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[8] import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import flowtracks
from flowtracks import io
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[5] %ls test_data
```

ptv_is.101000	trajPoint.101000	xuag.101000	xuap.101001
ptv_is.101001	trajPoint.101001	xuag.101001	xuap.101002
ptv_is.101002	trajPoint.101002	xuag.101002	xuap.101003
ptv_is.101003	trajPoint.101003	xuag.101003	xuap.101004
ptv_is.101004	trajPoint.101004	xuag.101004	xuap.101005
ptv_is.101005	trajPoint.101005	xuag.101005	xuap.101006
ptv_is.101006	trajPoint.101006	xuag.101006	xuap.101007
ptv_is.101007	trajPoint.101007	xuag.101007	xuap.101008
ptv_is.101008	trajPoint.101008	xuag.101008	xuap.101009
ptv_is.101009	trajPoint.101009	xuag.101009	xuap.101010
ptv_is.101010	trajPoint.101010	xuag.101010	xuap.101011
ptv_is.101011	trajPoint.101011	xuag.101011	xuap.101012
ptv_is.101012	trajPoint.101012	xuag.101012	xuap.101013
ptv_is.101013	trajPoint.101013	xuag.101013	xuap.101014
ptv_is.101014	trajPoint.101014	xuag.101014	xuap.101015
ptv_is.101015	trajPoint.101015	xuag.101015	xuap.101016
ptv_is.101016	trajPoint.101016	xuag.101016	xuap.101017
ptv_is.101017	trajPoint.101017	xuag.101017	xuap.101018
ptv_is.101018	trajPoint.101018	xuag.101018	xuap.101019
ptv_is.101019	trajPoint.101019	xuag.101019	xuap.101020
ptv_is.101020	trajPoint.101020	xuag.101020	xuap.101021
ptv_is.101021	trajPoint.101021	xuag.101021	xuap.101022
ptv_is.101022	trajPoint.101022	xuag.101022	xuap.101023
ptv_is.101023	trajPoint.101023	xuag.101023	xuap.101024
ptv_is.101024	trajPoint.101024	xuag.101024	xuap.101025
ptv_is.101025	trajPoint.101025	xuag.101000	

```
[14] for tr in io.iter_trajectories_ptvis('./test_data/ptv_is.%d'):
      print(tr.time()[-1])
```

[illegible]

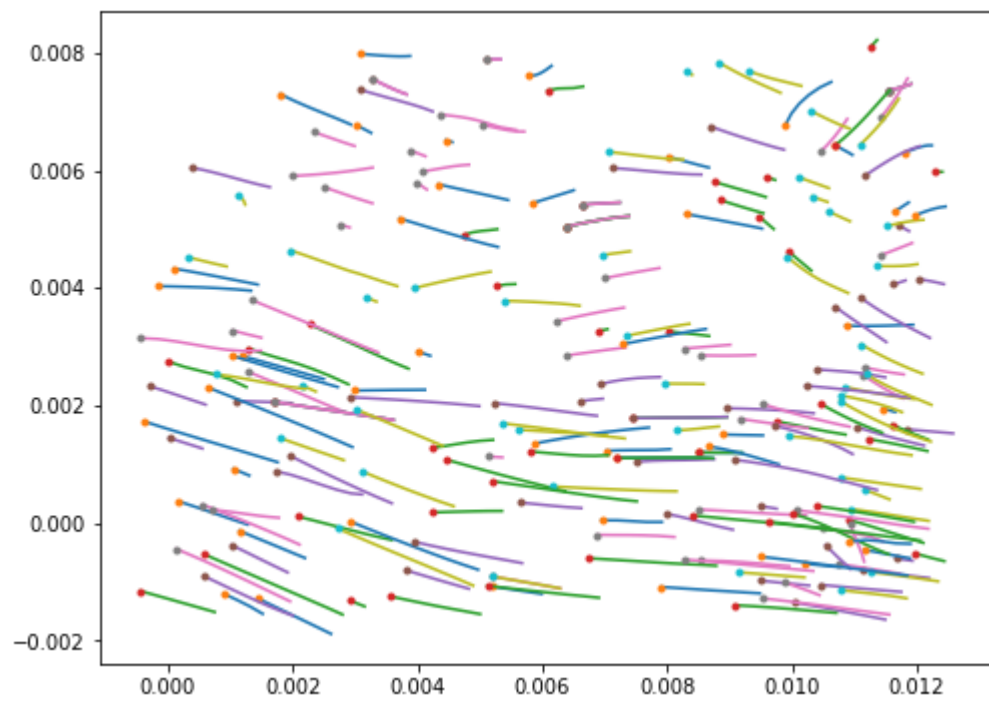
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101013.0
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```
[17] max_frame = 101010
trajectories = []
for tr in io.iter_trajectories_ptvis('./test_data/ptv_is.%d'):
    if tr.time()[-1] <= max_frame:
        trajectories.append(tr)
```

```
[18] len(trajectories)
```

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[20] fig, ax = plt.subplots(figsize=(8,6))
for tr in trajectories:
    plt.plot(tr.pos()[:,0],tr.pos()[:,1])
    plt.plot(tr.pos()[0,0],tr.pos()[0,1],'.')
```



[ ]