Subject: Re: simple array math question
Posted by Pepijn Kenter on Fri, 24 Jan 2003 12:43:30 GMT
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"Craig Markwardt" <craigmnet@cow.physics.wisc.edu> wrote in message news:onwul4cu8t.fsf@cow.physics.wisc.edu...
>
> Heinz Stege <reply_to_posting@arcor.de> writes:
>> On Thu, 16 Jan 2003 14:05:27 -0600, "Sean Raffuse" <sean@me.wustl.edu>
>> wrote:
>>
>>>> > a=[[1,2,3],[4,5,6],[7,8,9]]
>>>
>>>> > b=[1,2,3]
>>>
>>> What is the best (read, fastest) way to multiply b by each individual
row of
>>> a? I would like to return a result of:
>>>
>>> [[1,4,9],[4,10,18],[7,14,27]]
>>
>>
>> result=a*b(*,intarr(3))
>
> WOW! I've never seen that! It scares me how cool that is. :-)

That is mighty cool indeed! Is that documented somewhere?

And does any IDL-wizard know a similar trick to average each row/column of a?
i.e. to replace the following lines:

result = dblarr(3)
for i = 0, 2 do result[i] = mean(a[*,i])

I don't think it's possible, but who knows.

Pepijn Kenter.