



ACS Community Branch Who we are, and what can YOU do

Arturo Hoffstadt Urrutia <ahoffsta@alma.cl> ALMA Observatory





What is ALMA Common Software (ACS)

Control and monitoring software framework developed by ALMA for its own communications. It's consists in a bundle of already available software (such as CORBA ORBs, ACE, java libraries) newly provided solutions (nc, monitoring, cdb) and tools that allows us to develop solutions based in the component/container architecture.





What is ACS Community Branch (ACB)

A completely open source control and monitoring framework, useful not only for ALMA, but for the entire astronomy and control community.Maintained and extended by its own users and enthusiasts.



A completely open source ...







... control and monitoring framework, ...





... useful not only for ALMA ...





... but for the entire astronomy and control community.





Maintained and extended by its own users and enthusiasts.



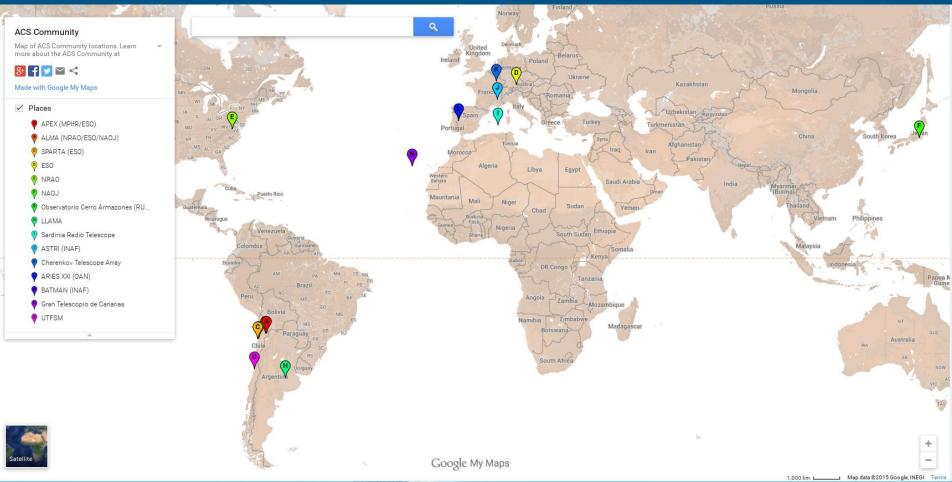


... we hope you! :D





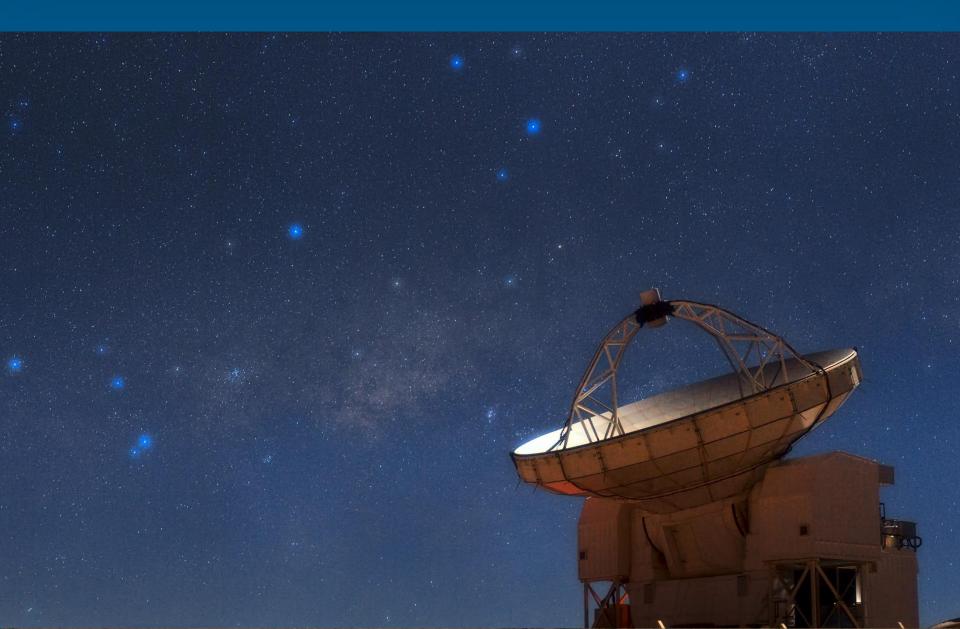














ALMA Observatory ALMA



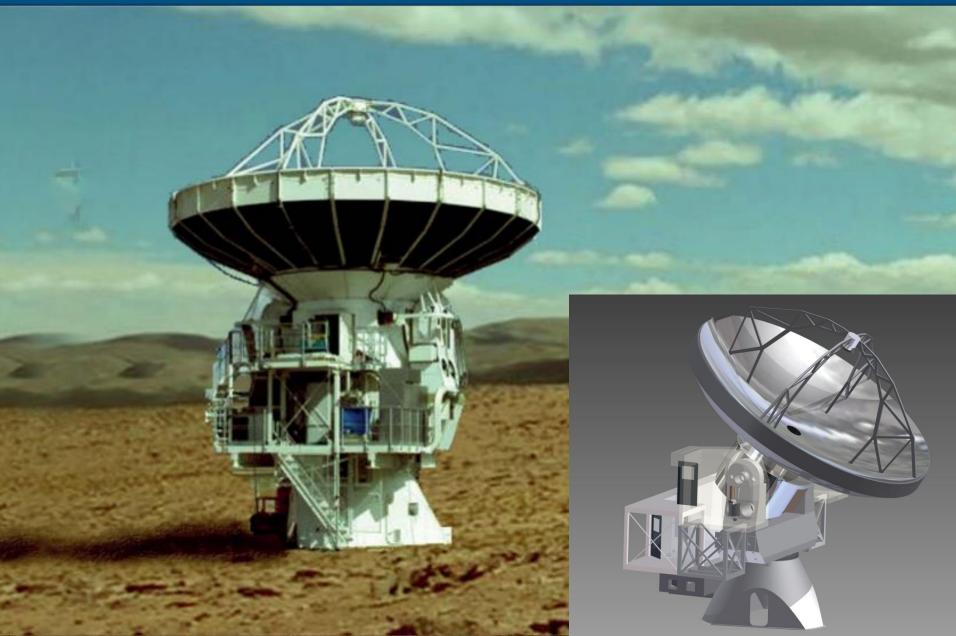


Credit: Christoph Malin, an ESO Photo Ambassador



ALMA Observatory







ALMA Observatory CTA









ALMA and Universities

- An important goal for ALMA is to generate knowledge transference with universities.
- Students gain experience in software engineering while being inside the challenging astronomy industry.
- Students gains visibility and curriculum for their resume. Even for jobs outside of the industry is a good entry.





What are our projects in ACB https://github.com/ACS-Community/ACS/wiki/Project-Proposals







Achieve a complete Continuous Integration

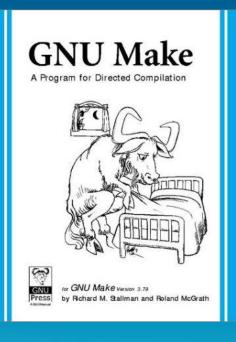






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Porting to other platforms











HW and BACI Languages support









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Code generation for all languages













TMCDB tools, and other DB backends









MySQL.





Provide databases backends for monitoring













Open source alternatives for Bulk Data Transfer













Alternatives for Notification Channel













To introduce more members to the community







