Subject: Re: IDL is not accurate enough!
Posted by noahh.schwartz on Thu, 11 Sep 2008 14:10:41 GMT
View Forum Message <> Reply to Message

```
On 28 août, 18:42, FÖLDY Lajos <fo...@rmki.kfki.hu> 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(Ingamma(x)-Ingamma(y))
> regards,
> lajos
```

Ingamma works fine for my propose! Would you know if an equivalent function exists for the beselk function? Something like Inbeselk? beselk(x) for x>709 doesn't seen to work. If not, I guess that I'll have to wait for the DLMs that add arbitrary precision floating point...

cheers, Noah