Subject: Re: Displaying 3-D vector fields Posted by jim.blackwell on Mon, 18 Nov 2002 16:43:27 GMT View Forum Message <> Reply to Message

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"Rick Towler" <rtowler@u.washington.edu> wrote in message
news:<ar10ak$22do$1@nntp6.u.washington.edu>...
> "Jim" <iim.blackwell@gsfc.nasa.gov> wrote
>
>> what scales the size of the arrow (the length of the arrow relative to
>> the shaft)?
>
> The vector is scaled according to the sqrt() of the sum of the squares of
> the components of the magnitude. The *entire* vector is scaled, head and
> all since I am using the model's transformation matrix to do the work for
 me. The vector is not drawn if the magnitude is 0.
>
>> Is the default vector that is drawn of unit length?
 Yes, the default vector is 1 unit long. It's default magnitude is [0,0,-1]
> which makes it parallel to the z axis pointing away from the viewer. It's
> default location is [0,0,0].
> -Rick
```

I see. Say have you looked at the IDL program "vector_field"? Seems to do something similar in that it creates vectors, however I don't know offhand how to implement this in IDL object graphics to see what it looks like?