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Subject: Re: Conversion floating point to byte or integer

Posted by [M. Katz](#) on Thu, 11 Oct 2007 21:04:11 GMT

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You have to guard against byte values going below zero.

Here is what I would recommend.

1) Immediately convert the raw data into float, before any processing.

2) Subtract the background array but "crop" any negative values at zero.

`image1 = (raw_data - background) > 0.`

3) Then apply your calibration

`image2 = image1 * calibration`

If instead you have to divide by the calibration array, watch out for zeros.

`image2 = image1 / (calibration > 1.)` might be a format you should consider.

(The 1. here is just an example. It depends on your actual data.)

Of course be careful about spikes or zeros in the calibration file or background file. Those can cause problems.

MKatz

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