

Github-Zenodo Integration: First Year Review and Future Plans

Tibor Simko
(obo Lars Nielsen, Tim SMITH)

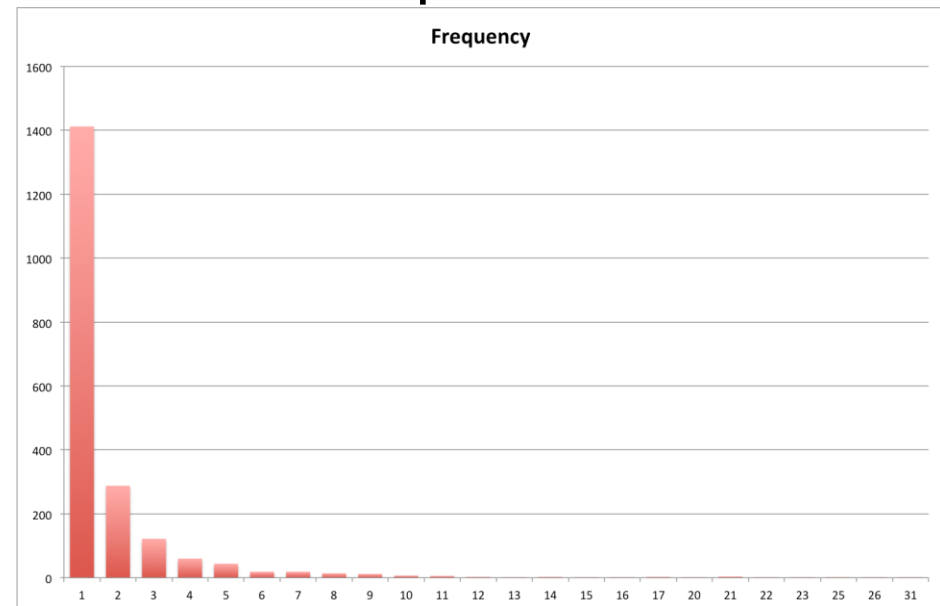
At AAHEP8 meeting



SW Records

- 4161 SW records
 - 315 Simple upload (usually zip)
 - 3846 Github
 - 2026 repositories
 - 1983 active
 - 43 github version deleted
 - 1302 repository owners

Multiple Versions



Zenodo – GitHub bridge

zenodo

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Inielsen-c
Decouple and

Inielsen-c
Flask boilerpla

Inielsen-cern/flask-cache
Cache extension for Flask

This repository Search or type a command Explore Gist Blog Help Inielsen-cern

PUBLIC Inielsen-cern / decouple
forked from svenkreiss/decouple

Unwatch 1 Star 0 Fork 1

Decouple and recouple. — Edit

33 commits 3 branches 3 releases

branch: master decouple

This branch is 0 commits ahead and 0 commits behind master

Pull Request Compare

ZENODO/GitHub integration demo

Inielsen-cern authored 22 minutes ago latest commit 87da47f16c

- Decouple Pass the common parameters explicitly to Lef scan and throw error i... a month ago
- ModelGenerators Minor. 2 months ago
- Plot Move PlotUtils to Decouple.src.plot_utils to make it available to ot... a month ago
- output Init public repo. 2 months ago
- plots Init public repo. 2 months ago
- plotsForPaper Finer scan of robustness. Larger font size for eta arrow plots. a month ago
- gitignore Remove local LHCXSHiggsCouplings submodule and replace with depende... a month ago
- zenodo.json ZENODO/GitHub integration demo 12 minutes ago
- LICENSE First version to work with pap. a month ago
- Makefile Pass the common parameters explicitly to Lef scan and throw error i... a month ago
- README.md ZENODO/GitHub integration demo 12 minutes ago
- setup.py Bump version a month ago

README.md

Decouple and Recouple

DOI: 10.5281/zenodo.8345

v1.1.3

07a2526 zip tar.gz

```
{  
  "name": "Plehn, Tilman",  
  "affiliation": "Institut für Theoretische PI  
  },  
  "description": "This repository contains the soft  
  "access_right": "open",  
  "license": "mit-license",  
  "related_identifiers": [{  
    "identifier": "arXiv:1401.0080",  
    "relation": "isCitedBy"  
  }  
}
```

