Subject: Re: Oooh...! It's harder than I thought!! To get average of each line using only meaningful data
Posted by Conor on Tue, 24 Jul 2007 15:52:27 GMT

On Jul 24, 11:40 am, "edward.s.mei...@aero.org" <mei...@aero.org>
wrote:
> On Jul 24, 8:47 am, Conor <cmanc...@gmail.com> wrote:
>
>
>
>> totals = total(data_arr,1)/total(data_arr<1,1)
>
>> total(data_arr,1) returns a row vector where each element is the total
>> of a single line of data. total(data_arr<1,1) does essentially the
>> same thing, but first it imposes a ceiling on the array, so that no
>> value is greater than 1. Then, when you total across a line, what you
>> get is the total number of non-zero elements.
>
> Very clever, Conor! It just needs one small change: You have assumed
> that the total number of non-zero elements is, well, non-zero. If
> there are no non-zero elements, it will choke, so just do,
>
> totals = total(data_arr,1)/(total(data_arr<1,1) > 1)
>
> I use the */(* > 1) trick quite frequently.
>
> Ed

Good call. I always forget to check for things like that :) On a
related note, I've also assumed that the data is integer data. This
would fail for floats (or, at least for any values between 0 and 1)