

Re: memory allocation problems

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.language/2005-06/msg00003.html>

- *From:* "Steve Long" <Steve_Noneya@xxxxxxxxxxx>
 - *Date:* Tue, 31 May 2005 15:17:39 -0700
-

Victor,

Thanks for your reply. Here's the entire body of the function. I don't seem to be able to get (nothrow) to work. I've include <new>:

```
void WriteMessage(FILE* fp, const char* msg)
{
time_t curr = time(0);
char* curtime = ctime((const time_t*) &curr);
char* buffer = new char[(strlen(curtime) + strlen(msg) + 3)];
strcpy(buffer, curtime);
strcat(buffer, msg);
strcat(buffer, "\n\n");
if (fp != NULL)
fwrite(buffer, 1, strlen(buffer), fp);
free(curtime);
delete[] buffer;
return;
}
```

"Victor Bazarov" <v.Abazarov@xxxxxxxxxxxxxxxx> wrote in message
news:%23%23%23TfRiZFHA.580@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

> Steve Long wrote:

>> this is probably most fundamental but I don't code in C++ often and I'm just

>> not getting why the code is crashing with a:

>> Unhandled exception at 0x77f75a58 in FileIOTest.exe: User breakpoint

>>

>> I have a function that calls this line of code:

>>

>> char* buffer = new char[sizeof(char) * (strlen(curtime) + strlen(msg) + 3)];

>

> OK, sizeof(char) is always 1, you can easily drop it. Now, what is

> 'curtime'? Is it something that can be passed to 'strlen'? What is

> 'msg'? Same question, can it be passed to 'strlen'? Remember that

> 'strlen' is very fragile, it has undefined behaviour if you pass NULL

> to it...

>

Re: memory allocation problems

>> The first time I call the function, all is well but subsequent times it
>> crashes with the above exception. All I'm doing is a strcpy, strcat and
>> writing to a file in the function and then I delete buffer memory using
>> delete.
>>
>> What could the problem be. Sorry is this is just really stupid...
>
> Could be that you're just running out of memory... Try
>
> char* buffer = new (nothrow) char[strlen(curtime)
> + strlen(msg) + 3];
>
> and see if NULL is returned.
>
> V

• *Follow-Ups:*

- ◆ [**Re: memory allocation problems**](#)
 ◇ *From:* Alexander Grigoriev
- ◆ [**Re: memory allocation problems**](#)
 ◇ *From:* Simon Trew
- ◆ [**Re: memory allocation problems**](#)
 ◇ *From:* Emil Kvarnhammar

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