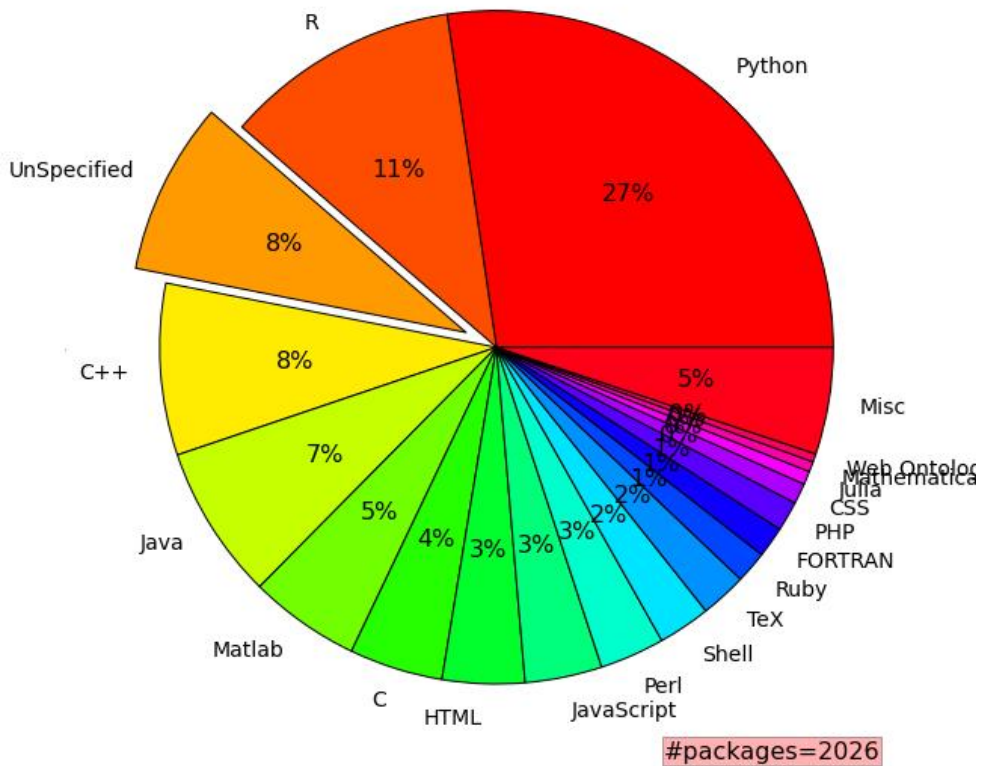
.zenodo.json

ON

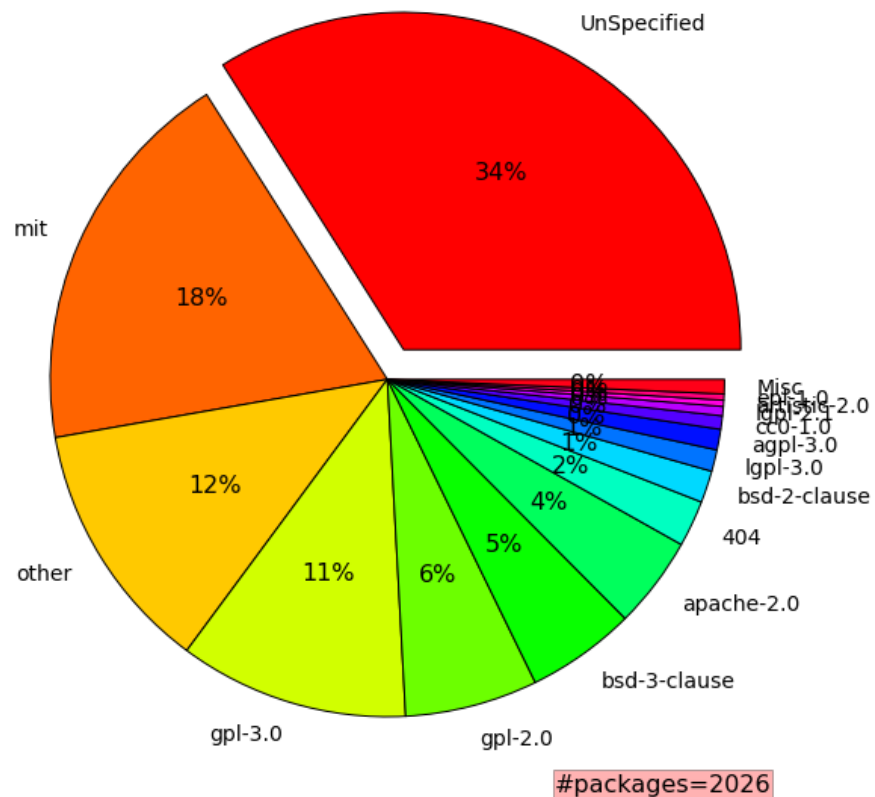
DOI 10.5281/zenodo.8345

Characteristics

Languages of Software Published in Zenodo



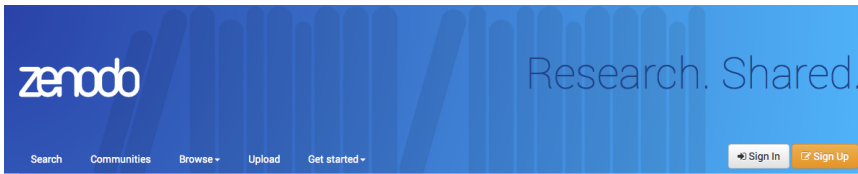
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Related Identifiers

- 65 cites
- 60 isCitedBy
- 12 isIdenticalTo
- 52 isNewVersionOf
- 3 isPartOf
- 19 isPreviousVersionOf
- 4000 isSupplementTo
- 33 isSupplementedBy

Example



Self-Describing File (SDF) Library

Salmon, John K.; Warren, Michael S.

(show affiliations)

This is the public release of version 1.0 of SDF ("Self Describing Files" or "Super-Duper Files, depending on how impressed you are). It is the first version of the last I/O package you'll ever need. SDF files are binary data files with an optional header which contains 1) a description of the layout of the data, and 2) optional ascii constants. There is no output capability because the SDF files are so easy to write ->. SDF has been used to manage the configuration and output of large parallel simulations for over 20 years.

| Name | Date | Size | Download |
|--------------------------------|-------------|---------|--------------------------|
| libSDF-1.0-f01930caa73e.tar.gz | 14 Jun 2014 | 75.6 kB | Download |

Publication date: 14 June 2014
DOI: 10.5281/zenodo.10469
Keyword(s):
Data format Data description library
Related publications and datasets:
Cited by:
arXiv:1407.2600
Supplement to:
https://bitbucket.org/JohnSalmon/sdf,
http://dl.acm.org/citation.cfm?id=1478777, 10.1145/2503210.2503220
Collection:
Com

isCitedBy

isSupplementTo

isSupplementTo

Bitbucket repository for JohnSalmon/SDF. Overview shows 1 fork, 4 tags, and 2 watchers. The repository contains the SDF library source code and documentation.

