

Re: arrays, malloc

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.language/2004-03/0373.html>

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On Sat, 6 Mar 2004 20:59:34 +0100, "Kyle" <a@b.c> wrote:

>*what's the easy way of malloc'ing 2 dimensional array*

>

>*i mean i may always do*

>

>*#define GET(array,i,j,size) array[i+size*j]*

>

>*and use 1 dim array, but if it's (mallocing 2 dim) not too complicated i*

>*will be very happy <:*

>

The traditional method of allocating a 2D array of type T when the size of each dimension (number of rows and columns) is not known until run time is

```
T **array = malloc(rows * sizeof *array);
for (i = 0; i < rows; i++)
    array[i] = malloc(columns * sizeof *array[i]);
```

You can then refer to elements of the array as `array[j][k]` anywhere a variable of type T could be used.

Naturally, all malloc calls should be checked for success.

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