
Subject: random integers between 0 and 1,000,000
Posted by [mxd1007](#) on Sun, 23 Oct 2005 02:29:31 GMT
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Hello,
I'm trying to generate 30 random integer numbers between 0 and 1,000,000 but I keep getting negative values. This is my IDL statements:

```
FOR i = 0, 29 DO BEGIN
```

```
weights[i] = ULONG(1000000 * RANDOMU( seed, 1 ))
```

```
ENDFOR
```

the result when I print out the array weights:

```
17925 28066 15706 -4558 7450 9892 5340 -1674 -29667
-15997
-27046 -27854 -24859 29529 -31310 -7807 21139 8014 -14189
-24471
-16476 -6624 -23456 3042 30319 -20737 10945 -19432 3206
-11725
```

I would think if you cast ULONG onto the calculation, you would get positive values.
thanks in advance.

-Mike

Subject: Re: random integers between 0 and 1,000,000
Posted by [Norbert Hahn](#) on Tue, 25 Oct 2005 09:17:47 GMT
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"James Kuyper" <kuyper@wizard.net> wrote:

> Norbert Hahn wrote:

>> "James Kuyper" <kuyper@wizard.net> wrote:

>>

>>> takes a 32 bit unsigned long with a value somewhere in the range from 0
>>> to 1000000, and converts it into a 16 bit signed int, with a range from
>>> -32768 to 32767.

>>

>> I took a closer look on what might have gone on. I ran the following

```
>> program:
>>
>> z = randomu(seed,30)
>> a = long (z*1000000) & print, a
>> b = ulong (z*1000000) & print, b
>> i = fix(a)
>> print, a
>>
>> I found that a(1) was negative (-20848). So I printed
```

Sorry for the typo! The line should read
"I found that i(1) was negative (-20848). So I printed"
-----|

The hex numbers given in my example were correct with leading zeroes
omitted.

Norbert