Dark Sky Simulations: Early Data Release

Samuel W. Skillman, Michael S. Warren, Matthew J. Turk, Risa H. Wechsler, Daniel E. Holz, P. M. Sutter

(Submitted on 9 Jul 2014)

The Dark Sky Simulations are an ongoing series of cosmological N-body simulations designed to provide a quantitative and accessible model of the evolution of the large-scale Universe. Such models are essential for many aspects of the study of dark matter and dark energy, since we lack a sufficiently accurate analytic model of non-linear gravitational clustering. In July 2014, we made available to the general community our early data release, consisting of over 55 Terabytes of simulation data products, including our largest simulation to date, which used 1.07×10^{12} (10240⁷) particles in a volume $8h^{-1}$ Gpc across. Our simulations were performed with 2HOT, a purely tree-based adaptive N-body method, running on 200,000 processors of the Titan supercomputer, with data analysis enabled by yt. We provide an overview of the derived halo catalogs, mass function, power spectra and light cone data. We show self-consistency in the mass function and mass power spectrum at the 1% level over a range of more than 1000 in particle mass. We also present a novel method to distribute and access very large datasets, based on an abstraction of the World Wide Web (WWW) as a file system, remote memory-mapped file access semantics, and a space-filling curve index. This method has been implemented for our data release, and provides a means to not only query stored results such as halo catalogs, but also to design and deploy new analysis techniques on large distributed datasets.

