

```

1 ssh: //root@103.254.67.181: 10006/usr/bin/
python -u /home/sunfengzhen/pycharm/
h5rw_heatmap/hot_map.py
2 #####read and write h5
#####
3 reading BJ13_M32x32_T30_In0ut.h5
4 fr.keys() = [u'data', u'date']
5 /usr/local/lib/python2.7/dist-packages/
h5py/_hl/dataset.py:313:
H5pyDeprecationWarning: dataset.value
has been deprecated. Use dataset[()]
instead.
6 "Use dataset[()] instead.",
H5pyDeprecationWarning)
7 data.shape = (4888, 2, 32, 32)
8 data.dtype = float64
9 save small.h5
10 #####read small h5
#####
11 reading small.h5
12 fr.keys() = [u'small_data']
13 data.shape = (48, 32, 32)
14 data.dtype = float64
15 max data = 965.0

```

```

16 min data = 0.0
17 #####plt and save h5
   #####
18 data[00,:,:].shape is (32, 32)
19 data[00,:,:].dtype is float64
20 data[00,:,:] =
21 [[0.          0.02072539 0.04248705 ...
   0.00725389 0.00103627 0.04145078]
22 [0.          0.01139896 0.00829016 ... 0
   .02279793 0.00725389 0.09948187]
23 [0.          0.00932642 0.00518135 ... 0
   .01450777 0.20518135 0.12124352]
24 ...
25 [0.00103627 0.00310881 0.00414508 ... 0
   .00829016 0.00621762 0.00310881]
26 [0.          0.          0.          ... 0
   .00932642 0.          0.00725389]
27 [0.00103627 0.          0.          ... 0
   .01761658 0.02072539 0.00725389]]
28 data[01,:,:].shape is (32, 32)
29 data[01,:,:].dtype is float64
30 data[01,:,:] =
31 [[0.          0.01243523 0.01968912 ...
   0.00207254 0.00310881 0.04145078]

```

```
32 [0.          0.00725389 0.01036269 ... 0
    .01761658 0.00621762 0.08704663]
33 [0.          0.00621762 0.00310881 ... 0
    .02072539 0.20518135 0.15336788]
34 ...
35 [0.          0.00103627 0.00518135 ... 0
    .00829016 0.00725389 0.00103627]
36 [0.          0.00103627 0.00310881 ... 0
    .00829016 0.          0.00414508]
37 [0.          0.00207254 0.00207254 ... 0
    .01865285 0.01450777 0.00518135]]
38 data[02,:,:].shape is (32, 32)
39 data[02,:,:].dtype is float64
40 data[02,:,:] =
41 [[0.          0.00518135 0.01554404 ...
    0.00103627 0.00207254 0.03419689]
42 [0.          0.00518135 0.00414508 ... 0
    .01036269 0.00725389 0.0746114 ]
43 [0.          0.00207254 0.00621762 ... 0
    .00518135 0.16165803 0.08911917]
44 ...
45 [0.00207254 0.00207254 0.00310881 ... 0
    .00518135 0.00414508 0.00103627]
46 [0.00103627 0.00103627 0.00103627 ... 0
```

```

46 .00725389 0.00103627 0.          ]
47 [0.          0.00103627 0.          ... 0
   .00621762 0.00414508 0.00207254]]
48 data[03,:,:].shape is (32, 32)
49 data[03,:,:].dtype is float64
50 data[03,:,:] = 
51 [[0.          0.00414508 0.00932642 ...
   0.00103627 0.00103627 0.01658031]
52 [0.          0.00518135 0.00310881 ... 0
   .00829016 0.00414508 0.03937824]
53 [0.          0.00518135 0.00207254 ... 0
   .00829016 0.08601036 0.06217617]
54 ... 
55 [0.          0.00103627 0.00207254 ... 0
   .          0.          0.00103627]
56 [0.          0.00103627 0.          ... 0
   .00310881 0.          0.00103627]
57 [0.          0.00103627 0.00103627 ... 0
   .00621762 0.00310881 0.00207254]]
58 data[04,:,:].shape is (32, 32)
59 data[04,:,:].dtype is float64
60 data[04,:,:] = 
61 [[0.          0.00414508 0.00414508 ...
   0.00207254 0.          0.01554404]

