
Subject: Re: what is the largest Array size please? ("out of memory" error)

Posted by [mirek](#) on Fri, 21 Mar 2008 23:49:21 GMT

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nixnix wrote on Wed, 19 March 2008 13:11

```
typedef WithDeepCopy<Array<double>> doubleArray;
```

There can be 2 issues involved...

First, `Array<double>` is not optimal - this will need about

$N * \max(16, \text{sizeof}(\text{double})) + N * \text{sizeof}(\text{void} *) * 1.33$

memory.

Try using `Vector<double>` instead. You might also try `SetCount` or `Shrink` to get that "1.33" down to 1.

Then, the memory, at least for `Vector` (or "`sizeof(void *)`") need to be continuous for single `Vector` (or `Vector<void *>` inside `Array`). On Win32, this might be a problem.

Anyway,

Quote:

array size appears to be a "mere" 617MB Smile"

well:

$13393 * 5951 * (16 + 1.33 * 4) = 1.7\text{GB}$

Which looks like some 2GB limitation

Mirek
