SAMPy

A pure Python implementation of SAMP

Luigi Paioro
INAF – IASF Milan

SAMPy context

- OPTICON Network 3.6 in collaboration with US NVO
  - Network fundings by EU, FP6
    - New FP7 fundings
  - Discuss the requirements for a Future Astronomical Software Environment (FASE)
- Production
  - Requirements document
  - Architectural document
    - Implies a messaging system
  - Interfaces document
- Poster at ADASS 2008 (Tody, Grosbol et al.)

MIMA prototype

- Project developing model
  - Spiral model
  - Prototyping to get feedbacks
- Milan-Marseille prototype
  - INAF IASF Milano
    - Bianca Garilli
    - Luigi Paioro
  - OAMP LAM Marseille
    - Christian Surace
    - Thomas Fenouillet
- MIMA base
  - Enhance VIPGI reduction software plugging it in a global framework (Python and C code)

Then SAMPy

- SAMP selected as messaging system for the MIMA prototype
- Hub implementation
  - Supports all the standard (so far) features
  - Fully interoperable with JSAMP
  - Adds custom features for MIMA
    - HTTPS (Secure Socket Layer)
    - Basic Authentication
    - Multiple concurrent hubs
- Client toolkit
  - Allows to easily create a callable client
  - Allows to easily interact with the Hub and with the other registered client

Something more on SAMPy

- Temporary address:
  - http://cosmos.iasf-milano.inaf.it/luigi/projects/vo/samp
  - will be soon put on a more formal site
- Present release: 1.0 alpha 4
- Future plans
  - follow the SAMP protocol future changes
  - build a SAMPy Python interactive shell which makes even simpler the interaction of a Python script/shell with any SAMPized application
- Demo