

## Project Proposal

Provide a one-page project proposal in which the following items should be addressed:

- 1) Project description
- 2) Block diagram of the architecture/algorithm you propose to implement using CARTE-C
- 3) List of references you might/will consult with

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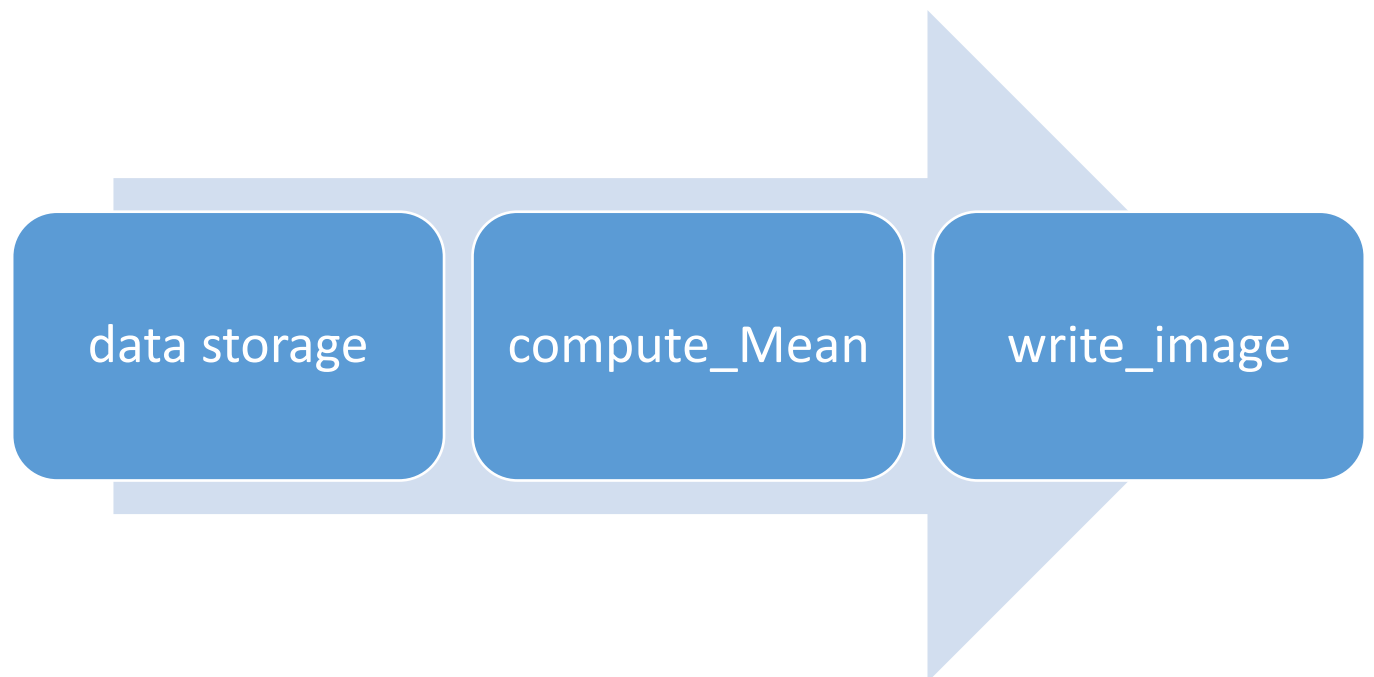
KUID# 2842942

### Project Description:

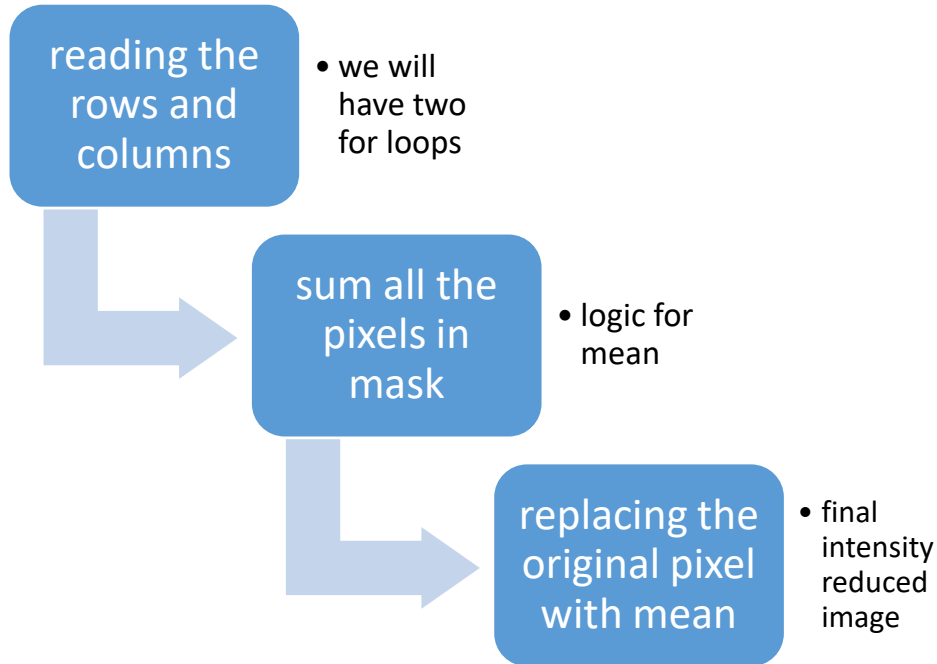
I'm Planning to implement **Average Mean Filter algorithm**. It is used for smoothing of images i.e. reducing the amount of intensity between pixels. The main idea is to replace each pixel value with the mean value of its neighbor pixels. Pixels that are included in the averaging operation are specified by the mask. The larger the mask becomes the more blurring of image takes place.

$$\text{Mean}(A) = 1/N^2 \sum A(x+i, y+j)$$

### Block Diagram:



### Compute Function:



**Will try to make this application as parallel as I could.**

### References:

1. Rafael C. Gonzalez and Richard E. Woods, *Digital Image Processing*. Addison-Wesley, 1992.
2. William K. Pratt, *Digital Image Processing*. Wiley, 1991.
3. <http://www.librow.com/articles/article-5>