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Subject: [FIXED] String::Replace(empty string,) => Out of memory!

Posted by [omari](#) on Fri, 02 May 2014 14:16:47 GMT

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Hi,

a call to String::Replace(f, r) crash if f.GetCount is equal to 0, with message:

Out of memory!

Request size : 905969755 B

U++ allocated memory: 442520 KB

I found that is because Replace use t\_find (StringFind.hpp line 30):

```
template <int step> // Template parameter to be a constant
int t_find(const char *ptr, int slen, const char *p, int len, int from)
```

and t\_find returns 0 if slen is equal to 0.

```
else
if(len == 1) {
    char p0 = p[0];
    while(s <= e) {
        if(*s == p0)
            return (int)(s - ptr);
        s += step;
    }
}
else
    return 0; <---- (line 87)
```

if t\_find return -1 instead of 0, it resolve the issu.

Regards

omari.

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Subject: Re: [BUG] String::Replace(empty string,) => Out of memory!

Posted by [mirek](#) on Fri, 02 May 2014 16:27:18 GMT

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Well, this is an interesting issue. While obviously it should not crash, I somehow doubt that returning -1 is correct here.

More specifically, I believe that

```
String h("xxx");  
h.Find("");
```

should return 0, because there IS empty substring at position 0 after all. In any case, such behaviour is consistent with e.g. STL (and I suspect all other libraries).

```
CONSOLE_APP_MAIN {  
    std::string s = "xxxxxx";  
    DDUMP(s.find(""));  
}
```

Means, specifying empty string as string to be replaced is sort of illegal. Anyway, I have added a check to Replace. Thanks for pointing that out...

Mirek

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Subject: Re: [BUG] String::Replace(empty string,) => Out of memory!

Posted by [omari](#) on Fri, 02 May 2014 17:03:01 GMT

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thanks Mirek, problem solved.

i am agree any string has the empty substring, but how many times?

- 1 at position 0
- or 1 at position 0 and 1 at the end
- or infinity?

if there is more than one, i think t\_find can returns (from).

what do you think?

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Subject: Re: [BUG] String::Replace(empty string,) => Out of memory!

Posted by [mirek](#) on Sat, 03 May 2014 13:52:19 GMT

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omari wrote on Fri, 02 May 2014 19:03 thanks Mirek, problem solved.

i am agree any string has the empty substring, but how many times?

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- 1 at position 0
- or 1 at position 0 and 1 at the end
- or infinity?

if there is more than one, i think `t_find` can returns (from).

what do you think?

Right! Sorry, somehow I forgot to account for "from".

Mirek

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