Comments: 26 pages, 9 figures, project website at this [http URL](#), repository at this [http URL](#)
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO); Instrumentation and Methods for Astrophysics (astro-ph.IM)
Cite as: arXiv:1407.2600 [astro-ph.CO]
(or arXiv:1407.2600v1 [astro-ph.CO] for this version)

ACM Digital Library entry for the paper '2HOT: An improved parallel hashed oct-tree N-body algorithm for cosmological simulation' by Michael S. Warren et al. Published in SC'13 Proceedings of the International Conference on High Performance Computing, Networking, Storage and Analysis. The page includes abstract, authors, and download options.

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Defining Communication at the Bottom

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6 Author(s)

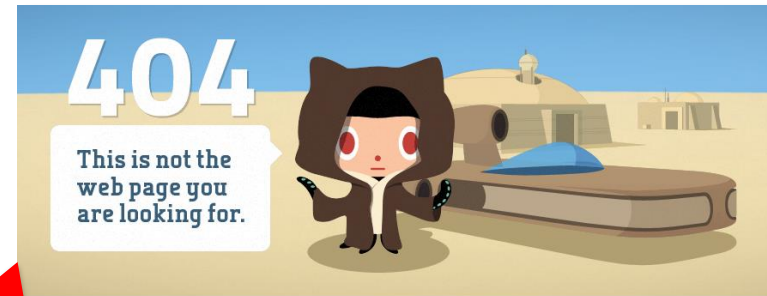
Bush, S.; Stephen F Bush is with GE Global Research, Niskayuna, NY 12309 USA (e-mail: bushsf@research.ge.com); Paluh, J.; Piro, G.; Rao, V.

Abstract Authors References Cited By Keywords Metrics Similar

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Nanoscale communication is expected to offer unprecedented benefits. However, lack of a precise definition and general framework for nanoscale communication has resulted in limited impact and dissipated effort. The IEEE P1906.1/Draft 1.0 Recommended Practice for Nanoscale and Molecular Communication Framework provides the precise, common definition of nanoscale communication and a standard, general framework. The definition of nanoscale communication must carefully depict the field so that it captures the unique aspects of small-scale physics with respect to communication. Both the definition and framework must be broad enough to cover the scope of cross-disciplinary technologies that may be utilized while simultaneously being precise enough to allow for interoperable

- [13] Piro, G., Grieco, L. A., Boggia, G., and Camarda, P. "Simulating Wireless Nano Sensor Networks in the NS-3 platform", in Proc. of Workshop on Performance Analysis and Enhancement of Wireless Networks (PAEWN-2013), Barcelona, Spain, Mar., 2013.
- [14] IEEE P1906.1 Reference Code, <https://github.com/ieee-p1906-1-reference-code/p1906-dev>, <http://dx.doi.org/10.5281/zenodo.16193>.
- [15] Raja, W. K., Padgen, M. R., Williams, J. K., Gertler, F. B., Wyckoff, J. B., Condeelis, J. S., and Castracane, J., "Development path and current status of the NANIVID: a new device for cancer cell studies," Journal of Micro/Nanolithography, MEMS, and MOEMS, vol. 11, no. 1, 2012.



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19 March 2015

ieee-p1906-1-reference-code v1.5

giuseppapiro

(show affiliations)

Bush, J. Paluh, G. Piro, V. Rao, V. Prasad, and A. Eckford "Defining Communication at the Bottom", IEEE Trans. on Molecular, Biological, and Multi-Scale Communications (TMBMC), 2015

| Name | Date | Size | |
|--------------------------------------|-------------|--------|----------|
| ieee-p1906-1-reference-code-v1.5.zip | 19 Mar 2015 | 1.7 MB | Download |

Available in:

GitHub

Publication date: 19 March 2015

DOI: 10.5281/zenodo.16193

Related publications and datasets:

Supplement to: <https://github.com/giuseppapiro/ieee-p1906-1-reference-code/tree/v1.5>

Collections: Software, Open Access

License (For files): Other (Open)

Uploaded by: giuseppapiro (on 19 March 2015)

Future Plans

- Automation
 - Travis style view of progress through workflow
 - Notifications of progress, and errors
- MetaData
 - Automation of change syncs
 - Standardization between repositories?
- Versioning
 - Grouping and sub-identifiers



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