
Subject: powell_f exceeding maximum iterations
Posted by [aetherlux](#) on Sat, 27 Jan 2007 18:32:08 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi everybody, I have a problem with the built in Powell function.
Systems: Debian GNU/Linux 3.1 and Ubuntu 6.06

I have several linked pro files. One of them uses the Powell function.
When running the main program I obtain this error:

```
#####  
.....; several previous outputs, all is right  
% Compiled module: REGRESS.  
WARNING:      2.24138 percent of points deleted...  
Removed      11989 bad pts.  
% Compiled module: IDENTITY.; all things are right until this line  
% Program caused arithmetic error: Floating illegal operand
```

....; if I use the argument ITMAX=1 in powell then I obtain 114
Floating illegal operand errors.

```
% Program caused arithmetic error: Floating illegal operand  
% POWELL: powell_f exceeding maximum iterations.  
% Execution halted at: COREST      136  
/path/corest_v2.0.pro  
%          IUK_MODEL      312  
/path/iuk_model_v2.2.pro  
%          $MAIN$      7  
/path/run_IUK.pro  
IDL>  
#####
```

The line 136 in COREST: powell, xs, xi, .00001, err, 'struct_s'

```
#####
```

I have tried using other values for ITMAX (10000 for example) but I
only obtain more arithmetic errors. I have used the /DOUBLE argument,
but it doesn't solve the problem. As Powell is a built in function
after the version 4.0 in IDL and I work with a very large amount of
data, it is difficult to find the source of the problem.
Any idea or advice?. I would thank any suggestion.
