
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?
