



Fermi

Gamma-ray Space Telescope

Fermi Analysis Software

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FSSC Archive and Data Operations Manager

- **Fermitools**
 - Current release is 2.2.0. Removed ROOT. Support ARM Macs.
 - 5850 downloads (3925 Linux, 1743 Intel MacOS, 182 ARM Macs)
 - Next release will include several bug fixes (e.g., plotting) and remove ROOT residuals
 - Longer term plan to improve speed and memory usage.
- **Continuous integration (CI) model and open source tools**
 - Code moved from CVS to Github.
 - Using Microsoft Azure cloud for build and test pipeline.
 - Allows builds on Linux and MacOS.
 - When a change is checked into Github, a build is automatically started, tests run, and binaries pushed to Conda cloud (if tests passed).
 - May move to Github Actions due to issue with Azure breaking CI.

Fermitools Related Software





- **Docker container**
 - Produced for summer school. Now for general use.
 - Contains other utilities like HEASoft, Fermipy, tempo2, etc.
 - ~3.5k downloads
- **User contributed software page**
 - **LATSourceModel** (replaces make4FGLxml.py) is contributed software
- **Python**
 - The tools have a Python interface (e.g., pyLikelihood)
 - Analysis threads are available as Jupyter notebooks.
- **Fermipy**
 - Fermipy is a community driven effort.
 - Uses the pyLikelihood interface of the Fermitools.
 - Fermipy related helpdesk questions are referred to the Fermipy Github tracker.


Cloud Computing Initiative

- **The goal is to empower users to analyze Fermi data remotely and improve the analysis workflows.**
- **Alex Reustle will lead the effort and a new developer will be hired to assist.**
- **New hire search is on-going. Short list of candidates has been created.**
- **No design has been established yet. There are many possibilities to consider.**


Extra Slides

- **The following slides are screenshots of Github, Azure, Anaconda Cloud, Issue Tracker**

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)   








Fermi Gamma-Ray Space Telescope

 Orbit <https://fermi.gsfc.nasa.gov>

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Fermitools-conda






● Shell  BSD-3-Clause  9  13  16  0 Updated yesterday

modelEditor

FSSC ScienceTools Model Editor GUI






● Python  BSD-3-Clause  0  0  0  0 Updated yesterday

ScienceTools

● Python  BSD-3-Clause  0  0  0  2 Updated 2 days ago

fermitools-fhelp

Repository for Fermitools fhelp files

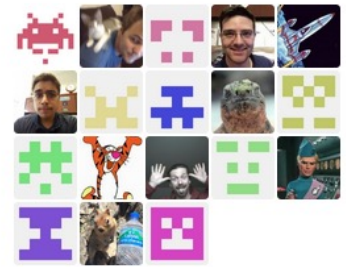
 BSD-3-Clause  0  0  0  0 Updated 2 days ago

Top languages

● C++ ● Python ● Shell ● C
● Dockerfile

People

25 >



Azure Pipeline Runs

Fermitools

Overview

Boards

Repos

Pipelines

Pipelines

































Releases

Artifacts

Pipelines

Recent **Runs**



Description	Stages	
Manually reset patch number #20190926.6 on Fermitools - Full Build  master fff6bd9	 -  -  - 	Yesterday 1h 4m 13s
Update Env variable #20190926.6 on modelEditor  master db334f4	 -  -  -  - 	Yesterday 6m 30s
Patch iteration triggered by pulsarDb repository. #20190926.5 on Fermitools - Full Build  master cf3b973	 -  -  - 	Yesterday 1h 6m 12s
Update syntax #20190926.5 on modelEditor  master 8c73322	 -  -  -  - 	Yesterday 6m 52s
Patch iteration triggered by pulsarDb repository. #20190926.4 on Fermitools - Full Build  master cf3b973	 -  -  - 	Yesterday 1h 4m 12s
Patch iteration triggered by pulsarDb repository. #20190926.3 on Fermitools - Full Build  master cf3b973	 -  -  - 	Yesterday 30m 15s

fermi / packages / fermitools

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- Conda
- Files
- Labels
- Badges

Filters

Type: All ▾ Version: All ▾ Label: All ▾































<input type="checkbox"/>	Type	Size	Name	Uploaded	Uploader	Downloads	Labels
<input type="checkbox"/>	conda	90.0 MB	osx-64/fermitools-1.1.8-py27h39e3cac_0.tar.bz2	1 day and 21 minutes ago	jasercion	4	dev
<input type="checkbox"/>	conda	151.2 MB	linux-64/fermitools-1.1.8-py27h39e3cac_0.tar.bz2	1 day and 22 minutes ago	jasercion	1	dev
<input type="checkbox"/>	conda	90.0 MB	osx-64/fermitools-1.1.106-py27h39e3cac_1.tar.bz2	1 day and 1 hour ago	jasercion	2	dev
<input type="checkbox"/>	conda	151.1 MB	linux-64/fermitools-1.1.106-py27h39e3cac_1.tar.bz2	1 day and 1 hour ago	jasercion	1	dev
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<input type="checkbox"/>	conda	89.7 MB	osx-64/fermitools-1.0.10-py27h39e3cac_0.tar.bz2	2 months and 16 days ago	jasercion	146	main



Pull requests Issues Marketplace Explore
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Created Assigned Mentioned

is:open is:issue archived:false user:fermi-lat sort:updated-desc

 41 Open  45 Closed Visibility ▾ Organization ▾ Sort ▾
 fermi-lat/Fermitools-conda AttributeError: 'module' object has no attribute 'new_table'   2 <p>#42 opened 24 days ago by Sanjuphysics12  updated 15 hours ago</p>
 fermi-lat/Fermitools-conda Have tools put version in CREATOR keyword enhancement   4 <p>#28 opened on Mar 7 by donhorner  updated 15 days ago</p>
 fermi-lat/Fermitools-conda Python3 roadmap?   3 <p>#44 opened 21 days ago by paulray  updated 16 days ago</p>
 fermi-lat/Likelihood gtsrcmap: Problem on the creation of the source maps with the new spectral functions in the 4FGL   5 <p>#46 opened 22 days ago by principe91  updated 18 days ago</p>
 fermi-lat/Fermitools-conda fermitools behaviour sensitive to the linux version   2 <p>#43 opened 22 days ago by landriu  updated 22 days ago</p>
 fermi-lat/Fermitools-conda Caught St13runtime_error at the top level: RoiCuts::sortCuts:   3 <p>#40 opened 27 days ago by Sanjuphysics12  updated 24 days ago</p>
 fermi-lat/Fermitools-conda gtltcube execution failed during light curve generation   3 <p>#39 opened on Aug 27 by Sanjuphysics12  updated 29 days ago</p>