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

Posted by [nixnixnix](#) on Wed, 19 Mar 2008 17:11:11 GMT

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I am dealing with large amounts of data and was attempting to dimension an array of the form

```
typedef WithDeepCopy<Array <doubleArray> > d2Array;
```

where doubleArray is defined as

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

the d2Array enables me to have large fast grids of double precision floats and refer to it conveniently as

```
myArray[x][y]
```

Most of the time this works fine but when I tried to dimension a grid of doubles with

number of x = 13393

number of y = 5951

it falls over with "Out of memory" error. Now I would expect this to happen as the array size approaches 2GB but this array size appears to be a "mere" 617MB

I have 4GB (3.2GB usable) of memory on my PC and it wasn't anywhere near all used up. It fell over about 2/3 of the way through dimensioning.

Is this by design or a fault?

Nick