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Subject: Re: IDL is not accurate enough!  
Posted by [pgrigis](#) on Thu, 11 Sep 2008 14:35:27 GMT  
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noahh.schwa...@gmail.com wrote:

>> On Thu, 28 Aug 2008, noahh.schwa...@gmail.com wrote:  
>>> Hi,  
>>  
>>> I've been having problems with IDL accuracy. I'm trying to perform  
>>> calculations using the gamma function. The problem is that it grows  
>>> VERY fast! Performing this calculation in double (namely gamma(x)/  
>>> gamma(y) with x and y big) yields the result: NaN...  
>>> Would it be possible to use a program like 'Mathematica' (or any  
>>> other) and to plug it in my ILD program? Some kind of CALL\_EXTERNAL  
>>> that is to say. If it is possible, how can I do it and what is the  
>>> best program to use?  
>>  
>>> Thanks,  
>>> Noah  
>>  
>> gamma(x)/gamma(y) => exp(lngamma(x)-lngamma(y))  
>>  
>> regards,  
>> lajos  
>  
>  
> lngamma works fine for my propose! Would you know if an equivalent  
> function exists for the beselk function? Something like lnbeselk?  
> beselk(x) for x>709 doesn't seem to work.

Isn't 0 a good enough approximation?

Paolo

> If not, I guess that I'll have to wait for the DLMS that add arbitrary  
> precision floating point...  
>  
> cheers,  
> Noah

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