```

```

62 [0.          0.00207254 0.00518135 ... 0
    .01139896 0.          0.03523316]
63 [0.          0.00103627 0.00207254 ... 0
    .01036269 0.06943005 0.0507772 ]
64 ...
65 [0.00310881 0.00310881 0.00207254 ... 0
    .00414508 0.00103627 0.          ]
66 [0.          0.          0.          ... 0
    .00518135 0.          0.00207254]
67 [0.          0.          0.          ... 0
    .00518135 0.00414508 0.00207254]]
68 data[05,:,:].shape is (32, 32)
69 data[05,:,:].dtype is float64
70 data[05,:,:] =
71 [[0.          0.00103627 0.00414508 ...
    0.00207254 0.00103627 0.00932642]
72 [0.          0.00207254 0.00518135 ... 0
    .00725389 0.00310881 0.0238342 ]
73 [0.          0.00103627 0.00207254 ... 0
    .00829016 0.05595855 0.0373057 ]
74 ...
75 [0.          0.          0.          ... 0
    .00207254 0.00207254 0.00103627]
76 [0.          0.          0.          ... 0

```

```

76 .00207254 0.          0.00103627]
77 [0.          0.          0.00103627 ... 0
   .00414508 0.00103627 0.00207254]]
78 data[06,:,:].shape is (32, 32)
79 data[06,:,:].dtype is float64
80 data[06,:,:] =
81 [[0.          0.00207254 0.00518135 ...
   0.00207254 0.          0.00621762]
82 [0.          0.00207254 0.00310881 ... 0
   .00414508 0.00103627 0.02487047]
83 [0.          0.00103627 0.00207254 ... 0
   .00621762 0.0642487  0.04870466]
84 ...
85 [0.          0.          0.          ... 0
   .00103627 0.00103627 0.          ]
86 [0.          0.          0.          ... 0
   .00103627 0.          0.00103627]
87 [0.          0.          0.          ... 0
   .00103627 0.00518135 0.00103627]]
88 data[07,:,:].shape is (32, 32)
89 data[07,:,:].dtype is float64
90 data[07,:,:] =
91 [[0.          0.00207254 0.00414508 ...
   0.00207254 0.          0.00725389]

```

```

92  [0.          0.00103627  0.          ...
    0.00725389  0.00310881  0.02072539]
93  [0.          0.          0.00103627  ...
    0.00518135  0.05803109  0.03937824]
94  ...
95  [0.          0.          0.          ...
    0.00310881  0.00207254  0.00103627]
96  [0.          0.          0.          ...
    0.00310881  0.          0.00103627]
97  [0.          0.          0.          ...
    0.00414508  0.00310881  0.00207254]]
98  data[08,:,:].shape is (32, 32)
99  data[08,:,:].dtype is float64
100 data[08,:,:] =
101  [[0.          0.00207254  0.00932642
    ... 0.          0.          0.01243523]
102  [0.          0.          0.          ...
    0.00725389  0.00103627  0.01658031]
103  [0.          0.          0.00103627  ...
    0.00518135  0.06010363  0.03937824]
104  ...
105  [0.          0.          0.          ...
    0.          0.          0.          ]
106  [0.          0.          0.          ...

```

```
106 0.00310881 0.          0.00103627]
107 [0.          0.          0.          ...
    0.00518135 0.00621762 0.00103627]]
108 data[09,:,:,].shape is (32, 32)
109 data[09,:,:,].dtype is float64
110 data[09,:,:,] = 
111 [[0.          0.00103627 0.00310881
    ... 0.00207254 0.00103627 0.00932642]
112 [0.          0.00207254 0.00103627 ...
    0.01450777 0.00103627 0.03419689]
113 [0.          0.00414508 0.          ...
    0.01243523 0.10051813 0.07564767]
114 ... 
115 [0.          0.00207254 0.00310881 ...
    0.00103627 0.          0.          ]
116 [0.          0.          0.          ...
    0.00414508 0.          0.00103627]
117 [0.          0.          0.          ...
    0.00621762 0.00518135 0.00103627]]
118 data[10,:,:,].shape is (32, 32)
119 data[10,:,:,].dtype is float64
120 data[10,:,:,] = 
121 [[0.          0.00518135 0.0134715
    ... 0.00207254 0.00103627 0.0134715 ]
```



```

122 [0.          0.00621762 0.00414508 ...
    0.00932642 0.00621762 0.08186528]
123 [0.          0.          0.00310881 ...
    0.0134715  0.19585492 0.15440415]
124 ...
125 [0.          0.          0.00103627 ...
    0.          0.          0.          ]
126 [0.          0.          0.          ...
    0.00414508 0.          0.00103627]
127 [0.          0.          0.          ...
    0.00310881 0.00310881 0.          ]]
128 data[11,:,:].shape is (32, 32)
129 data[11,:,:].dtype is float64
130 data[11,:,:] =
131 [[0.          0.          0.01243523
    ... 0.          0.00414508 0.01761658]
132 [0.          0.00103627 0.00725389 ...
    0.01761658 0.00829016 0.11295337]
133 [0.          0.          0.00518135 ...
    0.02797927 0.28393782 0.24145078]
134 ...
135 [0.00207254 0.00207254 0.00103627 ...
    0.00621762 0.00414508 0.          ]
136 [0.          0.          0.          ...

