Subject: Re: BufferPainter::Clear() optimization
Posted by Tom1 on Mon, 18 May 2020 18:57:20 GMT

Hi,

My CPU here is Intel(R) Core(TM) i7-4790K:

 https://ark.intel.com/content/www/us/en/ark/products/80807/i
ntel-core-i7-4790k-processor-8m-cache-up-to-4-40-ghz.html

Not surprisingly, they say it has an 8M 'smart cache'.

Please find attached two CSV files portraying execution time in ns for each call in average. The
length is in dwords. Fill3a is there for reference and Fill3T is using 64 dword threshold for
streaming in one and 2M dword (8MB) threshold in the other file. While not portrayed here,
increasing the threshold above 32MB decreases the performance from 1.5 ms to 3.6 ms for a 32
MB buffer.

Best regards,

Tom

File Attachments
1) Fill3T-cache-comparison.7z, downloaded 255 times