

AIPS++/CASA information & support

The word "CASA" is rendered in a stylized, blue, 3D font with a metallic or glossy texture. The letters are slightly shadowed, giving them a three-dimensional appearance as if they are floating or attached to a surface.

Motivation:

- AIPS++/CASA is a very complex system
- The official documentation does not cover a lot of problems/situations a user might run into
- Need recipes for common tasks

History:

- Additional documentation started for the LOPES-Tools software and its users
- Originally hosted on private Wiki – now hosted via USG Wiki

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Where to go? usg.lofar.org

The screenshot shows the LOFAR User Software Group website. The header is a blue banner with the text "LOFAR User Software Group". Below the banner is a breadcrumb trail: "Trace: » building_casa_modules_using_cmake » casa » installation » index".

The left sidebar contains several navigation sections:

- USERS**
 - Libraries
 - Packages and Tools
 - Wiki help
- DEVELOPERS**
 - Getting started
 - Code repository
 - Environment & Tools
 - Supported platforms
 - Testing
 - Interface control documents (ICDs)
- LIBRARY**
 - Key Science Projects
 - Minutes from meetings
 - Presentations
 - Glossary
- INTERNAL**
 - Activities
 - Reports
 - Specifications
 - Work packages
 - Statements of Work
 - Personnel
- RELATED PAGES**
 - USG CODE
 - USG DOXYGEN
 - USG WEBSTATS
 - USG FORUM

Below the sidebar is a search box and a "Search" button. At the bottom left, there is a "Logout Lars Baehren" link.

The main content area has a "Welcome" section with a heading and a paragraph: "Welcome to the test installation of the Webpages for the LOFAR User Software Group (USG). At the moment this collection of pages is nothing but a playground, but in the near future there will be increasing amount of contents".

Below the welcome message are three paragraphs of text:

The LOFAR User Software Group represents a collaborative effort between the LOFAR project and the scientific community as represented by the Key Science Projects (KSPs). It is intended to serve both a coordination role as well as contribute to the project software development. The USG effort is overseen by the LOFAR Science Office (LSO) and will ultimately include a mix of developers and scientists from the LSO, the LOFAR Engineering Group (LEG), and each of the KSPs.

The primary task of the USG is to work with the LOFAR engineering and calibration groups and the KSPs to provide a coherent set of software for scientific investigations with LOFAR. This remit can include a variety of activities including software development, prototyping, algorithm specification, documentation, and testing. The specific activities of the USG are designed to support the scientific programs of the KSPs and, by extension, ultimately the needs of the general LOFAR user.

The final result of the user software project will be a software bundle containing a mix of software developed by the LOFAR engineering group, adapted 3rd party software, and newly developed tools which allow users to reduce and analyse LOFAR data. In addition, the USG performs the following functions:

- Coordinate KSP software development with the LOFAR engineering and calibration groups
- Coordinate software development with contributing national and international partners
- Identify and support common development tasks among the KSPs
- Provide tools and software of general use to all KSPs
- Evaluate and integrate third-party software
- Provide scientific requirements for standard products and formats
- Provide guidelines for development and documentation of software
- Check compliance to these guidelines
- Develop testing tools and procedures
- Compile general documentation
- Maintain a generally accessible software repository
- Represent the interests of the LOFAR user community in other software consortia

At the bottom of the main content area, there is a footer: "index.txt · Last modified: 2006/12/18 11:14 by baehren".

At the very bottom, there is a navigation bar with buttons for "Edit this page", "Old revisions", and "Backlinks".

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And where to go from there? [Packages and Tools](#)

The screenshot displays the LOFAR User Software Group website. The main navigation menu on the left includes sections for USERS, DEVELOPERS, LIBRARY, INTERNAL, and RELATED PAGES. The 'USERS' section is highlighted with a pink box, and an arrow points from it to the 'Packages and Tools' link. Another arrow points from 'Packages and Tools' to the 'General astronomical packages' section on the right. This section contains a list of packages, with 'CASA (Common Astronomy Software Applications)' highlighted in a pink box. Below this, there are sections for 'LOFAR (related) packages' and a footer with a search bar and user information.

LOFAR User Software Group

Trace: » building_casa_modules_using_cmake » casa » installation » index » packages_and_tools

USERS

- Libraries
- Packages and Tools**
- Wiki help

DEVELOPERS

- Getting started
- Code repository
- Environment & Tools
- Supported platforms
- Testing
- Interface control documents (ICDs)

LIBRARY

- Key Science Projects
- Minutes from meetings
- Presentations
- Glossary

INTERNAL

- Activities
- Reports
- Specifications
- Work packages
- Statements of Work
- Personnel

RELATED PAGES

- USG CODE
- USG DOXYGEN
- USG WEBSTATS
- USG FORUM

Index
Recent changes

Search

Logout Lars Baehren

General astronomical packages

- CASA (Common Astronomy Software Applications)**
Related to this is the possible creation of an [ASTRON AIPS++/CASA User Group](#)
- ROOT

LOFAR (related) packages

- LOPES-Tools (High-energy cosmic rays)
- MeqTrees

software/packages_and_tools.txt · Last modified: 2007/01/30 15:41 by baehren

Edit this page Old revisions Backlinks

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What can I find there?

- Installation instructions
- Coding against CASA
- Libraries and moduls
- Using individual tools
- Known problems



The screenshot shows the LOFAR User Software Group website. The main heading is "LOFAR User Software Group". Below it, there is a breadcrumb trail: "Trace: » building_casa_modules_using_cmake » installation » index » packages_and_tools » casa". The page is divided into several sections:

- USERS**
 - Libraries
 - Packages and Tools
 - Wiki help
- DEVELOPERS**
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 - Glossary
- INTERNAL**
 - Activities
 - Reports
 - Specifications
 - Work packages
 - Statements of Work
 - Personnel
- RELATED PAGES**
 - [USE CODE](#)
 - [USE DOXYGEN](#)
 - [USE WEBSTATS](#)
 - [USE FORUM](#)

The main content area is titled "CASA (Common Astronomical Software Applications)". It features a large "CASA" logo and a "Table of Contents" sidebar with the following items:

- CASA (Common Astronomical Software Applications)
- Installation
- Code development
- Usage
- Modules & Tools
- Glish
- Documentation

The main text describes CASA as a software system for the reduction, display and analysis of radio-astronomical data. It mentions that the current effort builds upon libraries developed by the AIPS++ consortium and provides a completely revised user interface using Python/iPython. It also notes that the software is currently in Alpha release and is undergoing testing by scientists internal to the ALMA/EVLA projects and also by the ALMA Pipeline subsystem (approximately 10 astronomers) for algorithmic development. It is expected that the core functionality will be implemented after tests and usage by the ALMA/EVLA projects in December 2006 and March 2007.

There are several links and sections on the page:

- [CASA status](#)
- [Build Status](#)
- [Regression status](#)
- Installation** (with an "Edit" button)
 - Installation of CASA:
 - Preparation: Required external software
 - Installation on Mac OS X
 - Installation on Debian (stable)
 - Installation on SuSE 9.1
 - Installation on SuSE 10.1
 - Installation on Fedora
 - Troubleshooting for a number of problems which can show up during the installation process
 - The data repository
- Code development** (with an "Edit" button)
 - Libraries and Modules
 - Class hierarchy
 - Preprocessor and compiler flags
 - Template instantiation

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How to continue?

- We will keep on using this as central point where to collect everything related to AIPS++/CASA
 - Move information from other sites here (e.g. LOFAR Wiki, Adriaan's Wiki)
 - Spread the word and get people to contribute
- The issue at hand goes way beyond the scope of CS-1
 - Get all people/groups at ASTRON & JIVE together which are (a) developing, (b) building against and (c) using AIPS++/CASA
 - We need to know what is happening other places (other EVN instituts, ATNF, etc.)