Abstract

The new OPTICON Network 9.2 (FP7) is working on a concrete prototype of shared astronomical software environment for scalable and desktop systems (FASE). A prototype of packaging system has been defined that allows to include the new softwares and tools as well as major legacy systems (e.g. AIPS, CASA, IRAF/PYRAF, Starlink and ESO Common Pipeline Library) within FASE environment has been developed and here presented.

FP7 Network

The high level requirements and the main architectural design have already been defined within the OPTICON Network 3.6 in collaboration with NRAO/USVAO, financed by the EU FP6 framework. OPTICON Network 9.2 (FP7) has been set up to make available to the community FASE prototype leading to an eventual reference implementation of the basic core system, as well as a packaging system. Several papers have been published during these years providing information on evolution and activities of this framework. [2]

Packaging system

To package a tool, the user has to give some information. This is the initial panel of the FASE packaging wizard.

This panel allows the user to select the root directory where the program is to be located.

These panels allow the user to define the different operations the component can perform (general information, launching command line with parameters and outputs). In the case of tool component, the list of associated run modes (as previously defined) is proposed. The user can then define adapters, in order to box SAMP messages to component jobs.

This panel allows to export the component document in a PDF file which describes the component and the way it works. The user can export as well the package document (which includes the distributed component) to be completed by the protocol adapter.

Conclusion

• During past years the FASE project has defined the concepts of the architecture for a future shared astronomical software environment, taking into account the previous and still widely used reduction and analysis legacy softwares. A packaging system prototype has been developed in order to demonstrate the concepts defined in the FASE architecture. Such packaging system prototype allows to easily plug legacy programs within the FASE framework. Many tests to plug commonly used legacy softwares and to develop new software using the framework facilities are undergoing.

• This software is freely available on request to the authors.

References

[1] https://www.eso.org/wiki/bin/view/Opticon/Website
[3] CeSAM : Poster 013 : this meeting

http://www.eso.org