2016, the conference is co-sponsored by the IEEE Computer Society and the IEEE Reliability Society. The conference will focus on the latest advances in software reliability engineering, including software testing, software maintenance, and software development. For more information, please visit: www.isaac-csr.org

Embedded World 2016

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Interview with Martyn Pike

Upcoming Release: GNAT Pro 7.4

GNAT Pro 7.4, CodePeer 3.1, SPARK PRO 16.0, QGen 21.0

Ada courses in UK and US

Autotesting Test Case Generation with GNATTest

Designing autotests for subprograms is one of the key challenges for developers working on software intensive systems. GNATTest is a tool developed by AdaCore that can simplify the process of designing autotest specifications and generating test cases. The tool is designed to help developers create robust and reliable software by providing a framework for generating test cases that can be easily modified and reused. In this Autumn/Winter 2015-2016 issue of the magazine, Autotesting has published an article on using GNATTest to autotest subprograms in Ada 2012, a paper that was accepted for inclusion in the conference proceedings of the 2016 International Conference on Software Engineering and Formal Methods, held in Toulouse, France in October 2016.

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