```

```
136 0.00621762 0.          0.00621762]
137 [0.          0.          0.          ...
    0.00725389 0.00621762 0.00103627]]
138 data[12,:,:].shape is (32, 32)
139 data[12,:,:].dtype is float64
140 data[12,:,:] =
141 [[0.          0.00414508 0.01450777
    ... 0.00518135 0.00310881 0.0373057 ]
142 [0.          0.00414508 0.00932642 ...
    0.0238342  0.00829016 0.1626943 ]
143 [0.          0.00414508 0.00829016 ...
    0.0134715  0.3626943  0.29637306]
144 ...
145 [0.00207254 0.00207254 0.00621762 ...
    0.00207254 0.00414508 0.00103627]
146 [0.          0.00103627 0.00207254 ...
    0.00725389 0.          0.00932642]
147 [0.          0.          0.          ...
    0.00725389 0.00621762 0.00103627]]
148 data[13,:,:].shape is (32, 32)
149 data[13,:,:].dtype is float64
150 data[13,:,:] =
151 [[0.00103627 0.0134715  0.02176166
    ... 0.00103627 0.01139896 0.04455959]
```

```

152 [0.          0.02590674 0.02072539 ...
    0.04870466 0.02590674 0.19585492]
153 [0.          0.01761658 0.02487047 ...
    0.01968912 0.42901554 0.3492228 ]
154 ...
155 [0.00103627 0.00103627 0.00103627 ...
    0.00310881 0.00414508 0.00103627]
156 [0.          0.          0.          ...
    0.00518135 0.          0.00725389]
157 [0.          0.          0.00103627 ...
    0.00725389 0.00829016 0.00207254]]
158 data[14,:,:].shape is (32, 32)
159 data[14,:,:].dtype is float64
160 data[14,:,:] =
161 [[0.          0.01554404 0.01968912
    ... 0.00310881 0.00621762 0.04870466]
162 [0.00207254 0.02797927 0.02176166 ...
    0.07253886 0.0373057  0.18134715]
163 [0.          0.0134715  0.0238342  ...
    0.02694301 0.46010363 0.3357513 ]
164 ...
165 [0.          0.          0.00103627 ...
    0.00621762 0.00207254 0.00207254]
166 [0.          0.00103627 0.00103627 ...

```

```

166 0.00310881 0.00103627 0.01243523]
167 [0.          0.          0.00103627 ...
    0.01761658 0.02279793 0.00829016]]
168 data[15,:,:].shape is (32, 32)
169 data[15,:,:].dtype is float64
170 data[15,:,:] =
171 [[0.00103627 0.01761658 0.03212435
    ... 0.01139896 0.01658031 0.03626943]
172 [0.          0.03523316 0.0373057 ...
    0.06735751 0.03212435 0.19792746]
173 [0.          0.01761658 0.0373057 ...
    0.01761658 0.36373057 0.35129534]
174 ...
175 [0.00310881 0.00932642 0.01554404 ...
    0.00207254 0.00103627 0.          ]
176 [0.          0.00518135 0.00414508 ...
    0.01243523 0.          0.01139896]
177 [0.00103627 0.00103627 0.00207254 ...
    0.03005181 0.03834197 0.02176166]]
178 data[16,:,:].shape is (32, 32)
179 data[16,:,:].dtype is float64
180 data[16,:,:] =
181 [[0.          0.01865285 0.04145078
    ... 0.00414508 0.00310881 0.03626943]

