
Subject: Passing C enum arguments in CALL_EXTERNAL?

Posted by [Matt Francis](#) on Fri, 15 Feb 2013 03:35:01 GMT

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I have another CALL_EXTERNAL question. I am trying to call cblas_dgemm (see docs here http://www.prism.gatech.edu/~ndantam3/cblas-doc/doc/html/cblas_8h.html#cbc643095eb54edbffb0c5e9080a2450) which requires, amongst other things, enum type arguments:

```
const enum CBLAS_ORDER Order, const enum CBLAS_TRANSPOSE TransA, const enum  
CBLAS_TRANSPOSE TransB
```

Now, my understanding is that enums are equivalent to INTs, which makes them equivalent to IDL LONGs. I've also checked the cblas.h code to find

```
enum CBLAS_ORDER {CblasRowMajor=101, CblasColMajor=102};  
enum CBLAS_TRANSPOSE {CblasNoTrans=111, CblasTrans=112, CblasConjTrans=113};
```

So this I thought told me the values to set an IDL INT to in order to successfully call the routine. I set

```
> CBLAS_ORDER = 102I
```

However, calling the routine gives an error and crashes the IDL session. The error is random, but here is an example:

Order must be 101 or 102, but is set to 31094592
Parameter 1 to routine cblas_dgemm was incorrect

The value '31094592' is different each time, which to me indicates the arguments are not correctly set. This is actually the first argument, so this shouldn't be caused by one of the others being set incorrectly. Does anyone know if there is anything tricky with C enum? Or possible with const arguments? (or anything else...).
