HSF: Other Activities and News

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for the HSF Startup Team

HSF - iFB: 9th meeting, CERN, June 24 2015

HSF Working Groups

Working Group	Objectives	Forum - Mailing list
Training	Organization of training and education, learning from similar initiatives	hep-sf-training-wg
Software Packaging	Package building and deployment, runtime and virtual environments	hep-sf-packaging-wg
Software Licensing	Recommendation for HSF licence(s)	hep-sf-tech-forum
Software Projects	Define incubator and other project membership or association levels. Developing templates	hep-sf-tech-forum
Development tools and services	Access to build, test, integration services and development tools	hep-sf-tech-forum
Communication and information exchange	Address communication issues and building the knowledge base Technical notes	hep-sf-tech-forum

Software Projects

- The essence of the Foundation are the **Software Projects** under its umbrella
    - HSF should not enforce any particular software process, project management or methodology, however packages should conform to some standards to facilitate integration
- Defined preliminary Project Guidelines
    - Project name, public repository, web site, issue tracker, version naming, mandatory documentation, best practices,...

Software Projects (2)

- The idea is to develop a **project template** implementing these guidelines
  - For example using the PODIO project (Toolkit for Event Data Models) as guinea pig developed under the AIDA 2020 (see later)
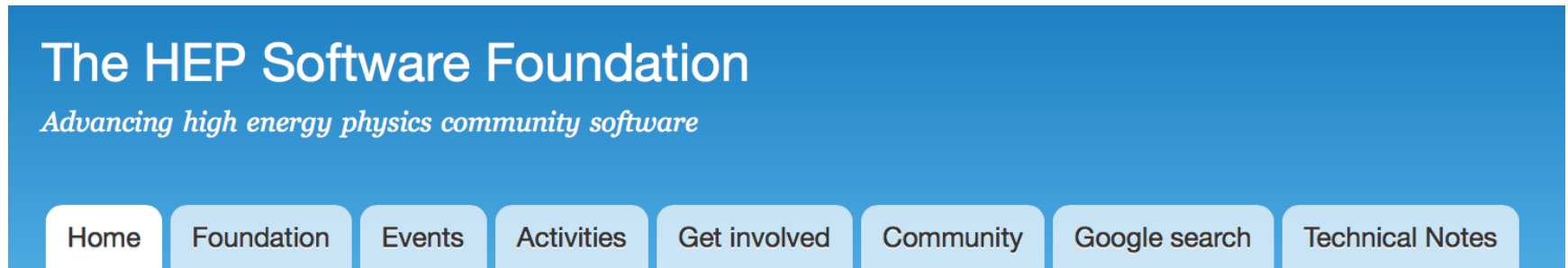
Development Tools and Services

- Not much progress
- Offer from TechLab (Okinawa meeting)
  - Willing to support the goals of the HSF
  - Offer access to its systems
  - Collaborate with other organisations with similar systems
  - Participate in joint initiatives
- Plan to set up services such as Coverity (static code analyser)
  - Provide analysis report for any HEP software project

Communication and Information exchange

- HSF website
- Google groups for email/web discussion forums
- Software catalog and knowledge base
- Technical Notes
  - Covered by Andrew's slides
- Discussion Fora
  - **Concurrency Forum**
    - Technical issues to embrace concurrency in our software
    - Ongoing activity
  - **Reconstruction Algorithms Forum**
    - All matters of event reconstruction and pattern recognition
    - Not yet really started
- HSF Newsletter
  - New proposal (see later)

HSF Website

- http://hepsoftwarefoundation.org

- New Main pages (tabs)
  - **Community**
    - HEP software and computing job offers
    - Other projects related and/or relevant to the HSF
  - **Technical Notes**
    - Easy access to TNs

Mailing Lists: Update

- HSF Forum
  - http://groups.google.com/d/forum/hep-sf-forum
  - 114 members
- HEP S&C community website
  - http://groups.google.com/d/forum/hep-sw-comp
  - 222 people have signed up, a small increase from the 163 pre-workshop
- Other specialized lists
  - Training - hep-sf-training-wg
  - Packaging - hep-sf-packaging-wg
  - General HSF technical discussion forum - hep-sf-tech-forum

- Reminder: Google-free self-signup to lists
  - Simply send a mail (subject and content irrelevant, can be empty) to <listname>+subscribe@googlegroups.com, e.g. for the list above, hep-sw-comp+subscribe@googlegroups.com
- See the 'Get involved' page on the website for details

Software catalog and knowledge base

- Currently implemented in Drupal but we are convinced that this solution is not scalable
  - Links between projects/packages/experiments
- Looking for a better solution

  - Torre has demonstrated that database contents can be exacted very easily and move somewhere else
  - We need to decide where is the final destination
- MediaWiki is clearly one possibility
- GitHub Pages/Jekyll are also very appealing
- We need to have somebody to start working on the new system

HSF Newsletter

- An attempt to improve the communication about what we do
  - probably our minutes are not read by many…
- Thus the idea of a curated information distributed as a HSF newsletter
- Monthly?
- We probably need to do it once to make an example of what it could be
- Any comments/suggestions?

HSF Related or Relevant Projects

- AIDA-2020
- DIANA

AIDA-2020

- Advanced European Infrastructures for Detectors at Accelerators
  - 4-years EU funded project, started June 2015
- HSF and AIDA 2020 - major synergies expected
  - The HSF aims to promote commonality and collaboration in new developments
  - AIDA WP3 (Advanced software) aims to develop common software packages
- It would be very natural that WP3 software packages be an integral part of the HSF
  - Benefiting from project templates, packaging and distribution, training, development tools, knowledge sharing, information exchange, etc.
  - Acting as 'guinea-pigs' projects

DIANA

- DIANA (Data Intensive ANAlysis)
- 4-year project funded from May 2015 by US National Science Foundation (NSF)
- Focus on analysis software, including ROOT and its ecosystem
- Three primary goals:
  - performance
  - interoperability
  - support for collaborative analysis
- PIs: Elmer (Princeton, CMS), Sokoloff (Cincinnati, LHCb), Cranmer (NYU, Atlas), Bockelman (U.Nebraska-Lincoln, CMS/OSG)
- Test case for wider collaboration around existing software packages

Next HSF Workshop

- Progress in Working Groups
- Software Projects presentations
- Any ideas on dates and location?

Conclusions

- We have made progress in some areas but on a lower pace than anticipated
  - See reports today of working groups
- Areas not yet covered for which we would like to have more help are:
  - Engagement of some software projects and development a project template
  - Migration of software catalog and knowledge base to a new system ensuring sustainability and completeness
- Please join and contribute to any of the working groups, the startup team, discussion fora
  - subscribe to the fora to follow progress and contribute