```

```
182 [0.          0.0238342  0.02901554 ...
0.08082902 0.04559585 0.16891192]
183 [0.          0.0134715  0.03419689 ...
0.03523316 0.36580311 0.34093264]
184 ...
185 [0.00103627 0.00518135 0.00725389 ...
0.          0.00207254 0.00207254]
186 [0.00103627 0.          0.          ...
0.01036269 0.00103627 0.0134715 ]
187 [0.          0.00103627 0.00621762 ...
0.0373057  0.0507772  0.02590674]]
188 data[17,:,:].shape is (32, 32)
189 data[17,:,:].dtype is float64
190 data[17,:,:] =
191 [[0.          0.02590674 0.04041451
... 0.00932642 0.01243523 0.04145078]
192 [0.          0.03419689 0.03316062 ...
0.07046632 0.04974093 0.15751295]
193 [0.          0.01554404 0.02797927 ...
0.02487047 0.36062176 0.25906736]
194 ...
195 [0.00310881 0.00621762 0.0134715  ...
0.00518135 0.00725389 0.00207254]
196 [0.00207254 0.00310881 0.00310881 ...
```

```
196 0.01761658 0.00207254 0.01554404]
197 [0.00207254 0.00310881 0.00310881 ...
    0.04974093 0.03937824 0.01658031]]
198 data[18,:,:].shape is (32, 32)
199 data[18,:,:].dtype is float64
200 data[18,:,:] =
201 [[0.          0.0134715  0.05906736
    ... 0.00725389 0.00518135 0.0373057 ]
202 [0.          0.02487047 0.03834197 ...
    0.06528497 0.04041451 0.1626943 ]
203 [0.          0.01243523 0.03005181 ...
    0.02694301 0.41036269 0.27357513]
204 ...
205 [0.00207254 0.00518135 0.00725389 ...
    0.00932642 0.01036269 0.00621762]
206 [0.00103627 0.00207254 0.00207254 ...
    0.03834197 0.          0.01968912]
207 [0.          0.00207254 0.00103627 ...
    0.04455959 0.05181347 0.03212435]]
208 data[19,:,:].shape is (32, 32)
209 data[19,:,:].dtype is float64
210 data[19,:,:] =
211 [[0.          0.02176166 0.04974093
    ... 0.00414508 0.00725389 0.04974093]
```

```
212 [0.00103627 0.02487047 0.03212435 ...
    0.06217617 0.04145078 0.17823834]
213 [0.          0.01036269 0.02487047 ...
    0.01865285 0.44248705 0.32124352]
214 ...
215 [0.00207254 0.00621762 0.01036269 ...
    0.00725389 0.00621762 0.00310881]
216 [0.          0.00207254 0.00207254 ...
    0.02487047 0.          0.0134715 ]
217 [0.          0.          0.00103627 ...
    0.05181347 0.04248705 0.02072539]]
218 data[20,:,:].shape is (32, 32)
219 data[20,:,:].dtype is float64
220 data[20,:,:] =
221 [[0.          0.01865285 0.04870466
    ... 0.00518135 0.00414508 0.04041451]
222 [0.          0.02797927 0.02487047 ...
    0.05181347 0.03419689 0.13264249]
223 [0.          0.01554404 0.01865285 ...
    0.01968912 0.44766839 0.33367876]
224 ...
225 [0.00310881 0.00518135 0.00829016 ...
    0.01761658 0.01139896 0.00621762]
226 [0.          0.          0.          ...
```

```

226 0.03316062 0.          0.01139896]
227 [0.          0.          0.00310881 ...
    0.03523316 0.04870466 0.02072539]]
228 /usr/local/lib/python2.7/dist-packages/
    matplotlib/pyplot.py:522:
    RuntimeWarning: More than 20 figures
    have been opened. Figures created
    through the pyplot interface (`
    matplotlib.pyplot.figure`) are retained
    until explicitly closed and may
    consume too much memory. (To control
    this warning, see the rcParam `figure.
    max_open_warning`).
```

```

229     max_open_warning, RuntimeWarning)
230 data[21,:,:].shape is (32, 32)
231 data[21,:,:].dtype is float64
232 data[21,:,:] =
233 [[0.          0.01761658 0.04248705
    ... 0.00621762 0.00932642 0.03108808]
234 [0.          0.02901554 0.03419689 ...
    0.04352332 0.02797927 0.1015544 ]
235 [0.          0.0134715  0.01658031 ...
    0.0238342  0.37202073 0.22590674]
236 ...
```



```

237 [0.00310881 0.00725389 0.01243523 ...
    0.01450777 0.00621762 0.00310881]
238 [0.00103627 0.00310881 0.00310881 ...
    0.02279793 0.00103627 0.00829016]
239 [0.          0.00207254 0.00103627 ...
    0.03212435 0.02590674 0.00621762]]
240 data[22,:,:].shape is (32, 32)
241 data[22,:,:].dtype is float64
242 data[22,:,:] =
243 [[0.          0.03108808 0.04663212
    ... 0.00207254 0.00414508 0.03316062]
244 [0.          0.02901554 0.0238342 ...
    0.03108808 0.02590674 0.0880829 ]
245 [0.          0.01554404 0.01865285 ...
    0.00725389 0.28290155 0.20725389]
246 ...
247 [0.00310881 0.00621762 0.01139896 ...
    0.00829016 0.00725389 0.00207254]
248 [0.00103627 0.00414508 0.00414508 ...
    0.02487047 0.          0.00829016]
249 [0.          0.00414508 0.00414508 ...
    0.0238342  0.01761658 0.00932642]]
250 data[23,:,:].shape is (32, 32)
251 data[23,:,:].dtype is float64

