



Workshop on Using the NAG Numerical Library

Lecturer: Hector D. Flores
The Numerical Algorithms Group Ltd, Oxford, UK,
www.nag.com

November 3-4, 2008
Queen's University
HPCVL Main Offices, 993 Princess St., Suite 115
Kingston, Ontario

November 6-7, 2008
University of Ottawa
CUBE Building, 160 Louis Pasteur Dr., Room 202
Ottawa, Ontario

Registration 8:30 am, Lectures & Lab 9 am – 5 pm

HPCVL in collaboration with Numerical Algorithms Group (NAG) is hosting two 2-day workshops on Using the NAG Numerical Library, which is a comprehensive collection of mathematical and statistical algorithms for programmers and application developers. These routines are accessible from a variety of environments, including standard languages such as Fortran, C and C++, as well as packages like MATLAB, Maple and Excel, and provide a straightforward way to incorporate powerful, reliable and accurate algorithms into developers' applications. The training session will include an introduction to the functionality of the library, along with several examples of its use. In particular, it will highlight those routines which have been specially developed and tuned for use on Symmetric Multi-Processor (SMP) systems. Here is a brief outline:

Day 1:

1. Overview of the NAG Library, with notes on speed, accuracy, building a solution, working with the Library
2. An example in NAG Chapter, with special emphasis on linear algebra

Day 2:

1. Overview of NAG SMP Library, Parallel Library, with notes on special considerations for cluster computing
2. Brief introductions to other interfaces to NAG Library (.NET, JAVA, C++, MATLAB, EXCEL, R)

HPCVL provides its registered users with access to the NAG Numerical Library and IRIS Explorer on a variety of platforms, ranging from Solaris and Linux to Windows XP and MacOS. Completion of this workshop will count towards certificates in the framework of the HPCVL certificate program. This workshop is open to all and there is no registration fee.

For **registration**, agenda, and further details, please visit our website at
<http://www.hpcvl.org/training/>