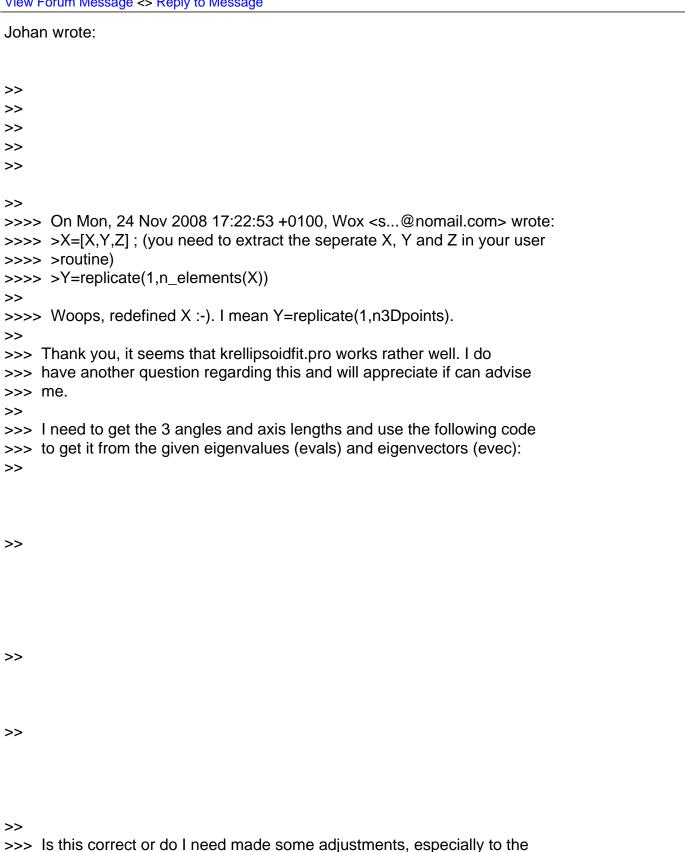
Subject: Re: Least squares fit of a model to a skeleton consisting out of 3D points. Posted by pgrigis on Wed, 03 Dec 2008 14:37:27 GMT

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```
>>> orientation?
>>
>>> Thanks
>>> Johan Marais
>>
>> That does indeed give you 3 angles, but it doesn't fully specify the
>> orientation. Which angles are you looking for?
>>
>> Incidentally, I'm not guite sure why you have that factor of 2 in the
>> definition of semia etc., but I suppose it depends what went into the
>> matrix you're diagonalizing...
>>
>> -Jeremy.- Hide quoted text -
>>
>> - Show quoted text -
>
> I tried different ways of getting the angles but it seems I am still
> at a lost. The angles I am looking for is as follow:
> If you have an orthogonal reference framework and the ellipsoid are
> tilted in it. I am looking for the angles that the 3 axes of the
```

The angle between vectors a and b in IDL is given by

arccos( total(a\*b) / sqrt( total(a\*a)\*total(b\*b) ) )

## Paolo

> reference framework. I assume that for each of them you need to use

> ellipsoid make with the xy-plane, the yz-plane and yz-plane of the

- > all 3 relevant eigenvectors for each axes of the ellipsoid, or it
- > could be only 2?