```

```

252 data[23,:,:] =
253     [[0.          0.01036269  0.03626943
...    0.00518135  0.00207254  0.02901554]
254     [0.          0.01450777  0.02072539 ...
0.02797927  0.01554404  0.07875648]
255     [0.          0.00829016  0.0134715 ...
0.00932642  0.17202073  0.17720207]
256     ...
257     [0.00414508  0.01036269  0.01036269 ...
0.00829016  0.00829016  0.00207254]
258     [0.00103627  0.00207254  0.00103627 ...
0.03005181  0.00207254  0.00932642]
259     [0.00103627  0.00103627  0.00103627 ...
0.03419689  0.02694301  0.00518135]]
260 data[24,:,:].shape is (32, 32)
261 data[24,:,:].dtype is float64
262 data[24,:,:] =
263     [[0.          0.0238342  0.03626943
...    0.00103627  0.00207254  0.03005181]
264     [0.          0.02279793  0.03419689 ...
0.01761658  0.01554404  0.07668394]
265     [0.          0.0134715  0.02072539 ...
0.01036269  0.16580311  0.15233161]
266     ...

```

```
267 [0.00310881 0.00829016 0.01761658 ...  
0.01139896 0.00518135 0.00310881]  
268 [0.00207254 0.00207254 ...  
0.01658031 0.00103627 0.01036269]  
269 [0.0 0.0 0.0 ...  
0.03005181 0.0238342 0.00414508]]  
270 data[25,:,:].shape is (32, 32)  
271 data[25,:,:].dtype is float64  
272 data[25,:,:] =  
273 [[0.0134715 0.04455959  
... 0.00310881 0.00829016 0.02901554]  
274 [0.01865285 0.02279793 ...  
0.02072539 0.01450777 0.08497409]  
275 [0.0134715 0.01761658 ...  
0.00310881 0.18341969 0.15854922]  
276 ...  
277 [0.00207254 0.01243523 0.01761658 ...  
0.00414508 0.00103627 0.]  
278 [0.00310881 0.00207254 ...  
0.01865285 0.00414508]  
279 [0.00414508 0.00310881 ...  
0.02176166 0.01450777 0.00310881]]  
280 data[26,:,:].shape is (32, 32)  
281 data[26,:,:].dtype is float64
```

```

282 data[26,:,:] =
283 [[0.          0.00932642  0.04870466
... 0.00414508  0.00518135  0.0238342 ]
284 [0.          0.0134715   0.01968912 ...
0.02487047  0.01554404  0.09533679]
285 [0.          0.00932642  0.01554404 ...
0.00518135  0.18238342  0.18445596]
286 ...
287 [0.00103627  0.00414508  0.00621762 ...
0.00932642  0.00310881  0.          ]
288 [0.          0.          0.          ...
0.0238342   0.          0.00725389]
289 [0.          0.          0.00207254 ...
0.02072539  0.02487047  0.00932642]]
290 data[27,:,:].shape is (32, 32)
291 data[27,:,:].dtype is float64
292 data[27,:,:] =
293 [[0.00103627  0.02487047  0.04663212
... 0.00310881  0.00414508  0.02176166]
294 [0.          0.02072539  0.02694301 ...
0.02279793  0.01139896  0.09119171]
295 [0.          0.00725389  0.01968912 ...
0.01658031  0.22176166  0.17823834]
296 ...

```

```
297 [0.00207254 0.00310881 0.00932642 ...  
0.00725389 0.00725389 0.00207254]  
298 [0.          0.00207254 0.00414508 ...  
0.00932642 0.          0.0134715 ]  
299 [0.          0.00207254 0.00414508 ...  
0.0238342 0.01761658 0.00310881]]  
300 data[28,:,:].shape is (32, 32)  
301 data[28,:,:].dtype is float64  
302 data[28,:,:) =  
303 [[0.          0.03005181 0.05492228  
... 0.00103627 0.00207254 0.02176166]  
304 [0.          0.03834197 0.0238342 ...  
0.02072539 0.01761658 0.07875648]  
305 [0.          0.02487047 0.01554404 ...  
0.01243523 0.27046632 0.21036269]  
306 ...  
307 [0.00207254 0.00414508 0.00829016 ...  
0.00932642 0.00518135 0.00207254]  
308 [0.          0.00103627 0.00207254 ...  
0.01865285 0.          0.01243523]  
309 [0.          0.00103627 0.00103627 ...  
0.02487047 0.03937824 0.00829016]]  
310 data[29,:,:].shape is (32, 32)  
311 data[29,:,:].dtype is float64
```

```

312 data[29,:,:] =
313     [[0.          0.02072539  0.0507772
...  0.00207254  0.00518135  0.04559585]
314     [0.          0.02279793  0.02487047 ...
0.01968912  0.01450777  0.07772021]
315     [0.          0.01761658  0.01450777 ...
0.01139896  0.15854922  0.14611399]
316     ...
317     [0.00414508  0.00518135  0.00621762 ...
0.00725389  0.00932642  0.00207254]
318     [0.          0.00207254  0.00207254 ...
0.02176166  0.00103627  0.00725389]
319     [0.          0.00103627  0.00414508 ...
0.02694301  0.0238342  0.00725389]]
320 data[30,:,:].shape is (32, 32)
321 data[30,:,:].dtype is float64
322 data[30,:,:] =
323     [[0.          0.01865285  0.05699482
...  0.00829016  0.00310881  0.03834197]
324     [0.          0.01865285  0.03108808 ...
0.03419689  0.01865285  0.09430052]
325     [0.          0.01450777  0.0238342 ...
0.0238342  0.23834197  0.13989637]
326     ...

