
Subject: Re: IDL mathematics

Posted by [velt](#) on Wed, 31 Aug 1994 20:07:10 GMT

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>
> How come the following expression gives the wrong answer.
>
> J = 201+((1461*(1994+4799))/4)-(3*((1994+4899)/100)/4)-2465022
>
> J = -2457713
>
> It should be:
>
> J = 201+((1461.*(1994+4799.))/4.)-(3.*((1994+4899.)/100.)/4.)-24 65022.
>
> J = 16270.5
>
>
> Kelly Dean

Most of your calculations are done in 2-byte integer, upto the last subtraction. The intermediate results are overflowing, so you get the wrong answer. Throw in a few longs at strategic places:

```
J = 201+((1461*(1994L+4799))/4)-(3*((1994L+4899)/100)/4)-2465022 print,J  
--> 16271
```

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