

Comparison

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

				Athlon X2		
				Old, ms	Vector, ms	Gain, old/new
ALPHA_DARKEN						
Aligned	Mask	SrcRand	DstRand	74	90	0.82
DstUnalig	Mask	SrcRand	DstRand	73	89	0.82
SrcUnalig	Mask	SrcRand	DstRand	73	93	0.78
Unaligned	Mask	SrcRand	DstRand	74	95	0.78
Aligned	NoMask	SrcRand	DstRand	67	87	0.77
Aligned	NoMask	SrcZero	DstRand	67	34	1.97
Aligned	NoMask	SrcUnit	DstRand	67	71	0.94
Aligned	NoMask	SrcRand	DstZero	39	69	0.57
Aligned	NoMask	SrcZero	DstZero	39	34	1.15
Aligned	NoMask	SrcUnit	DstZero	39	69	0.57
Aligned	NoMask	SrcRand	DstUnit	60	85	0.71
Aligned	NoMask	SrcZero	DstUnit	60	34	1.76
Aligned	NoMask	SrcUnit	DstUnit	60	38	1.58

			Intel Core 2 Duo-T7250		
			Old, ms	Vector, ms	Gain, old/new
90					
62					
1.45					
90					
64					
1.41					
90					
69					
1.30					
89					
71					
1.25					
71					
57					
1.25					
71					
20					
3.55					
71					
49					
1.45					
46					
48					
0.96					
46					
20					
2.30					
46					
48					
0.96					
63					
57					
1.11					
62					
20					
3.10					
63					
30					
2.10					

			Intel Core i5-430M		
			Old, ms	Vector, ms	Gain, old/new
71					
48					
1.48					
71					
53					
1.34					
71					
55					
1.29					
71					
55					
1.29					
58					
45					
1.29					
58					
17					
3.41					
58					
39					
1.49					
37					
36					
1.03					
36					
17					
2.12					
37					
36					
1.03					
51					
44					
1.16					
51					
17					
3.00					
54					
23					
2.35					

			Intel Core i5-3210M		
			Old, ms	Vector, ms	Gain, old/new
47					
33					
1.42					
46					
37					
1.24					
46					
41					
1.12					
47					
41					
1.15					
41					
26					
1.58					
42					
10					
4.20					
42					
18					
2.33					
24					
18					
1.33					
24					
9					
2.67					
23					
18					
1.28					
36					
25					
1.44					
37					
9					
4.11					
37					
11					
3.36					

			Intel Core i7-2600		
			Old, ms	Vector, ms	Gain, old/new
41					
28					
1.46					
41					
31					
1.32					
41					
33					
1.24					
42					
33					
1.27					
35					
21					
1.67					
36					
8					
4.50					
37					
15					
2.47					
22					
15					
1.47					
23					
9					
2.56					
23					
15					
1.53					
32					
21					
1.52					
32					
9					
3.56					
32					
10					
3.20					

				Old, ms	Vector, ms	Gain, old/new
OVER						
Aligned	Mask	SrcRand	DstRand	117	92	1.27
DstUnalig	Mask	SrcRand	DstRand	117	89	1.31
SrcUnalig	Mask	SrcRand	DstRand	117	94	1.24
Unaligned	Mask	SrcRand	DstRand	117	97	1.21
Aligned	NoMask	SrcRand	DstRand	112	87	1.29
Aligned	NoMask	SrcZero	DstRand	14	12	1.17
Aligned	NoMask	SrcUnit	DstRand	88	84	1.05
Aligned	NoMask	SrcRand	DstZero	88	38	2.32
Aligned	NoMask	SrcZero	DstZero	15	11	1.36
Aligned	NoMask	SrcUnit	DstZero	88	36	2.44
Aligned	NoMask	SrcRand	DstUnit	41	73	0.56
Aligned	NoMask	SrcZero	DstUnit	16	11	1.45
Aligned	NoMask	SrcUnit	DstUnit	23	36	0.64

			Old, ms	Vector, ms	Gain, old/new
128					
58					
2.21					
127					
59					
2.15					
128					
64					
2.00					
129					
67					
1.93					
113					
55					
2.05					
11					
8					
1.38					
45					
56					
0.80					
46					
31					
1.48					
10					
8					
1.25					
45					
32					
1.41					
39					
50					
0.78					
10					
9					
1.11					
23					
32					
0.72					

			Old, ms	Vector, ms	Gain, old/new
86					
46					
1.87					
87					
46					
1.89					
86					
49					
1.76					
86					
50					
1.72					
74					
40					
1.85					
11					
7					
1.57					
33					
41					
0.80					
34					
23					
1.48					
11					
7					
1.57					
34					
24					
1.42					
29					
44					
0.66					
11					
6					
1.83					
18					
22					
0.82					

			Old, ms	Vector, ms	Gain, old/new
56					
24					
2.33					
55					
27					
2.04					
56					
33					
1.70					
55					
34					
1.62					
48					
29					
1.66					
7					
4					
1.75					
34					
23					
1.48					
33					
11					
3.00					
7					
4					
1.75					
33					
11					
3.00					
22					
22					
1.00					
7					
4					
1.75					
11					
11					
1.00					

			Old, ms	Vector, ms	Gain, old/new
49					
20					
2.45					
48					
24					
2.00					
48					
30					
1.60					
48					
29					
1.66					
42					
19					
2.21					
6					
4					
1.50					
27					
18					
1.50					
26					
9					
2.89					
5					
4					
1.25					
26					
8					
3.25					
19					
18					
1.06					
6					
3					
2.00					
8					
9					
0.89					

Memcpy, ms: -
Avg: 1.17
Min: 0.56

Memcpy, ms: 11
Avg: 1.59
Min: 0.72

Memcpy, ms: -
Avg: 1.60
Min: 0.66

Memcpy, ms: 3
Avg: 1.97
Min: 1.00

Memcpy, ms: 3
Avg: 2.00
Min: 0.89