
Subject: String::Make - new way how to create a small string fast

Posted by [mirek](#) on Sat, 18 Sep 2021 15:31:11 GMT

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While optimizing conversion routines, I have found a relative bottleneck when converting small char buffers to String. To solve that, there is now a new static method

```
template <class Maker> static String Make(int alloc, Maker m)
```

Optimized static method for creating Strings. This method creates internal buffer of at least alloc and then invokes lambda m passing the char * pointer to the internal buffer as lambda parameter. Lambda is then supposed to fill the characters to this buffer and return the length of string (which must be <= alloc). For the best performance, alloc should be constant.

Example:

```
String x = String::Make(12, [](char *t) { *t++ = 'X'; return 1; });
```
