

ALMA Science

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What is the best way to view the weblog?

Sarah Wood - 2022-01-25 - General ALMA Queries

For Mac OS and linux users the recommended internet browser to use for full functionality of the pipeline weblog viewing is Firefox.

Since 2021 the ALMA pipeline (2021.2.0.128) using CASA 6.2.1-7, weblogs are also viewable with Chrome and Safari browsers. However, due to various browser security options, total functionality of the weblogs may not be available by default.

Weblog interface errors can include not opening or loading: linked files, the 'by topic' or 'by task' pages, sub-plots and sub-pages - due to an inability to find the correct reference html page links. There may also be issue to produce all plots, and or the radio direction buttons and side bar links. Note, for older Pipeline datasets using e.g. < CASA 5.6.1, Firefox remains the advised browser to use.

Please take note: sometimes there can be errors when using a browser to open the weblog.

The locally saved Pipeline weblog opens the index page correctly in the browser, but when clicking to navigate further within the weblog an error page displayed, reading e.g.: "Error: cannot load content" or "Error loading file:///<path to the weblog>:0 error", dependent on the Pipeline version. These errors are due to browser security, which prevents the javascript within the weblog from displaying requested content.

Within the ALMA 2021 Pipeline (2021.2.0.128), which uses CASA 6.2.1-7, and thereafter, the error page will indicate the best solutions in order to allow full viewing functionality of the weblog. These solutions are explained below and are also suitable for viewing weblogs from older ALMA Pipeline versions using <= CASA 6.1.1-15.

i) Use `h_weblog()` within a local CASA session:

From inside a CASA session, navigate to the root of the untarred weblog directory, e.g., `pipeline-procedure_hifa_calimage`, and run `h_weblog`. This command will serve the weblog via HTTP and launch a browser (in your default selected browser) connecting to the weblog. The weblog URL is also printed to the CASA logger, should you need to navigate to the weblog manually, or using a different browser. The URL to access is highlighted in the example CASA logger output below.

```
CASA <1>: h_weblog()
```

```
2020-07-30 12:57:20          INFO          h_weblog:::casa
```

```
#####
```

```

2020-07-30 12:57:20      INFO      h_weblog::::casa      #####
Begin Task: h_weblog      #####
2020-07-30 12:57:20      INFO      h_weblog::::casa
h_weblog( pipelinemode='automatic', relpath='')
2020-07-30 12:57:20      INFO      h_weblog::pipeline::casa
Found weblogs at:
2020-07-30 12:57:20      INFO      h_weblog::pipeline::casa+
main/pipeline=procedure_hifa_calimage/html/t1-1.html
2020-07-30 12:57:20      INFO      h_weblog::pipeline::casa
Using existing HTTP server at 127.0.0.1 port 30000 ...
2020-07-30 12:57:20      INFO      h_weblog::pipeline::casa
Opening
http://127.0.0.1:30000/main/pipeline=procedure\_hifa\_calimage/html/t1-1.htm
2020-07-30 12:57:20      INFO      h_weblog::::casa      Result
h_weblog: None
2020-07-30 12:57:20      INFO      h_weblog::::casa      Task
h_weblog complete. Start time: 2020-07-30 08:57:19.880720 End time:
2020-07-30 08:57:20.064263
2020-07-30 12:57:20      INFO      h_weblog::::casa      #####
End Task: h_weblog      #####

2020-07-30 12:57:20      INFO      h_weblog::::casa
#####

```

For security, the weblog HTTP server is only accessible from the same computer as the CASA session. To view the weblog from another computer you must forward the port using SSH. For example, to access the weblog hosted on a remote machine called remotepc, where the CASA log reports the weblog is available at port 30000, execute:

```
ssh -L 30000:localhost:30000 remotepc
```

ii) Use a python3 call, external to a CASA session:

Outside of CASA one can also create the http server in which to view a local weblog. From the command line simply type:

```
python3 -m http.server 8080 --bind 127.0.0.1
```

The weblog can then be accessed in a web browser via the URL:

[http://127.0.0.1:8080/"location_of_PL_weblog"/html/index.html](http://127.0.0.1:8080/)

Note, this method requires python3, for which the version delivered with CASA can be used by setting it as an alias or by calling the full path. On MacOS this is found in "/Applications/CASA.app/Contents/MacOS/python3", or on Linux systems "'install_path'/casa-6.2.1-7-pipeline-2021.2.0.128/bin/python3"

Tags

error

firefox

qa2

weblog