



The GNAT Academic Program SIGADA 2004

Atlanta, Nov. 17, 2004



Objectives

- **To create momentum to ensure a cooperative effort in creating Ada educational material**
- **Create stronger links between the Ada academic community and the Ada industry**
- **Obtain insight into how these initiatives can evolve and be effective in maintaining the teaching of Ada**



AdaCore – a history linked to academia

- **AdaCore emerges out of NYU research project, 2 NYU faculty on team.**
- **Close academic ties at AdaCore in Europe (ENST, Paris VI, ENST Bretagne)**
- **Academic versions of GNAT Pro toolset and add-ons available at - <http://www.libre.act-europe.fr>**
- **The future of Ada can only be assured by the formation of Ada programmers!**



AdaCore – GNAT Academic Plan

- **Specific strategy dedicated to academics who use Ada in undergraduate/graduate courses**
- **Established 3 years ago**
- **Provide zero cost support for academics using GNAT for teaching purposes**
- **Website hosting for teaching materials and general Ada software, accessible by students and teachers, to foster the use of the language in teaching and research.**
- **Serve as a catalyst for the Ada academic community**



AdaCore and the Free Software movement

- **Adopted Free Software Foundation's copyright policy**
- **Long history of cooperation with the Free Software community**
- **Main GNAT sources now at FSF, part of GCC standard compiler suite**

The GAP software package

- **integrated binary distribution:**
 - The GNAT compiler and toolset
 - GPS : the GNAT Programming System
 - Integrated documentation in HTML format
- **Common platforms:**
 - MS Windows
 - Solaris
 - Gnu-linux
- **Source releases for important packages:**
 - Glade, polyorb, florist (distributed computing)
 - Gtkada, aws, xml/ada (GUI and web programming)
 - Asis (semantic interface system for program analysis)



GAP support

- **Periodic releases of new versions (based on wavefront compiler)**
- **Support through **GNAT Tracker**: web-enabled database of all queries / bug reports submitted by GAP participants**
- **Compiler supplied with up-to-date support for **Ada05** (ongoing)**



Contributions from the community

- **Web-hosted at ACT**
- **Source packages for additional tools**
- **Integrated binary distributions**
- **Teaching materials: slides, articles, documentation**
- **Programming exercises**
- **Your entry here**



What do we need, and who will do it?
