
Subject: WRONG RESULTS WITH IDL

Posted by [loewenthal](#) on Tue, 05 May 1998 07:00:00 GMT

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Hi Folks

For calculation of beam-propagation I use IDL. But now I realize that for large arguments, even with double-precision, IDL gives wrong results:

For example:

$\sin(12345678901.12345678901) = -03727\ 9004\ 9960\ 8007$

where IDL get:

```
IDL> x = double(12345678901.12345678901)
```

```
IDL> print, sin(x)
```

```
0.098761418
```

Can somebody confirm this result, and does anybody know the solution to overcome this problem?

Best regards

Frank
