

---

Subject: Re: print, long(1.0e10)  
Posted by [luthi](#) on Mon, 09 Aug 1999 07:00:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hold on

> I got different results from the following example on SGI IRIX and PC  
> Linux:  
> a = 1.0e10  
> b = long(a)  
> print, b ; 2147483647 for IRIX, -2147483648 for Linux

The same commands evaluated with PV-Wave (6.21, Solaris 2.6) gives

```
% Program caused arithmetic error: Floating divide by 0
% Program caused arithmetic error: Floating underflow
% Program caused arithmetic error: Floating illegal operand
% Detected at $MAIN$ (LONG).
print,b
1343554297
```

While I don't understand the "divide by 0" error at least there is some error message. Is this due to the wonderful world of IEEE numerics?

M. Luethi

--

```
=====
Martin Luethi Tel. +41 1 632 40 92
Glaciology Section Fax. +41 1 632 11 92
VAW ETH Zuerich
CH-8092 Zuerich mail luthi@vaw.baum.ethz.ch
Switzerland
=====
```