

Legend:**Aligned** – both source and destination buffers are aligned**DstUnalig** – destination buffer is not aligned, source is aligned**SrcUnalig** – source buffer is not aligned, destination is aligned**Unaligned** – both source and destination are not aligned, and, what's more, they have different offset**Mask/NoMask** – shows whether the mask buffer is used**{Src,Dst}Rand** – alpha channel of the pixels is initialized with random values**{Src,Dst}Zero** – alpha channel of the pixels is initialized with 0 values**{Src,Dst}Unit** – alpha channel of the pixels is initialized with 255 values

<b>ALPHA_DARKEN</b>		Legacy, ms	Vector, ms	Speed Gain, old/new
Aligned	Mask SrcRand DstRand	41	28	1.46
DstUnalig	Mask SrcRand DstRand	41	31	1.32
SrcUnalig	Mask SrcRand DstRand	41	33	1.24
Unaligned	Mask SrcRand DstRand	42	33	1.27
Aligned	NoMask SrcRand DstRand	35	21	1.67
Aligned	NoMask SrcZero DstRand	36	8	4.50
Aligned	NoMask SrcUnit DstRand	37	15	2.47
Aligned	NoMask SrcRand DstZero	22	15	1.47
Aligned	NoMask SrcZero DstZero	23	9	2.56
Aligned	NoMask SrcUnit DstZero	23	15	1.53
Aligned	NoMask SrcRand DstUnit	32	21	1.52
Aligned	NoMask SrcZero DstUnit	32	9	3.56
Aligned	NoMask SrcUnit DstUnit	32	10	3.20

<b>OVER</b>		Legacy, ms	Vector, ms	Speed Gain, old/new
Aligned	Mask SrcRand DstRand	49	20	2.45
DstUnalig	Mask SrcRand DstRand	48	24	2.00
SrcUnalig	Mask SrcRand DstRand	48	30	1.60
Unaligned	Mask SrcRand DstRand	48	29	1.66
Aligned	NoMask SrcRand DstRand	42	19	2.21
Aligned	NoMask SrcZero DstRand	6	4	1.50
Aligned	NoMask SrcUnit DstRand	27	18	1.50
Aligned	NoMask SrcRand DstZero	26	9	2.89
Aligned	NoMask SrcZero DstZero	5	4	1.25
Aligned	NoMask SrcUnit DstZero	26	8	3.25
Aligned	NoMask SrcRand DstUnit	19	18	1.06
Aligned	NoMask SrcZero DstUnit	6	3	2.00
Aligned	NoMask SrcUnit DstUnit	8	9	0.89

**memcpy** of the same amount of data: 3ms