Welcome from Working Group 2.5

ifip

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International Federation for Information Processing

- a non-governmental, nonprofit umbrella organisation of national societies working in the field of Information Technology

- established in 1960 under the auspices of UNESCO as a result of the first World Computer Congress held in Paris in 1959

- Represents IT Societies from 55 countries or regions, covering 5 continents with a total membership of over half a million

- Links more than 3500 scientists from academia and industry, organised in 97 Working Groups reporting to 13 Technical Committees

- Sponsors 100 conferences yearly

Technical Committees

TC1   Foundations of Computer Science

TC 2   Software: Theory and Practice

TC 3   Education

TC 5   Computer Applications in Technology

TC 6   Communication Systems

TC 7   System Modelling and Optimization

TC 8   Information Systems

TC 9   Relationship between Computers and Society

TC 10   Computer Systems Technology

TC 11   Security and Protection in Info Processing Systems

TC 12   Artificial Intelligence

TC 13   Human-Computer Interaction

SG16   Specialist Group on Entertainment Computing

Technical Committee 2

Software: Theory and Practice

Working Groups

WG 2.1   Algorithmic Languages and Calculi

WG 2.2   Formal Description of Programming Concepts

WG 2.3   Programming Methodology

WG 2.4   Software Implementation Technology

WG 2.5   Numerical Software

WG 2.6   Database

WG 2.7   (= WG 13.4) User Interface Engineering

WG 2.8   Functional Programming

WG 2.9   Software Requirements Engineering

WG 2.10   Software Architecture

WG 2.11   Program Generation

WG 2.12   Web Semantics

WG 2.13   Open Source Software

`http://www.ifiptc2.org/`

Working Group 2.5

Numerical Software

- *Aim:* to improve the quality of numerical computation by promoting development and availability of sound numerical software

- 37 years old

- 31 members from 13 countries (plus 18 affiliates)

WG 2.5 Activities

- Promote information exchange, awareness

- Participation in standardization/improvement processes for languages, libraries, tools

- Joint book: *Accuracy and Reliability in Scientific Computing, 2005,* (Bo Einarsson, Ed.)

- Meetings, workshops and conferences

WG 2.5 Meetings

- ## Recent venues

  – Hong Kong, 2005

  – Uppsala, 2007

  – Toronto, 2008

  – Raleigh, 2009

  – Leuven, 2010

- ## Associated workshop

  – Opportunity to promote WG 2.5 interests and to hear about regional activities, concerns

Working Conferences

- Nine held

- Published proceedings (IFIP Press)

- Topical, recent examples …

  – *The Architecture of Scientific Software*, Ottawa, 2000

  – *Grid-based Problem-Solving Environments*, Arizona, USA, 2006

  – *Uncertainty Quantification in Scientific Computing*, Colorado, USA, 2011

For more information on WG 2.5, see

http://www.nsc.liu.se/wg25/