Opportunities for Students







- Summer internships (práctica): every year there is a call for interns. Next one this year!
 - Announcement in september 2015 (www.almaobservatory.cl)
- Undergraduate and grad theses.
- Internship (pasantía): opportunity to either work in ALMA or LLAMA while obtaining your degree.





You convinced me, I want to help...







and I don't have any ideas?

See this wiki page for project ideas: https://github.com/ACS-Community/ACS/wiki/Project-Proposals





and I do have a particular idea to add to the ACS framework Excelent! Just do it! We only ask to put yourself in contact with the Technical Board, and for minimal documentation for its future maintenance of the project. Fork and when done, send us the pull request.





and I do have a particular idea that uses the ACS framework

- Excelent! We totally support these projects, and the more users we and in the ACS Community Branch, the better.
- We can provide you with insights, and answers questions on ACS usage.





and I would like to help an ongoing project?

Make contact witht he person in charge of the project in question. (look for the corresponding ticket in <u>https://github.com/ACS-</u> Community/ACS/wiki/Project-Proposals)

They will more than welcome you :D



Further information: http://www.almaobservatory.org

Contact point: ahoffsta@alma.cl

The Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, is a partnership of Europe, North America and East Asia in cooperation with the Republic of Chile. ALMA is funded in Europe by the European Organization for Astronomical Research in the Southern Hemisphere (ESO), in North America by the U.S. National Science Foundation (NSF) in cooperation with the National Research Council of Canada (NRC) and the National Science Council of Taiwan (NSC) and in East Asia by the National Institutes of Natural Sciences (NINS) of Japan in cooperation with the Academia Sinica (AS) in Taiwan. ALMA construction and operations are led on behalf of Europe by ESO, on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI) and on behalf of East Asia by the National Astronomical Observatory of Japan (NAOJ). The Joint ALMA Observatory (JAO) provides the unified leadership and management of the construction, commissioning and operation of ALMA.

Thanks! Questions?