Subject: Re: Yet another bug?? Posted by Imudge on Fri, 19 May 1995 07:00:00 GMT

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In article 95May17132737@peace.med.ohio-state.edu, phil@peace.med.ohio-state.edu (Phil) writes:

- > Sorry to keep posting but I've just started developing some useful
- > tools in IDL and it seems I run across a new 'bug' every day. Could
- > someone tell me the sense behind the following:

```
>
> IDL> print, not 0
> IDL> print, not 1
   -2
> Shouldn't (not 0) = 1 and (not 1) = 0 or am i just missing something?
> Is there somehting in the manuals that describes this logic?
> Just wondering.
>
>
 Phil Williams
 Postdoctoral Researcher
                                    "One man gathers what
 MRI Facility
                                 another man spills..."
                                        -The Grateful Dead
> The Ohio State University
> email: phil@peace.med.ohio-state.edu
  URL: http://justice.med.ohio-state.edu:1525
```

One must thing in binary terms to understand what is happening here. Integer variables in IDL uses twos complement binary arithmetic thus the binary representation of 0 is 00000000000001. When we perform a not on this we get 111111111111110 which is the twos complement representation for -1. Try doing this:

```
not float(1)
and
not float(2)
and see what you get.
Regards,
```

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