

# CASA 3rd Party Packages

Current System and Planned Changes

Incomplete

# CASA 3rd Party Packages

## CASA 4.2.0 Must Run On

- Debian 7
- Fedora 17
- OS X 10.7
- OS X 10.8
- Redhat 5.7
- Redhat 6.3
- Ubuntu 12.04 LTS
- "Generic Linux"

To find problems early, we want to build and test on these systems as well.

# CASA 3rd Party Packages

- Current System
  - Different people have been responsible for Linux and OS X
  - They did what they thought was best for their users
  - Packages are updated inconsistently
  - Packages are installed inconsistently on Redhat 5.x and OS X.
  - Criteria for when packages change and who decides are not defined
- Moving to a more formal, consistent system

# CASA 3rd Party Packages

## Policy

- CASA will use host OS versions of 3rd party packages unless:
  - A package is not available from host OS repositories
  - A package is broken in host OS repositories
  - A package is too old in host OS repositories
  - A package is too new in host OS repositories
- Criteria for broken, too old, or too new depend on the cost of adapting CASA to the existing package
- CASA will provide packages as necessary to work around these issues

# CASA 3rd Party Packages

## Policy Benefits and Costs

- Minimizes the number of 3rd party packages CASA distributes
- Increases the need for early cross platform testing to test CASA with several versions of the same 3<sup>rd</sup> party packages

# CASA 3rd Party Packages

## CASA provided 3rd Party Packages

- Shall not override, replace, or break host OS packages
- Where possible, CASA packages shall be installed using the host OS package manager
  - OS X does not have one. We are considering MacPorts
- Shall be installed in a versioned tree (by default, in `/opt/casa/`)
  - Examples
    - `/opt/casa/4.2.0/3rdParty/1`
    - `/opt/casa/4.2.0/3rdParty/2`
    - `/opt/casa/4.3.0/3rdParty/1`
  - This allows us to upgrade 3<sup>rd</sup> party packages without breaking other work in progress
  - This is consistent with the UNIX convention of installing self contained packages in `/opt/`

# CASA 3rd Party Packages

- A whole bunch of work is TBD
- Shinnosuke Kawakami and I will work out details next week

# CASA 3rd Party Packages

- Questions?