```

```
327 [0.00414508 0.00621762 0.00725389 ...
    0.00932642 0.00932642 0.00518135]
328 [0.          0.          0.00207254 ...
    0.01761658 0.          0.00932642]
329 [0.          0.          0.00103627 ...
    0.03419689 0.03108808 0.01554404]]
330 data[31,:,:].shape is (32, 32)
331 data[31,:,:].dtype is float64
332 data[31,:,:] =
333 [[0.          0.01139896 0.03419689
    ... 0.00829016 0.00310881 0.03937824]
334 [0.          0.02487047 0.02901554 ...
    0.03005181 0.01865285 0.09015544]
335 [0.          0.01865285 0.02072539 ...
    0.02590674 0.3015544  0.18031088]
336 ...
337 [0.00518135 0.00518135 0.00829016 ...
    0.00932642 0.01139896 0.00621762]
338 [0.          0.00103627 0.00310881 ...
    0.01139896 0.          0.00932642]
339 [0.          0.          0.          ...
    0.02694301 0.03108808 0.01036269]]
340 data[32,:,:].shape is (32, 32)
341 data[32,:,:].dtype is float64
```

```

342 data[32,:,:] =
343 [[0.00103627 0.03419689 0.04766839
... 0.00725389 0.01036269 0.04559585]
344 [0.          0.03523316 0.03005181 ...
0.0238342  0.01139896 0.09222798]
345 [0.          0.0238342  0.01968912 ...
0.02279793 0.24455959 0.19792746]
346 ...
347 [0.00207254 0.00414508 0.00829016 ...
0.00414508 0.00932642 0.00829016]
348 [0.          0.          0.          ...
0.00932642 0.          0.00932642]
349 [0.          0.          0.00103627 ...
0.02072539 0.0238342  0.01036269]]
350 data[33,:,:].shape is (32, 32)
351 data[33,:,:].dtype is float64
352 data[33,:,:] =
353 [[0.          0.02694301 0.04248705
... 0.00310881 0.00414508 0.04663212]
354 [0.          0.03523316 0.02797927 ...
0.02694301 0.0134715  0.08290155]
355 [0.00103627 0.01658031 0.02487047 ...
0.01450777 0.23834197 0.14300518]
356 ...

```



```

357 [0.00518135 0.01243523 0.0134715 ...
    0.00829016 0.01139896 0.00310881]
358 [0.          0.00103627 0.00207254 ...
    0.00414508 0.          0.00310881]
359 [0.          0.          0.00310881 ...
    0.02279793 0.01554404 0.00932642]]
360 data[34,:,:].shape is (32, 32)
361 data[34,:,:].dtype is float64
362 data[34,:,:] =
363 [[0.          0.01554404 0.03419689
    ... 0.00310881 0.00725389 0.03626943]
364 [0.          0.02797927 0.02797927 ...
    0.02694301 0.01243523 0.07979275]
365 [0.          0.01865285 0.01968912 ...
    0.02279793 0.22487047 0.12953368]
366 ...
367 [0.00310881 0.00518135 0.00829016 ...
    0.00621762 0.00829016 0.00621762]
368 [0.          0.00103627 0.00103627 ...
    0.01139896 0.00103627 0.00932642]
369 [0.          0.          0.00103627 ...
    0.0238342  0.02176166 0.01139896]]
370 data[35,:,:].shape is (32, 32)
371 data[35,:,:].dtype is float64

