



Enabling Grids for E-scienceE

# Developing YAIM modules for Sun Grid Engine (a look from the outside)

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[www.eu-egee.org](http://www.eu-egee.org)



YAIM



- We want to share our SGE/gLite integration work but...
  - Admin of 3 Production sites and 1 Pre-Production site
    - T2 LIP-Lisbon (EGEE, EELA); PPS-LIP (EGEE)
    - LIPI2G-Lisbon (Int.EU.Grid)
  - Admin of several core services
    - RB, WMS, Top-BDII, LFC for E
    - RB, Top-BDII, LFC, VO
  - ROC EGEE/SWF
    - Support
  - Lead
  - ...which can not be transformed on an Herculean job!
  - ...which can give a contribution....
- YAIM must be sufficiently easy & straightforward...
  - ...else people will just run away from this work...



- **Documentation too spread, maybe not too well organized**
  - **YAIM Home Webpage** (the front door for YAIM)
    - I would try to organize it in 2 two sections
      - **YAIM for site admins**
        - YAIM Guide 3.1.1 / YAIM Guide 4.0.0 Webpage
        - But deprecate the 2 guides asap!
      - **YAIM for developers**
        - YAIM Developers Webpage
        - YAIM Certification Webpage
        - YAIM Planning Webpage
    - Links to other webpages clearly visible
      - *I do not want to read the whole section to find the proper link*
    - The info is not coherent at all places at the same time all the time
      - *Coordination effort on documentation...*



- **Documentation too spread, maybe not too well organized**
  - **YAIM Guides**
    - Table mapping the Production releases with YAIM modules versions
      - *Similar to what is done in the Planning Webpage*
  - **YAIM Developer/Certification Webpages**
    - Overall procedures and certification methods not clear...
      - *We build the YAIM modules and... What's next?*
      - *What should be included in the certification patches?*
      - *How do we check the certification status of our patches?*
  - **YAIM Planning Webpage**
    - Minor releases for YAIM 3.0.1
      - *From 3.0.8 (26/02/2007) to 3.0.21 (15/06/2007)*
      - *Really hope that doesn't happen in YAIM 4.0.X*
- **Tools for YAIM Developers**
  - **CVS, ETICS, Savannah**
    - Does the YAIM developer has to know everything about every tool?
    - How about some unique tool?
    - Use examples for these tools usage as much as possible!



- **The YAIM structure itself**
  - **The modular structure (really the right way!)**
    - Isolates bugs and problems
    - Easy to integrate new nodes/YAIM modules
      - *Extra carfull about dependent modules*
        - glite-yaim-lcg-CE with glite-yaim-sge-server, glite-yaim-sge-utils
        - glite-yaim-clients with glite-yaim-sge-client
  - **The standarization:**
    - The directory hierarchy; the files structure
      - *Clear separation of environment variables from functions*
      - *The “config\_<something>\_check” function*
      - *The common Specfiles and Makefiles*
    - Peek up other people work on other modules
      - *An example is much better than any documentation*



- **There are some nice pieces of documentation**
  - **The YAIM Developer Guide**
    - “Things to Remember” and “Useful Bash” sections
  - **The YAIM Planning webpage**
    - Nice and simple; Starts with a table rather than text
  
- **The “Pacience” and Support**
  - **Thanks to Maria and Oliver...**
    - Answering “naive” questions from a physicist...
  - **Some statistics...**
    - First contact with Maria on 06/06/2007;
    - YAIM SGE modules ready on 13/09/2007
      - *Patches still have to go through certification*
    - 51 emails sent by myself
      - *Destination: Maria, Oliver or glite-yaim emailing list*
        - Troubles with CVS/ETICS and other general questions: 15
        - Understanding YAIM structure/ Modules dependences: 22
        - Understanding the certification process: 14



- **No clear explanation on modules structure**
- **Confusion between Yaim 4.0/3.0**
- **Depending modules**
  - More than 50 emails sent by myself
    - Destination: Maria, Oliver or glite-yaim emailing list
- **YAIM SGE modules ready on 13/09/2007**
  - SGE plugins still going through certification

