
Subject: Re: Bug on IDL 5.0 (VMS 6.2) with alog10()
Posted by [Gilles Ratel](#) on Sat, 21 Jun 1997 07:00:00 GMT
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Jack Saba <jsabaxxx@magus.stxqr.com> wrote in article
<33AA86A7.1A3D@magus.stxqr.com>...
> HSR Sys-Admin wrote:
>>
>> Hello,
>>
>> here is some dammed error, which costs us a day to find:
>>
>> VMS 6.2 IDL 5.0:
>>
>> print,alog10(0.0)
>>
>> hui! no error?
>>
>> and:
>>
>> print,alog10(0.0)*20
>>
>> what? a nice integer? but at least now with an error!
>>
>> under D-Unix the error did not occur!
>>
>> under 4.01 VMS it is the same as above!
>>
>> be aware of your math-routines and alog10!
>
> We don't have the final version up yet, but for IDL5 beta on HP-UX
> 10.10,
>
> IDL> print,alog10(0.0)
> ---.0000
> % Program caused arithmetic error: Floating overflow
>

Here, with idl v5.0 and openVMS 6.2-1H3
\$ idl
IDL Version 5.0 (vms alpha). Research Systems, Inc.

IDL> print,alog10(0.0)
-1.70141e+38
IDL> print,alog10(double(0.0))
-1.7014118e+38
% Program caused arithmetic error: Floating overflow

Also, if you have motif (DECWindows) look logical name DECW\$USER_DEFAULTS example:

```
$ DEFINE DECW$USER_DEFAULTS DISK:[path]
$ idl
IDL> id = WIDGET_BASE()
IDL> exit
$ SHOW LOGICAL DECW$USER_DEFAULTS
and logical name is : ".0."
exercice: define a button with font, and verify DECW$USER_DEFAULTS: and the
answer is?
```
