Notes

Python only: AE system uses python 3.7.

Matlab only: AE system runs Matlab without Java VM (-nojvm) and without graphical display (-nodisplay). When the system runs your code, use of drawing functions has no effect usually, use of functions that require Java VM (e.g. imshow) would result in a runtime error.

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2022-11-13 15:09:04

Data ID: 23

Platform: python

$e2p_2d$

Runtime error: all the input array dimensions for the concatenation axis must match exactly, but along dimension 1, the array at index 0 has size 100 and the array at index 1 has size 2, traceback: Traceback (most recent call last):

File "/local/script/ae/aetools.py", line 439, in tryrun

result = fce(*args)

File "/local/data/tools.py", line 5, in e2p

return np.vstack((u_real, np.ones((1,u_real.shape[0]))))

File "< array function internals>", line 5, in vstack

File "/usr/lib/python3/dist-packages/numpy/core/shape_base.py", line 283, in vstack return nx.concatenate(arrs, 0)

File "<_array_function__ internals>", line 5, in concatenate

ValueError: all the input array dimensions for the concatenation axis must match exactly, but along dimension 1, the array at index 0 has size 100 and the array at index 1 has size 2

$e2p_3d$

Runtime error: all the input array dimensions for the concatenation axis must match exactly, but along dimension 1, the array at index 0 has size 100 and the array at index 1 has size 3, traceback: Traceback (most recent call last):

File "/local/script/ae/aetools.py", line 439, in tryrun

result = fce(*args)

File "/local/data/tools.py", line 5, in e2p

return np.vstack((u real, np.ones((1,u real.shape[0]))))

File "< array function internals>", line 5, in vstack

File "/usr/lib/python3/dist-packages/numpy/core/shape_base.py", line 283, in vstack return nx.concatenate(arrs, 0)

File "<_array_function__ internals>", line 5, in concatenate

ValueError: all the input array dimensions for the concatenation axis must match exactly, but along dimension 1, the array at index 0 has size 100 and the array at index 1 has size 3

$p2e_2d$

PASS

$p2e_3d$

PASS

vlen

PASS

\mathbf{sqc}

PASS

EutoRt

Runtime error: all the input arrays must have same number of dimensions, but the array at index 0 has 2 dimension(s) and the array at index 1 has 1 dimension(s), traceback: Traceback (most recent call last):

File "/local/script/ae/aetools.py", line 439, in tryrun

result = fce(*args)

File "/local/data/tools.py", line 35, in EutoRt

P1 = np.hstack((R1,t1))

File "< array function internals>", line 5, in hstack

File "/usr/lib/python3/dist-packages/numpy/core/shape_base.py", line 346, in hstack return _nx.concatenate(arrs, 1)

File "< array function internals>", line 5, in concatenate

ValueError: all the input arrays must have same number of dimensions, but the array at index 0 has 2 dimension(s) and the array at index 1 has 1 dimension(s)

err_F_sampson

FAIL

```
Input:
[[ 3.23654004e-08 -5.27201236e-08 3.38727795e-04]
  3.98657729e-09 -1.28532179e-07 -4.20200719e-04]
 [-1.79430980e-04 6.99070565e-04 -3.38133620e-01]]
[[484.16247146 577.03647725 933.30334239 667.59926748 897.26239822
  499.08171327 729.83805857 830.69117897 794.01793666 541.06940788]
 [456.60443445 710.12571997 690.06118771 706.21151207 741.05382959
  597.67953006 414.66175677 374.8557634 717.19459585 484.974569641
                              1.
    1.
                 1.
                                                        1.
                                                                   11
u2
[[421.95571364 397.78558276 721.39385603 536.11201032 720.38298197
  412.7217649 735.03045087 795.45340002 626.25151609 438.44778467]
 [128.04960726 368.50027703 433.35326883 469.70381338 565.54115567
  332.61356512 217.82076455 192.47996817 461.2348991 170.01468777]
                 1.
                              1.
                                           1.
                                                        1.
                 1.
                              1.
                                           1.
                                                         1.
                                                                   11
   1.
Your output:
[-34375.27224702 -7114.25993507 -2926.05027379 -39110.07764152
 -45647.86971626 -52674.52497884 -41312.64906471 -52084.48379946
 -12598.13296708 -41351.261976441
Ref output:
err
                 39.81788308
                                6.4731679 1164.13392366 1541.84840476
[ 945.32853614
2162.62191506 1299.11977771 2059.57923542 120.44765376 1359.45894484]
```

