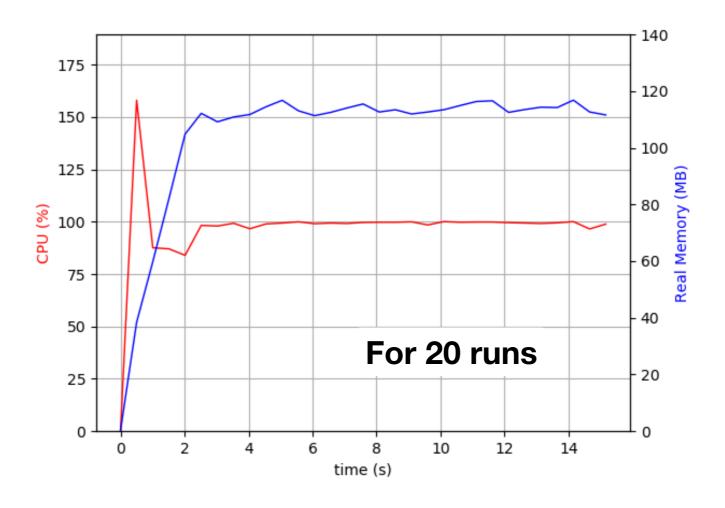
7 -benchmarks

- AIM: Performance benchmarks for gammapy
- Link: https://github.com/gammapy/gammapy-
 benchmarks/blob/master/benchmarks/README.md
- Doing this was a good exercise many issues came up
- Currently, 7 benchmarks all seem to be working as expected

1D stacked analysis

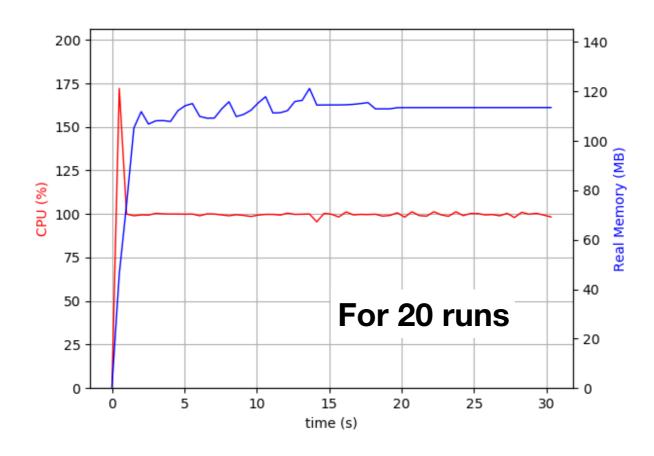


data_preparation: 6.49084997177124 writing: 0.12947916984558105 reading: 0.08890080451965332 data_fitting: 0.06629109382629395 flux point: 0.6222870349884033 data_preparation: 12.760003805160522

writing: 0.12907910346984863
reading: 0.089630126953125

data_fitting: 0.07059407234191895
flux_point: 0.5860438346862793

1D joint analysis



data_preparation: 6.62027907371521

writing: 1.1609628200531006 reading: 0.889721155166626

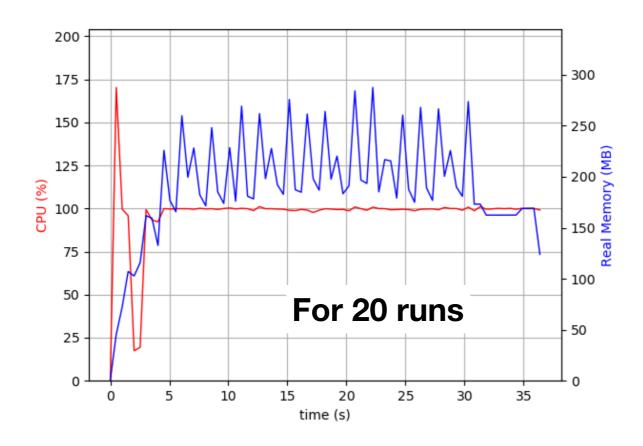
data_fitting: 0.6972498893737793
flux point: 5.395028114318848

