Subject: VII edition of the ESC15 School (Efficiency in Scientific Computing)*Bertinoro (FC) - 26-31 October
Posted by StefanoSpataro on Tue, 16 Jun 2015 11:22:03 GMT
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The seventh edition of the INFN International School on "Architectures, tools
and methodologies for developing efficient large scale scientific
computing applications - ESC15"
will be held in Bertinoro (Italy) from the 26th to the 31st of October
2015.

The school is mostly targeted to PhD students, post-docs and young
researchers
who are actively involved with the development of scientific
applications and systems.
Familiarity and experience with basic concepts of modern OO languages,
in particular with C++ language, are desirable prerequisites to attend
the school.

The program of this year is structured along two main tracks:

The basics of efficient programming:

 * New processor architectures
 * Efficient floating point computation
 * Tools and methodologies for improving performance
 * Efficient exploitation of the C++ language
 * Managing memory usage

Parallel programming for scientific applications:

 * Introduction, OpenMP programming
 * GPU architectures and heterogeneous programming
 * Effective vectorization
 * Introduction to OpenCL and CUDA
 * Cluster computing

Lectures will be interspersed with tutorial and practical sessions,
providing opportunities for direct applications of optimization tools
and technologies as well as for interactions among students, lecturers
and tutors.

Detailed agenda and further information to apply to ESC15
are available on the school web site
https://web.infn.it/esc15/

The deadline for application is: *15 September 2015*.

Mauro Morandin
On behalf of the International Scientific Committee