

8/11/24

destripe.C variables

* Multiple grande dimension variables are because of destriping code supporting previous and following data granules

- allows for more precise destriping for the first and last scans of current granule

- $(nx0, ny0)$ = refer to previous data granules

- $(nx1, ny1)$ = current granule

- $(nx2, ny2)$ = following granule

these definitions can be used to better understand the code and how diff. variables are being affected at diff. parts

* BUT, you don't always need previous and following granules to destripe the current granule - so $ny0$ and $ny1$ were created

Evaluating conditions

- $nx1$ and $ny1$ are more often used to refer to the data because they refer to the current granule, which is what we are focusing on destriping

- $nx1$ and $ny1$ values are the primary focus of the program

- $nx2, ny2$ values are a sum of several values because they refer to the following granule, which may be dependent on other variables

additional notes

- the granule size remains the same after destriping
- ny_a starts off at 0 \rightarrow changes val to 80 if previous granule is supplied and used
 \hookrightarrow if $ny_0 < 80$, $ny_a = ny_0$
- ny_a is used in association with ny_0 and nx_0
- ny_b starts off at 0 \rightarrow changes val to 80 if following granule is supplied and used
 \hookrightarrow if $ny_2 < 80$, $ny_b = ny_2$

* $ny_a \rightarrow$ refers to the existence and usage of previous granule

* $ny_b \rightarrow$ refers to the existence and usage of next granule