Subject: memcpy() and memmove() optimization
Posted by Tom1 on Tue, 28 Apr 2020 13:05:01 GMT
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Hi Mirek,

This is just a reminder here to look at after releasing 2020.1..

But: Can we use this? There's no licensing information as far as I can see.

https://github.com/rukkal/apex-memmove

At least it is faster than anything else I've seen so far and compiles well on both CLANGx64 and MSBT19x64 on Windows.

MSBT19x64 on Core i7:

TIMING apex_memcpy : 3.55 s - 3.55 ms ( 3.55 s / 1000 ), min: 3.28 ms, max: 7.80 ms, nesting: 0 - 1000
TIMING std::copy_n : 4.46 s - 4.46 ms ( 4.46 s / 1000 ), min: 4.20 ms, max: 8.06 ms, nesting: 0 - 1000
TIMING memcpy : 4.37 s - 4.37 ms ( 4.37 s / 1000 ), min: 4.08 ms, max: 7.98 ms, nesting: 0 - 1000

CLANGx64 on Core i7:

TIMING apex_memcpy : 3.54 s - 3.54 ms ( 3.54 s / 1000 ), min: 3.23 ms, max: 7.85 ms, nesting: 0 - 1000
TIMING std::copy_n : 4.45 s - 4.45 ms ( 4.45 s / 1000 ), min: 4.19 ms, max: 8.40 ms, nesting: 0 - 1000
TIMING memcpy : 4.33 s - 4.33 ms ( 4.33 s / 1000 ), min: 4.05 ms, max: 8.07 ms, nesting: 0 - 1000

Best regards,

Tom