GAUSSIAN INTERFEROMETER SYSTEMS

The ALMA Common Software (ACS) is a CORBA-based framework that provides a common and homogeneous infrastructure for the whole ALMA software. It allows applications to communicate with each other independent of the hardware. ACS modules provide a common configuration control/installation procedures. It aims at providing an answer to the following needs:

- common application framework and programming model, not just libraries
- standardization offering environment with design patterns and their implementation (rather than pure rules)
- well tested software that avoids duplications
- make upgrades and maintenance reasonable
- incremental development via releases
- common configuration control/installation procedures

This paper focuses on ACS support for the development of Control System Domains. In this domain, ACS provides a generic abstraction of hardware control and monitor points that is independent of the hardware underneath. This abstraction layer is coupled to the hardware using the DevIO (Device Input/Output) interface, based on the bridge design pattern. Application developers have to implement DevIO classes that handle the details of the communication with the hardware.

ACO

http://www.eso.org/projects/alma/develop/acs