data_preparation: 12.66777491569519

writing: 2.321803092956543 reading: 1.822662353515625

data_fitting: 1.3308169841766357
flux_point: 11.199066162109375

3D stacked analysis



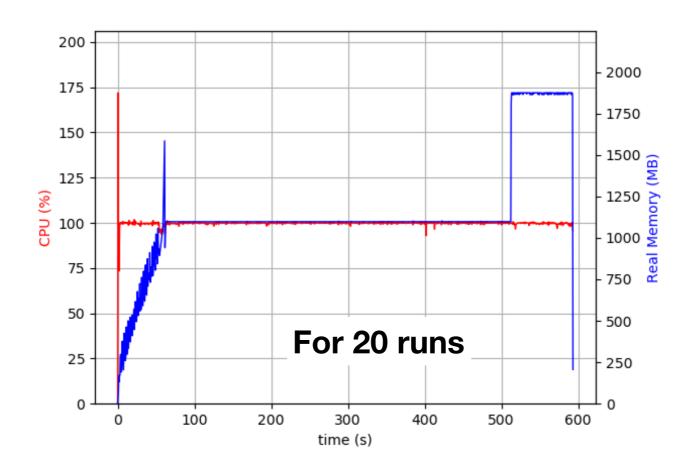
data preparation: 15.296000003814697

writing: 0.5479309558868408
reading: 0.34554004669189453
data_fitting: 3.2952499389648438
flux_point: 1.5389289855957031

data preparation: 29.46461796760559

writing: 0.4709291458129883
reading: 0.3407292366027832
data_fitting: 3.2674720287323
flux_point: 1.526402235031128

3D joint analysis



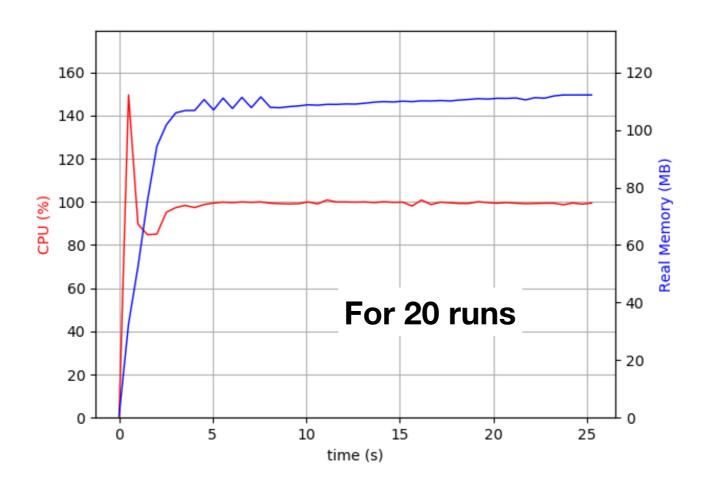
data_preparation: 26.195430040359497

writing: 2.3209080696105957
reading: 1.0197551250457764
data_fitting: 157.49387907981873
flux_point: 35.81381702423096

data_preparation: 53.01461601257324

writing: 4.892690896987915
reading: 2.2559969425201416
data_fitting: 450.8782501220703
flux_point: 80.6631760597229

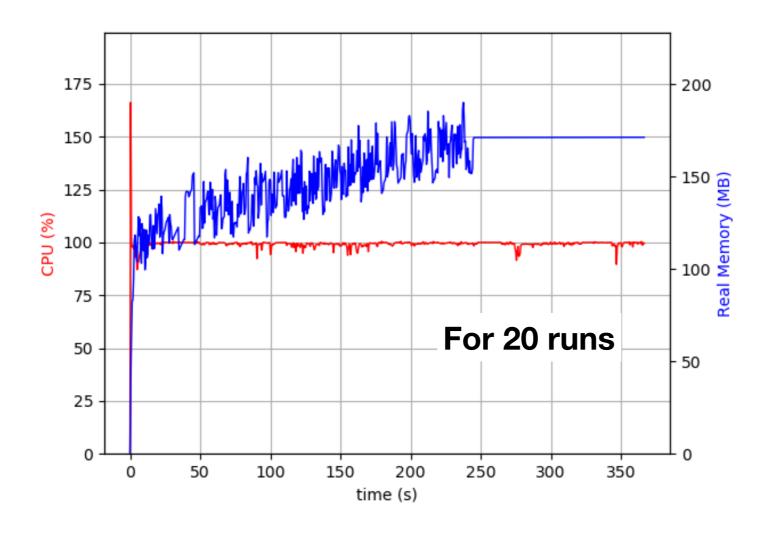
1D ligntcurve analysis



data_preparation: 8.300799131393433
data_fitting: 0.7847259044647217

data_preparation: 21.591298818588257
data_fitting: 2.1348090171813965

3D lightcurve analysis



Results for 100 runs on the current master - https://gammapy-benchmarks/blob/master/benchmarks/results/results.yaml

Issues and to-do

- Add more benchmarks? simulation/ image analysis?
- Error computation not included at present (should!)
- Currently there are no asserts possibility of going haywire?
- Should work on the latest gammapy/master how to ensure?
- Nice to make it user friendly pass some options from command line