u_correct_sampson

FAIL

```
Input:
[[ 3.23654004e-08 -5.27201236e-08 3.38727795e-04]
  3.98657729e-09 -1.28532179e-07 -4.20200719e-04]
 [-1.79430980e-04 6.99070565e-04 -3.38133620e-01]]
[[484.16247146 577.03647725 933.30334239 667.59926748 897.26239822
  499.08171327 729.83805857 830.69117897 794.01793666 541.06940788]
 [456.60443445 710.12571997 690.06118771 706.21151207 741.05382959
 597.67953006 414.66175677 374.8557634 717.19459585 484.97456964]
                1.
                            1.
                                         1.
   1.
                                                               ]]
[[421.95571364 397.78558276 721.39385603 536.11201032 720.38298197
  412.7217649 735.03045087 795.45340002 626.25151609 438.44778467]
 [128.04960726 368.50027703 433.35326883 469.70381338 565.54115567
  332.61356512 217.82076455 192.47996817 461.2348991 170.01468777
 [ 1.
                1.
                             1.
                                         1.
                                                      1.
   1.
                1.
                             1.
                                                      1.
                                                               11
Your output:
nu1
[[489.84345733 578.21095217 933.75499341 673.86497527 904.28582157
  507.75968771 736.23214392 838.65585884 795.99991714 547.87428175]
 564.25436895 388.53883134 341.91783306 709.55041435 457.92657747]
   1.
                1.
                             1.
                                         1.
                                                      1.
                                                               11
    1.
                1.
                             1.
                                         1.
                                                      1.
[[410.60067897 395.50926221 720.42078508 523.47541303 705.37854534
  395.68834919 720.96397817 777.43992892 622.13676535 424.77408827]
```

```
[144.44520035 372.12267553 434.83143657 489.58386426 588.9070666
  358.68914811 237.26202383 216.70290593 467.65009378 189.8789467 ]
   1.
                 1.
                               1.
                                            1.
                                                          1.
                 1.
                               1.
                                            1.
                                                          1.
                                                                    ]]
    1.
Ref output:
nu1
[[478.4814856 575.86200232 932.85169136 661.33355968 890.23897487
  490.40373883 723.44397323 822.7264991 792.03595617 534.26453401]
 [479.3047131 714.61293354 691.83243933 730.0856574 767.91311135
  631.10469118 440.78468221 407.79369374 724.83877735 512.02256182]
                                            1.
   1.
                 1.
                               1.
                                                          1.
                               1.
                                            1.
    1.
                 1.
                                                          1.
                                                                    ]]
nu2
[[433.31074831 400.06190332 722.36692698 548.7486076 735.3874186
  429.75518062 749.09692357 813.46687112 630.36626682 452.12148106]
 [111.65401418 364.87787854 431.87510109 449.82376249 542.17524473
  306.53798213 198.37950526 168.25703041 454.81970443 150.15042884]
                 1.
                               1.
                                            1.
                 1.
                               1.
                                            1.
    1.
                                                          1.
                                                                    ]]
```

Pu2X

```
Runtime error: SVD did not converge, traceback: Traceback (most recent call last):
File "/local/script/ae/aetools.py", line 439, in tryrun
result = fce( *args )
File "/local/data/tools.py", line 86, in Pu2X
U,_, = np.linalg.svd(D_stable)
File "<_array_function__ internals>", line 5, in svd
File "/usr/lib/python3/dist-packages/numpy/linalg/linalg.py", line 1661, in svd
u, s, vh = gufunc(a, signature=signature, extobj=extobj)
File "/usr/lib/python3/dist-packages/numpy/linalg/linalg.py", line 97, in
_raise_linalgerror_svd_nonconvergence
raise LinAlgError("SVD did not converge")
numpy.linalg.LinAlgError: SVD did not converge
```

(finish)