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

Posted by [mrjt](#) on Wed, 26 Mar 2008 13:04:59 GMT

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```
double Get(int nCol,int nRow){if(nRow>=0 && nCol>=0 && nRow<m_nRows &&
nCol<m_nCols)return m_ppData[nRow][nCol];}
void Set(int nCol,int nRow,double val){if(nRow>=0 && nCol>=0 && nRow<m_nRows &&
nCol<m_nCols)m_ppData[nRow][nCol]=val;}
```

If the array structure is [double*(columns)][double(rows)] then you have these backwards. If row count and column count are different Set will always write outside of the array on a copy op since you have this code:

```
    // copy values
    for(int i=0;i<grid.m_nCols;i++)
    {
//    memcpy(m_ppData[i], grid.GetCol(i), m_nRows * sizeof(double));

        for(int j=0;j<m_nRows;j++)
        {
            this->Set(i,j,grid.m_ppData[i][j]);
        }
    }
```

Additionally I believe the loop is redundant since you've just copied all the data with memcpy.

Edit: also I believe the delete calls in the constructor should be delete[]

James
