SUSSA-SRT Documentation

Release 0.1 0.1a1

SUSSA team

Jun 21, 2017
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Planning tools</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>(Quicklook) Analysis Software in antenna</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Data formats (to be?) supported</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Catalogs</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>Developer Documentation</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>5.1 Create a Docker container</td>
<td>9</td>
</tr>
<tr>
<td>6</td>
<td>Indices and tables</td>
<td>11</td>
</tr>
</tbody>
</table>
CHAPTER 1

Planning tools

• CASTIA
• basie (schedule creator)
• Exposure Time Calculator
(Quicklook) Analysis Software in antenna

• CASA
• IDL + idlastro (http://idlastro.gsfc.nasa.gov/)
• GILDAS
• Miriad (http://www.atnf.csiro.au/computing/software/miriad/)
• GBTIDL

• **Pulsar tools:**
  – presto
  – tempo
  – tempo2
  – PINT
  – sigproc
  – sixproc
  – dspsr
  – psrchive
  – cdmt?
  – accelsearch_gpu?

• NOD-3
• PySDT - SRT Single Dish Tools (Imager, Calibrated light curves)
• SuperMONGO
CHAPTER 3

Data formats (to be?) supported

- nuragheFits
- gildas
- sdfits
- psrfits
- HDF5?
Catalogs

- psrcat
- Flux and polarization calibrators

Propose new software or data formats here!
This is the (in-development) developer documentation for the user support software at SRT
See our Github repository, submit issues, interact!
Explore our working Docker images

Create a Docker container

- First of all: learn by example! Check out a few examples.
- Create a new repository in the SUSSA-SRT organization
- Create a file called `Dockerfile` with the right instructions (see examples above).
- Then, log in to Docker Hub, click on Create->Create Automated build->Github button->SUSSA-SRT->repository
- Wait for the build to complete! Depending on the software packages you are compiling, it might take the time of a few coffees, including toasting and grinding each coffee bean.
CHAPTER 6

Indices and tables

• genindex
• modindex
• search