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Subject: Hex constants interpreted differently in IDL/v5.2  
Posted by [thompson](#) on Mon, 24 May 1999 07:00:00 GMT  
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A colleague of mine (Craig DeForrest) pointed this out to me, and I thought it important enough to distribute more widely. Has anybody else run into this one?

Apparently, IDL/v5.2 interprets some hexadecimal constants differently than previous versions. For example, the statement

```
IDL> help,'aa7f'x
```

under IDL/v5.1 produces the result

```
<Expression>  LONG    =    43647
```

while under IDL/v5.2, the following is returned

```
<Expression>  INT     = -21889
```

This change in behavior needs to be accommodated in any software which uses hexadecimal constants.

To be affected, the hexadecimal constant needs to be exactly four bytes long, with the first byte being in the range "8" to "f". Shorter or longer hexadecimal constants are unaffected. Thus, constants like

```
'abc'x  
'12345'x  
'789a'x
```

are all okay, while constants like

```
'8000'x  
'9abc'x  
'aa7f'x
```

would have a different meaning under IDL/v5.2. The simplest solution is to replace the "x" with "xl" to force the constant to be a long integer, e.g.

```
'8000'xl  
'9abc'xl  
'aa7f'xl
```

William Thompson

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