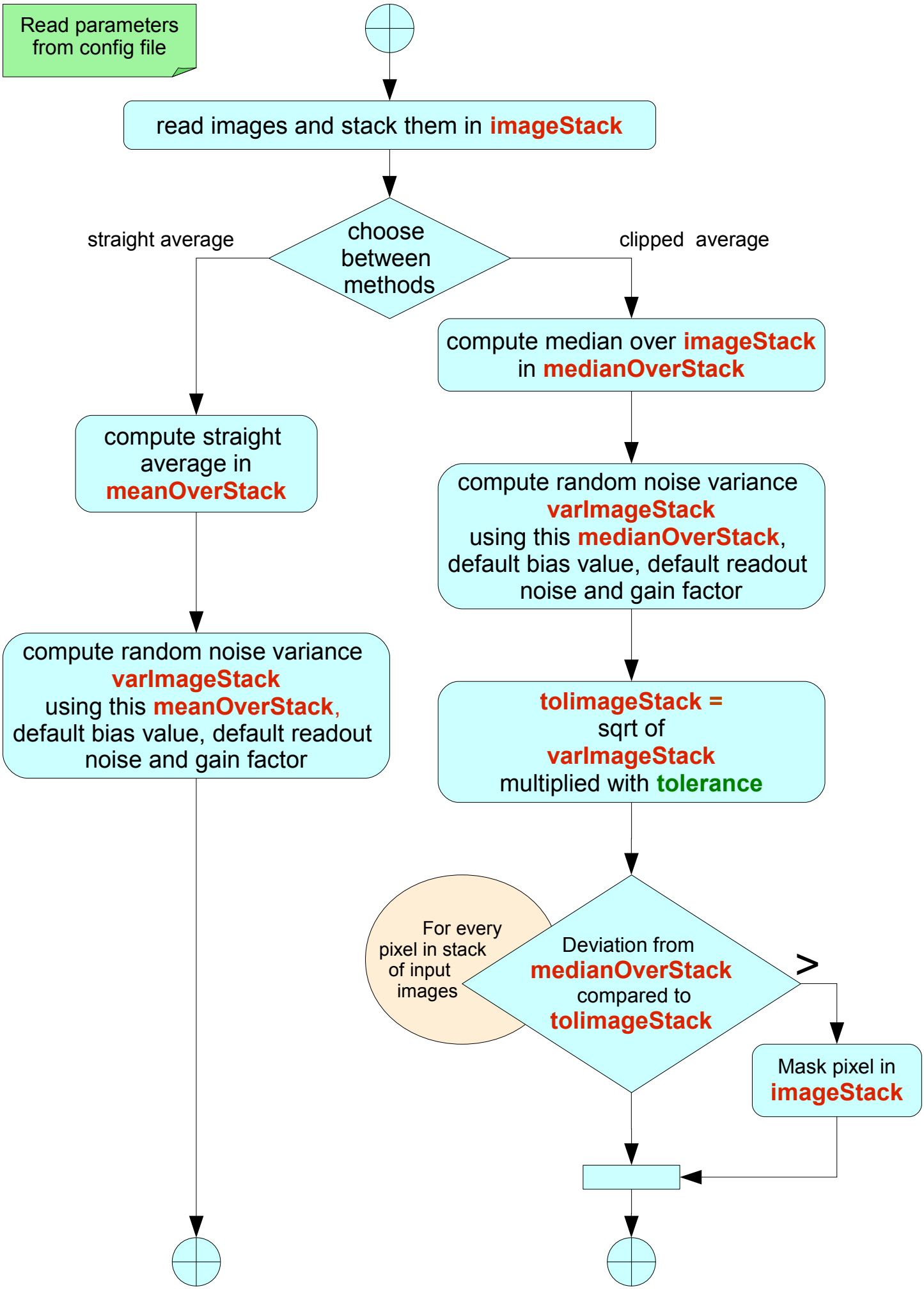
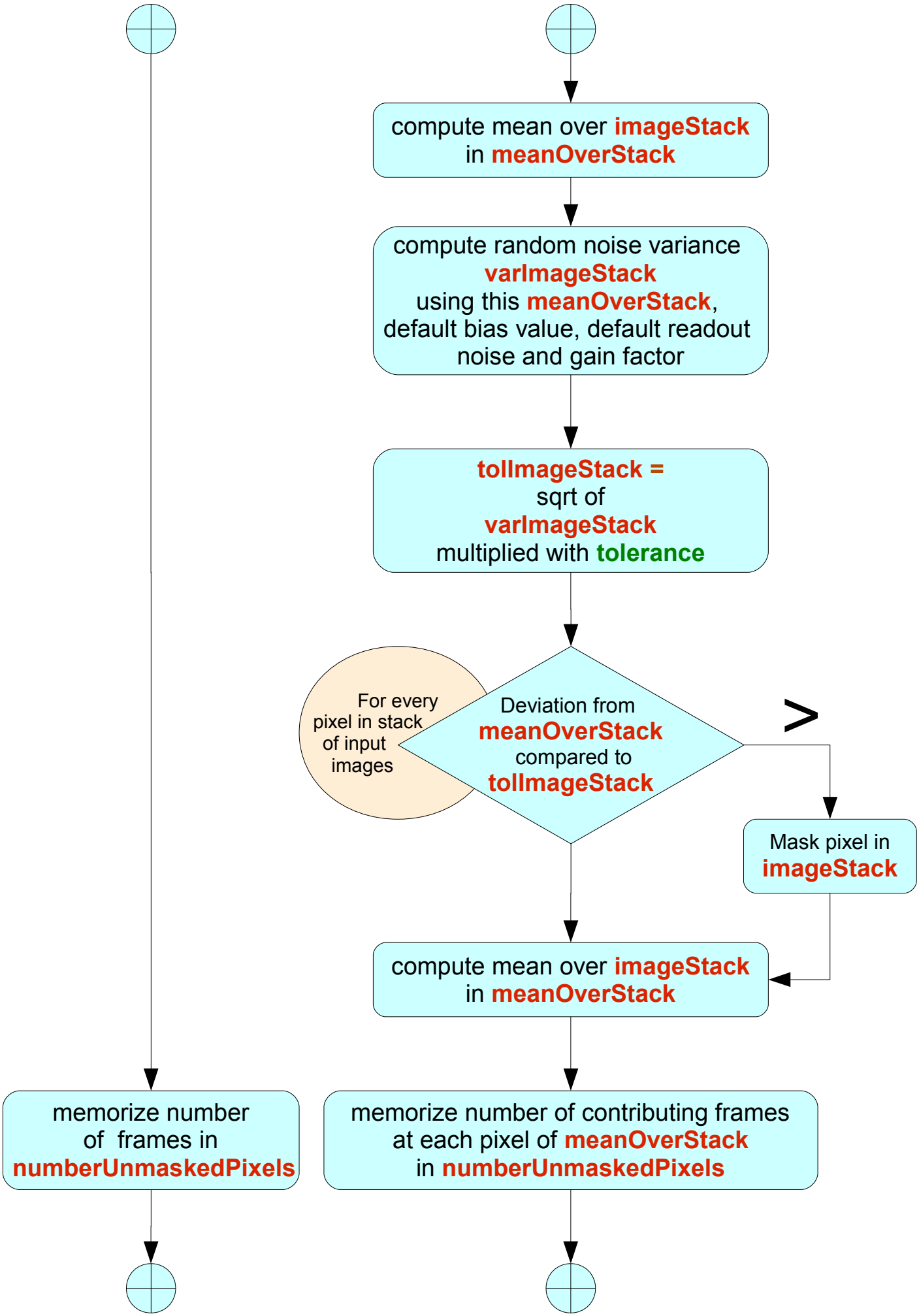
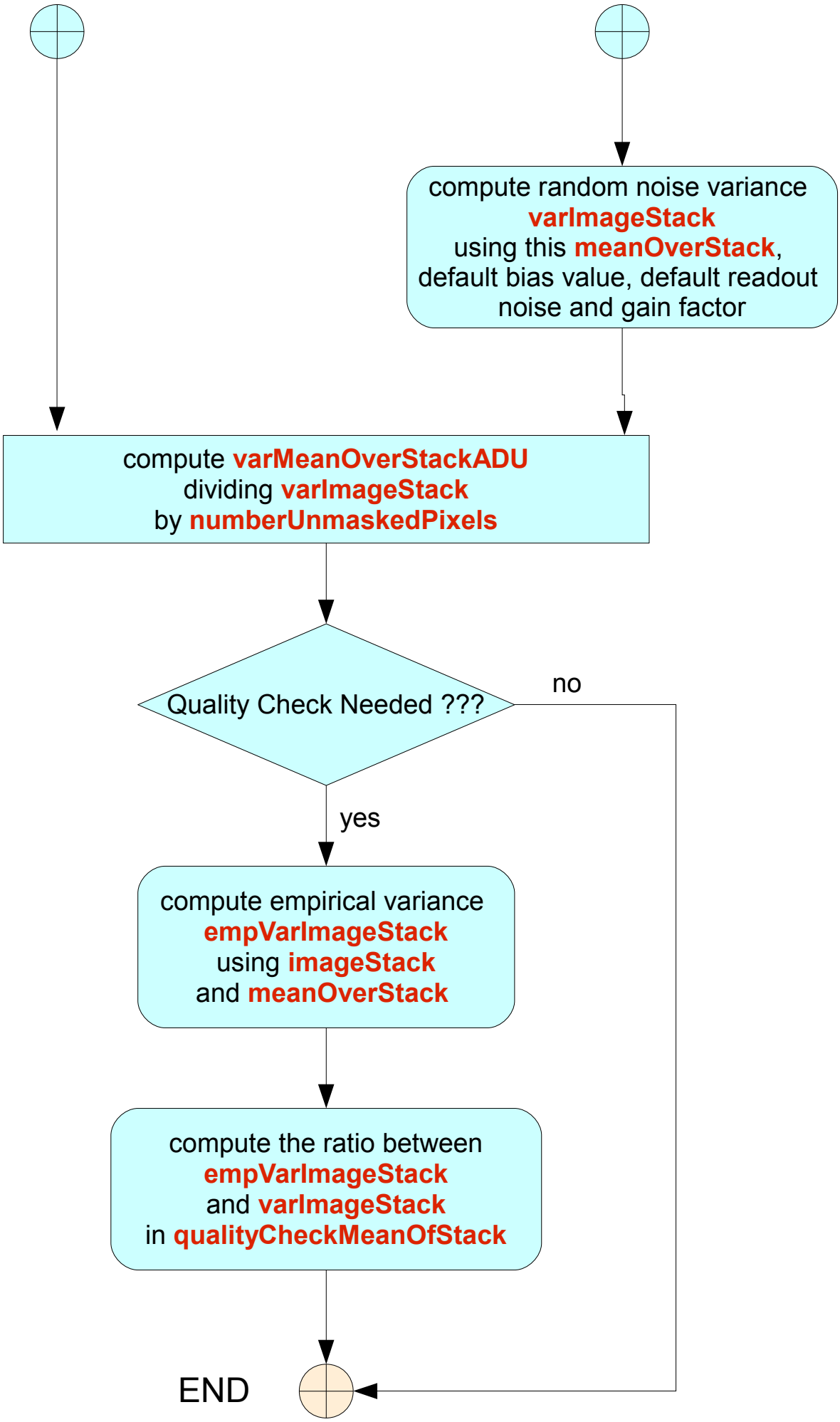

Read parameters from config file
read images and stack them in imageStack
choose between methods
straight average
clipped average
compute median over imageStack in medianOverStack
compute straight average in meanOverStack
compute random noise variance varImageStack using this medianOverStack, default bias value, default readout noise and gain factor
compute random noise variance varImageStack using this meanOverStack, default bias value, default readout noise and gain factor
tolimageStack = sqrt of varImageStack multiplied with tolerance
For every pixel in stack of input images
Deviation from medianOverStack compared to tolimageStack
>
Mask pixel in imageStack


compute mean over imageStack in meanOverStack
compute random noise variance varImageStack using this meanOverStack, default bias value, default readout noise and gain factor
tolImageStack = sqrt of varImageStack multiplied with tolerance
For every pixel in stack of input images
Deviation from meanOverStack compared to tolImageStack
>
Mask pixel in imageStack
compute mean over imageStack in meanOverStack
memorize number of frames in numberUnmaskedPixels
memorize number of contributing frames at each pixel of meanOverStack in numberUnmaskedPixels


compute random noise variance
varImageStack
using this meanOverStack,
default bias value, default readout
noise and gain factor
compute varMeanOverStackADU
dividing varImageStack
by numberUnmaskedPixels
Quality Check Needed ???
no
yes
compute empirical variance
empVarImageStack
using imageStack
and meanOverStack
compute the ratio between
empVarImageStack
and varImageStack
in qualityCheckMeanOfStack
END