This patch adds a Standard Deviation function to the Math Module. It takes an array and finds the standard deviation of all its elements, as long as they are numbers.

Why do we need to specially treat the 2nd central moment, that is standard deviation, than the other nth moment, such as skewness (3rd) and kurtosis (4th)?

You can use NArray for that reason. See http://narray.rubyforge.org/index.html.en