Subject: Re: Memory leak in STRMID
Posted by chris_torrence@NOSPAM on Wed, 14 Oct 2015 17:27:53 GMT
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On Wednesday, October 14, 2015 at 10:15:34 AM UTC-6, Chris Torrence wrote:
> On Wednesday, October 14, 2015 at 5:33:18 AM UTC-6, superchromix wrote:
>> I can confirm that the same behaviour occurs in IDL 8.5.
>>
>> nice catch
>>
>> Mark
>
> Hmmm, well, here's the comment I found in the strmid function:
>
> * NOTE: This routine does not re-allocate memory to hold the
> * shortened string in order to avoid unneccessary fragmentation
> * of virtual memory. It simply uses the existing string memory
> * (moving the trailing null character up) unless the resulting string is
> * null (in which case it is freed).
>
> So, bug? Feature? Undesirable side effect?
>
> -Chris

Okay, I fixed this.

Just FYI, this wasn't a "leak" - IDL was still keeping track of the memory, and doing a .reset would free up the memory.

STRMID now creates new strings of the correct length, regardless of whether the input strings are temporaries or not. This may lead to some memory fragmentation, but that's probably better than wasting a bunch of memory.

Thanks for reporting it!

-Chris