Subject: Re: - unsigned variables Posted by JD Smith on Fri, 24 Sep 2004 00:53:18 GMT View Forum Message <> Reply to Message

On Thu, 23 Sep 2004 15:56:16 -0700, Holger Fleckenstein wrote:

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> A strange behavior in IDL occured to me.
>
> In C++ if I do:
   unsigned short x=1;
   printf("%d",-x);
> I get
   -1
>
> like I would expect.
> In IDL however:
   x=1U
   print, -x
> gives
   65535
> So it basically treats it like I had done:
   print, uint(-1)
> Does anybody have an explanation for this? Is this, because of a typecast
> before executing the print? (Can creat bugs, which are hard to localize.)
Nope, it's because your print format is treating it as a signed long
integer. Try:
unsigned short x=1;
printf("%hu",-x);
which gives:
65535
The difference is, IDL *knows* your integer is an unsigned short. C
doesn't know or care, and so is happy to print it however you like.
You can always change IDL's mind by explicitly casting it:
IDL > print, fix(-1U)
   -1
Note that short -1 and 65535 are actually represented by the exact
same bit pattern, namely:
```

11111111111111111

Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive