EuroTools

Software Tools for Computational and Data Intensive Applications

Funded by the European Commission
Esprit Working Group # 27141

EuroTools in Short

- Esprit WG # 27141
- Created on April 15, 1998
- 17 Members, 6 Associated Members

Original Goal

- Increase the use of European Software Tools for HPCN
  - shift from traditional HPCN towards computational and data intensive applications in general

Objectives

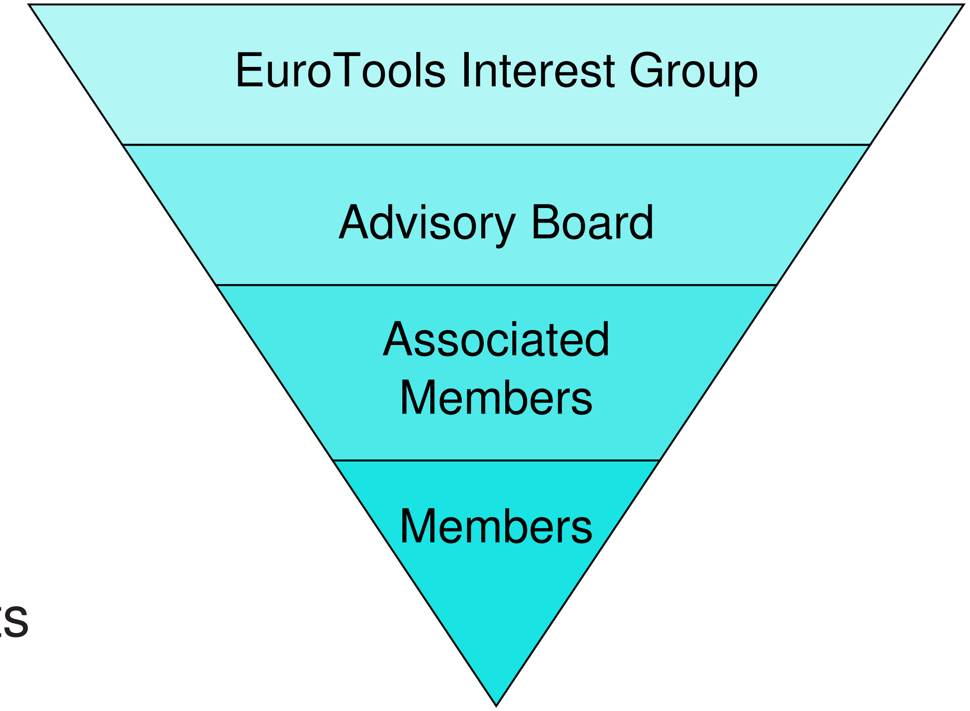
- Help end-users and tool developers to communicate and exchange ideas
- Establish collaborations among designers, developers, vendors, and users of European HPCN tools
- Increase the visibility and use of European HPCN software, both inside and outside Europe
- Identify emerging trends in HPCN technology

Structure of EuroTools

Logical Structure:

- General Interest Group
- Special Interest Groups:
  - OpenMP & HPF
  - PVM & MPI
  - Object Oriented Technologies
  - Metacomputing
  - Problem-Solving Environments
  - Java

Physical Structure:



New SIGs

- Metacomputing
  - tools for computing in intra-, extra- and internet GRIDs
- Problem-Solving Environments
  - for scientists / engineers in specific application domains
  - specification, rapid prototyping, execution, visualization
- Java
  - complements and cooperates with JavaGrande Forum
  - focus: services and tools for high performance applications

Working Group Members

Companies		Computing Centers		Research Laboratories	
ACE	(NL)	CNUCE-CNR	(I)	INRIA	(F)
GENIAS	(D)	CSCS/SCSC	(CH)	Research Center Jülich	(D)
N.A. Software	(UK)	ONERA	(F)	Lund University	(S)
PALLAS	(D)	VCPC	(A)	GMD	(D)
SIMULOG	(F)			TU Dresden	(D)
				TU Munich	(D)
				Queens Univ. Belfast	(UK)
				Univ. Southampton	(UK)

Associated Members

Companies	Research Laboratories	
Fujitsu FECIT (F)	MTA SZTAKI	(HU)
	Warwick University	(UK)
	Univ. Nova de Lisboa	(P)
	Univ. Portsmouth	(UK)
	Univ. of Wales, Cardiff	(UK)

Achievements

- Create awareness
  - both inside and outside Europe
    - Ptools, booth at SC'99, ...
- Increase the visibility of European industry and research
  - web site:
    - `http://www.irisa.fr/EuroTools`
    - soon: `http://www.eurotools.org`
  - conferences and workshops
    - HPCN'98/99, EuroPar'98/99, EuroPVM/MPI'89/99, HUG'98/99, EWOMP'99, ECOOP'98/2000, PDP 2000, ...

Achievements

- Help end-users and tool developers to communicate
  - HPF users' group, PVM/MPI users' group, ...
  - questionnaire
- Cooperations with existing projects and organizations
  - HPCnet, EuroPVM/MPI, Ptools, Java Grande, ...
- “Spin off”
  - APART Working Group on automated performance analysis

Upcoming Events

- Supercomputing 1999, Portland, OR, USA, 13.-19.11.99
  - EuroTools booth at the SC'99 exhibition
  - Apart workshop on automated performance analysis
- First European Workshop on OpenMP EWOMP'99
  Lund, Sweden, 30.9.-1.10.99

Call for Contributions

- Register your tool in our database
  - we want to create the largest tool catalogue
  - get your tool listed for free
    - `http://www.irisa.fr/EuroTools/Tools/add.tool.top.html`
- Contact EuroTools members
  - contribute to the activities of EuroTools
  - suggest new activities, collaborations, ...