
Subject: Re: Airy function implementation?

Posted by [Lajos Foldy](#) on Thu, 31 Oct 2013 17:28:54 GMT

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On Wednesday, October 30, 2013 10:04:24 PM UTC+1, Rob Dimeo wrote:

> Hi,

>

> Before I do this myself, does anyone have an implementation of the Airy function in IDL? (Yes, I am aware that the additional advanced math & stats module has the IMSL implementation of it but I don't have that).

>

> Thanks,

> Rob

You don't have IMSL, but you do have GSL (in Linux 64 bit):

```
function ai, x
return, call_external('/usr/lib64/libgsl.so', 'gsl_sf_airy_Ai', double(x[0]), 1l, /all_value, /d_value,
/auto_glue)
end
```

```
pro test_ai ; Ai(x) in [-5,5]
x=dindgen(1001)/100-5
y=x
for j=0,1000 do y[j]=ai(x[j])
plot, y
end
```

Feel free to add error checking :-)

regards,
Lajos
