N… - counts/step

…..index - integer array from 1-n say

dt…. = timestep , value for gaps between = interval/

T… - total time interval

* Simulates time

t....- array of times

|  |  |  |
| --- | --- | --- |
| Old name | New name | meaning |
| disk\_time\_interval | dt\_annulus | -Array of time intervals (dt) for each annuli i.e one number for each annulus |
|  | local\_dt\_annulus | Same as above within definition |
| disk\_time\_divisions | N\_dt\_annulus | Number of time intervals per annulus |
|  | local\_N\_dt\_annulus | Same as above within definition |
| time\_div, times | local\_N\_dt\_annulus |  |
|  |  |  |
| disk\_M\_dot | M\_dot | Array of the mass flow at a particular time in a particular annulus.  Value at each t\_pos and for each annulus.  Major mass flow |
|  | local\_ M\_dot |  |
| disk\_m\_dot | m\_dot | Array of the mass flow at a particular time in a particular annulus.  Value at each t\_pos and for each annulus.  Variation in mass flow |
|  | local\_ m\_dot |  |
| disk\_annulus\_start | annulus\_t\_pos\_start | Start location for each annulus in t\_pos |
|  | local\_annulus\_t\_pos\_start |  |
| disk\_temperature | disk\_temperature | (just to validate black body spectrum) |
| m\_dot | annulus\_m\_dot | m\_dot for a particular annulus |
| time | time\_axis | Used in plots |
| time\_series | time\_axis | Used in plots |
| t | t | Always a time |
| t\_pos | t\_pos | Always the location of a particular dt.  e.g numbered each dt in the annulus. |
| N | number\_of\_annuli |  |
|  |  |  |