
Subject: Re: Function Maximum
Posted by [Benjamin Panter](#) on Thu, 19 Jun 2003 15:02:11 GMT
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Reimar Bauer wrote:

> Kate wrote:
>
>
>> If I have a function definition, say it is
>>
>> FUNCTION MYGAMMA, X, P
>> RETURN, P[0]*(X^P[1])*EXP(-1*X/P[2])
>> END
>>
>> Where P holds my fit parameters that are already determined.
>>
>> If I want to find a local maximum in a certain range is it possible to
>> do this with an existing written IDL function?
>
>
> What's with MAX()

<hopping out from lurking for a moment>

I think that Kate is asking to find the maximum of an expression rather than the maximum of an array.

An inelegant solution that might work is to evaluate the function in the range of interest to as high a precision as is computationally possible - and then run MAX() on it - but there must be a nicer way? I think this method will fall down if there is a very sharp global max but a wider local max

Apologies for not being much of a mathematician and failing to provide a better way!

<back to lurking & learning...>

Ben

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Ben Panter, Edinburgh
My name (no spaces)@bigfoot which is a com.
