Subject: Re: Finding distance with longitude and latitude
Posted by wlandsman on Mon, 15 Apr 2013 02:38:26 GMT
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IDL doesn't have an ATAN2 function. Instead, you call ATAN with two arguments. Look at the online help for ATAN

On Sunday, April 14, 2013 9:17:41 PM UTC-4, gpet...@ucsc.edu wrote:
> On Sunday, April 14, 2013 4:49:07 PM UTC-7, wlandsman wrote:
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>> On Sunday, April 14, 2013 7:45:40 PM UTC-4, wlandsman wrote:
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>>> On Sunday, April 14, 2013 7:22:44 PM UTC-4, gpet...@ucsc.edu wrote:
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>>>>> a=sqrt((cos(lat2)*sin(dlon))^2 + (cos(lat1)*sin(lat2)-sin(lat1)*cos(lat2)*cos(dlon))^2)/(sin(lat1)*sin(lat2)+cos(lat1)*cos(lat2)*cos(dlat))
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>>> c= atan(a)

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>>> The Wikipedia article you quote says
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>>> "When programming a computer, one should use the atan2() function rather than the ordinary arctangent function (atan()), in order to simplify handling of the case where the denominator is zero, and to compute \Delta\widehat{\sigma}\;\! unambiguously in all quadrants"
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>> I accidentally hit SEND too soon, but you want to use the two argument form of ATAN, e.g.
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>> c = atan(numerator, denominator)
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>> --Wayne
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> When ever i tried to use atan2() it said that the variable was undefined. I dont know why that would happen

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