```

```

372 data[35,:,:] =
373 [[0.00103627 0.02072539 0.03523316
... 0.00725389 0.00310881 0.02901554]
374 [0.          0.02176166 0.02797927 ...
0.03626943 0.01243523 0.07357513]
375 [0.          0.01554404 0.02487047 ...
0.01658031 0.19481865 0.10051813]
376 ...
377 [0.00103627 0.00310881 0.00829016 ...
0.01036269 0.00932642 0.00310881]
378 [0.          0.00103627 0.00207254 ...
0.01243523 0.          0.00829016]
379 [0.          0.          0.00103627 ...
0.02797927 0.02590674 0.01450777]]
380 data[36,:,:].shape is (32, 32)
381 data[36,:,:].dtype is float64
382 data[36,:,:] =
383 [[0.          0.01658031 0.02694301
... 0.00414508 0.00414508 0.03834197]
384 [0.          0.01865285 0.02279793 ...
0.01865285 0.00725389 0.08186528]
385 [0.          0.01036269 0.02901554 ...
0.01450777 0.17927461 0.10466321]
386 ...

```

```
387 [0.00310881 0.00518135 0.00621762 ...
    0.00518135 0.00103627 0.00310881]
388 [0.00207254 0.00310881 0.00103627 ...
    0.00310881 0.          0.01243523]
389 [0.          0.00310881 0.00103627 ...
    0.02694301 0.02590674 0.01658031]]
390 data[37,:,:].shape is (32, 32)
391 data[37,:,:].dtype is float64
392 data[37,:,:] =
393 [[0.          0.01554404 0.02279793
    ... 0.00414508 0.00518135 0.03212435]
394 [0.          0.02487047 0.02176166 ...
    0.02694301 0.01761658 0.06217617]
395 [0.          0.0238342  0.02072539 ...
    0.01243523 0.14196891 0.0984456 ]
396 ...
397 [0.00207254 0.00207254 0.00932642 ...
    0.00829016 0.00725389 0.00414508]
398 [0.00103627 0.00518135 0.00518135 ...
    0.00518135 0.          0.00932642]
399 [0.00103627 0.00518135 0.00207254 ...
    0.01554404 0.01761658 0.01036269]]
400 data[38,:,:].shape is (32, 32)
401 data[38,:,:].dtype is float64
```

```

402 data[38,:,:] =
403     [[0.          0.02590674  0.04974093
404        ...  0.00621762  0.00207254  0.05699482]
405     [0.          0.01968912  0.02694301  ...
406        0.01865285  0.00725389  0.08497409]
407     [0.          0.01139896  0.01968912  ...
408        0.0134715   0.15336788  0.1253886  ]
409     ...
410     [0.00207254  0.00414508  0.01036269  ...
411        0.00621762  0.00518135  0.00207254]
412     [0.          0.          0.          ...
413        0.01139896  0.          0.00518135]
414     [0.          0.          0.00103627  ...
415        0.02590674  0.01658031  0.00621762]]
416 data[39,:,:].shape is (32, 32)
417 data[39,:,:].dtype is float64
418 data[39,:,:] =
419     [[0.          0.01139896  0.04663212
420        ...  0.00725389  0.00207254  0.04041451]
421     [0.          0.01036269  0.01450777  ...
422        0.0238342   0.01036269  0.09430052]
423     [0.          0.00518135  0.01554404  ...
424        0.01450777  0.2         0.14818653]
425     ...

```

```

417 [0.00207254 0.00518135 0.00621762 ...
    0.00621762 0.00518135 0.00103627]
418 [0.          0.00207254 0.00414508 ...
    0.01036269 0.          0.00518135]
419 [0.          0.00207254 0.00310881 ...
    0.01968912 0.01450777 0.00207254]]
420 data[40,:,:].shape is (32, 32)
421 data[40,:,:].dtype is float64
422 data[40,:,:] =
423 [[0.          0.0238342  0.01865285
    ... 0.00829016 0.00725389 0.0507772 ]
424 [0.          0.01968912 0.02590674 ...
    0.03108808 0.02072539 0.09119171]
425 [0.          0.01036269 0.02279793 ...
    0.01865285 0.0207254  0.10880829]
426 ...
427 [0.          0.00310881 0.01139896 ...
    0.00932642 0.00621762 0.00621762]
428 [0.          0.00518135 0.00621762 ...
    0.00725389 0.          0.00621762]
429 [0.          0.00207254 0.          ...
    0.02072539 0.01968912 0.00414508]]
430 data[41,:,:].shape is (32, 32)
431 data[41,:,:].dtype is float64

```

```

432 data[41,:,:] =
433     [[0.          0.01658031  0.03005181
...    0.00518135  0.00207254  0.03108808]
434     [0.          0.01865285  0.01865285 ...
0.01554404  0.00725389  0.08911917]
435     [0.          0.01450777  0.02072539 ...
0.01554404  0.19170984  0.1119171 ]
436     ...
437     [0.          0.00103627  0.00518135 ...
0.00414508  0.00518135  0.00103627]
438     [0.          0.00207254  0.00207254 ...
0.01139896  0.          0.00103627]
439     [0.          0.00103627  0.00207254 ...
0.01450777  0.0134715   0.00932642]]
440 data[42,:,:].shape is (32, 32)
441 data[42,:,:].dtype is float64
442 data[42,:,:] =
443     [[0.          0.0134715   0.04248705
...    0.00414508  0.00725389  0.04248705]
444     [0.          0.0134715   0.01450777 ...
0.0238342   0.01036269  0.07357513]
445     [0.          0.00621762  0.0134715   ...
0.01139896  0.16476684  0.08911917]
446     ...

