
Subject: Re: Heap-leaks and polymorphic containers
Posted by [mirek](#) on Mon, 12 May 2008 17:05:28 GMT
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mrjt wrote on Mon, 12 May 2008 11:41 It is my understanding that the following code should execute without any memory leaks:

```
struct Item {  
    String name;  
};
```

```
struct Collection : public Item  
{  
    Array<Item> items;  
};
```

```
GUI_APP_MAIN  
{  
    // Example 1  
    Array<Item> array;  
    array.Create<Collection>().items.Add();
```

```
    // Example 2  
    Collection *col = new Collection();  
    col->items.Add();  
    Item *item = (Item *)col;  
    delete item;  
}
```

But for some reason the destructor for 'items' isn't getting called. Adding a virtual destructor to force clearance just causes a crash in MemoryFreeDebug.

Is something broken or am I just missing something obvious?

Well, virtual destructor is absolutely required here.

The crash in MemoryFreeDebug... well, who knows, I would say it has another reason.

Mirek
