Subject: CALL_EXTERNAL
Posted by Thomas Gutzler on Wed, 05 Feb 2003 06:14:51 GMT
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Hi again,

please correct me if I'm wrong.

CALL_EXTERNAL
- needs the /CDECL keyword to call a dll built by Borland C++ Compiler
with: extern "C" __declspec(dllexport)
It works with and without /CDECL for me
- can have values and references (default) as arguments but cannot
RETURN a pointer. Just a scalar variable with the value of an address
- cannot have a NullPointer as argument and receive a Pointer to a
variable/array (see below)

What I'm trying to do is:

C function:
```
int test(int argc, void* argv[])
{
        if(argc != 2) return 0;
        IDL_UINT *size = (IDL_UINT *) argv[0];
        int *array = (int *) argv[1];
        array = new int[*size];
        for (int i = 0; i < *size; i++) array[i] = i;
        return 1;
}
```

IDL:
```
IDL> array = PTR_NEW()
IDL> Result = CALL_EXTERNAL('mydll.dll', '_test', 10, array, /CDECL)
IDL> print, array
```
should be
```
      0      1      2      3      4      5      6      7      8      9
```
but array is still a NullPointer

If I leave the line
```
        array = new int[*size];
```
I have to initialize with array=intarr(10) and the returned array is:
```
      0      0      1      0      2      0      3      0      4      0
```

This is not what I expected (funny values! maybe type-conversion helps?)
and not what I want. I want to receive a pointer to an array, because
IDL doesn't know the size of the array being returned (Yes, I could
allocate a 1000000x1 array and resize it).

Is this possible ?

Tom