```

```
447 [0.00103627 0.00310881 0.01139896 ...
    0.00518135 0.00310881 0.
448 [0.          0.00310881 0.00518135 ...
    0.00518135 0.          0.00414508]
449 [0.          0.00414508 0.00207254 ...
    0.01036269 0.0134715  0.00310881]]
450 data[43,:,:].shape is (32, 32)
451 data[43,:,:].dtype is float64
452 data[43,:,:] =
453 [[0.          0.0134715  0.02694301
    ... 0.00621762 0.00621762 0.0373057 ]
454 [0.          0.00829016 0.0134715  ...
    0.03523316 0.01243523 0.07357513]
455 [0.          0.00725389 0.01139896 ...
    0.02901554 0.20414508 0.09948187]
456 ...
457 [0.00310881 0.00414508 0.00414508 ...
    0.00725389 0.00725389 0.
458 [0.          0.00414508 0.00310881 ...
    0.01243523 0.          0.00518135]
459 [0.00103627 0.00207254 0.00103627 ...
    0.01658031 0.01036269 0.00207254]]
460 data[44,:,:].shape is (32, 32)
461 data[44,:,:].dtype is float64
```

```

462 data[44,:,:] =
463 [[0.          0.01243523  0.03108808
...  0.00207254  0.00207254  0.03316062]
464 [0.          0.01036269  0.01243523 ...
0.01554404  0.01243523  0.04663212]
465 [0.          0.00829016  0.01036269 ...
0.01761658  0.14507772  0.08290155]
466 ...
467 [0.00207254  0.00207254  0.00414508 ...
0.00414508  0.00103627  0.
]
468 [0.          0.          0.00103627 ...
0.00103627  0.          0.00414508]
469 [0.          0.          0.00103627 ...
0.00932642  0.01036269  0.00829016]]
470 data[45,:,:].shape is (32, 32)
471 data[45,:,:].dtype is float64
472 data[45,:,:] =
473 [[0.          0.01036269  0.0238342
...  0.00310881  0.00103627  0.03316062]
474 [0.          0.00725389  0.00414508 ...
0.00932642  0.00414508  0.06839378]
475 [0.          0.00932642  0.01139896 ...
0.00414508  0.13264249  0.0880829 ]
476 ...

```



```

477 [0.          0.          0.00621762 ...
    0.00725389 0.00310881 0.          ]
478 [0.          0.00310881 0.00414508 ...
    0.00518135 0.          0.00207254]
479 [0.          0.00310881 0.00103627 ...
    0.01139896 0.01865285 0.00725389]]
480 data[46,:,:].shape is (32, 32)
481 data[46,:,:].dtype is float64
482 data[46,:,:] =
483 [[0.          0.0134715  0.02694301
    ... 0.00310881 0.00207254 0.02901554]
484 [0.          0.00829016 0.01139896 ...
    0.01554404 0.00310881 0.05388601]
485 [0.          0.00518135 0.00725389 ...
    0.01554404 0.13782383 0.07357513]
486 ...
487 [0.00207254 0.00103627 0.00621762 ...
    0.00725389 0.00310881 0.          ]
488 [0.00103627 0.          0.          ...
    0.00725389 0.          0.00414508]
489 [0.          0.          0.          ...
    0.01968912 0.0134715  0.00725389]]
490 data[47,:,:].shape is (32, 32)
491 data[47,:,:].dtype is float64

```

```
492 data[47,:,:] =
493 [[0.          0.01139896 0.03212435
... 0.00310881 0.00103627 0.0238342 ]
494 [0.          0.01243523 0.00621762 ...
0.01761658 0.00725389 0.05492228]
495 [0.          0.00518135 0.00310881 ...
0.02072539 0.11709845 0.06528497]
496 ...
497 [0.00103627 0.00414508 0.00621762 ...
0.00518135 0.00310881 0.          ]
498 [0.          0.          0.          ...
0.00725389 0.          0.          ]
499 [0.          0.          0.          ...
0.00518135 0.00621762 0.00207254]]
500
501 Process finished with exit code 0
502
```