Subject: Re: Center of mass???
Posted by Jonathan Joseph on Tue, 09 Nov 1999 08:00:00 GMT
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Well, I'm not going to take up JD's challenge,
but are you all sure you are answering the right
question?

I mean sure, great, if you happen to have
an MxNx.... array of masses then you've got
everything you need. But when I first read
Anders' post, I thought, "gee that sounds simple."

I thought of N masses at N locations,

m = 1D array of N masses
pos = D x N array of locations of the masses in D dimensions

then:

```
s=size(pos, /dimensions)
mm = m ## replicate(1,s(0))
cm = total(pos * mm, 2) / total(m)
```

Please someone correct me if I'm wrong.
Also, Is there a better way of multiplying
an MxN array by a one dimensional array of
length N such that each row of the MxN array
is multiplied by the corresponding element
of the one dimensional array?

-Jonathan