

Intel i7-4771, **3.5GHz**
Windows 7, 64-bit OS, on iMAC w/- 1TB Fusion Drive

Test Description	Application	KDU-S7.5			KDU-7.5	KDU-S7.5 Performance Advantage w.r.t. KDU-7.5
		FPS	Msamples /s	Mbit/ s	FPS	
2K Digital cinema decompress/render: content is 2048x857 , full XYZ, 24fps, encoded at max allowable bit-rate of 244Mbit/s = 5.8bits/pel ; 240 frames, rendered twice, using "-display" option.	kdu_vex_fast (2 engines, 4 threads each)	41.13	216.6	418	27.35	150%
2K Digital cinema decompress/render: content is 2048x857 , full XYZ, 48fps, encoded at max allowable bit-rate of 244Mbit/s = 2.9bits/pel ; 240 frames, rendered twice, using "-display" option.	kdu_vex_fast (2 engines, 4 threads each)	76.17	401.1	387	51.71	147%
4K Digital cinema decompress/render: content is 4096x1714 , full XYZ, 24fps, encoded at max allowable bit-rate of 244Mbit/s = 1.45bits/pel ; 240 frames, rendered twice, using "-display" option.	kdu_vex_fast (2 engines, 4 threads each)	37.16	782.7	378	25.3	147%
2K Digital cinema decompress/render: content is 2048x857 , full XYZ, 24fps, encoded at max allowable bit-rate of 244Mbit/s = 5.8bits/pel ; 240 frames, rendered twice, using "-in_memory".	kdu_v_expand (NB: all threads work together on each frame)	40.65	214.0	413	27.18	150%
2K Digital cinema decompress/render: content is 2048x857 , full XYZ, 48fps, encoded at max allowable bit-rate of 244Mbit/s = 2.9bits/pel ; 240 frames, rendered twice, using "-display" option.	kdu_v_expand (NB: all threads work together on each frame)	75.79	399.1	385	51.11	148%

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4K Digital cinema decompress/render: content is 4096x1714 , full XYZ, 24fps, encoded at max allowable bit-rate of 244Mbit/s = 1.45bits/pel ; 240 frames, rendered twice, using "-display" option.	kdu_v_expand (NB: all threads work together on each frame)	35.69	751.7	363	24.71	144%

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Big Image Compress, 2bpp: content is 13,333x13,333 , 24bit RGB; Cblk={64,64}, Clevels=9, ORGgen_plt=yes, Cprecincts={256,256}; 2 bits/pel	kdu_compress (with -rate 2)	0.489	261.0	174	0.334	147%
Big Image Decompress , 2bpp: content is 13,333x13,333 , 24bit RGB; Cblk={64,64}, Clevels=9, ORGgen_plt=yes, Cprecincts={256,256}; 2 bits/pel	kdu_expand (output file writing skipped)	1.087	579.7	386	0.754	144%
Big Image compress, Incr. flush , 2bpp: content is 13,333x13,333 , 24bit RGB; Cblk={64,64}, Clevels=7, ORGgen_plt=yes, Cprecincts={256,256},..., {4,128}, flush_period=1024; 2 bits/pel	kdu_compress (with -rate 2 and -flush_period)	0.548	292.2	195	0.371	148%
Big Image Compress, 2bpp: as above, but using "-slope"	kdu_compress (with -slope)	0.594	316.7	211	0.384	155%
Big Image Compress, Incr. flush , 2bpp: as above, but using "-slope"	kdu_compress (with -slope and	0.635	338.6	226	0.398	159%
Big Image Compress, 2bpp: as above, but using "Qstep"	kdu_compress (with Qstep)	0.844	450.0	300	0.617	137%
Big Image Compress, Incr. flush , 2bpp: as above, but using "Qstep"	kdu_compress (with Qstep and	0.929	495.6	330	0.654	142%

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Big Image Lossless Compress content is 13,333x13,333 , 24bit RGB; Cblk={64,64}, Clevels=9, ORGgen_plt=yes, Cprecincts={256,256}; Creversible=yes	kdu_compress	0.2116	112.8	371	0.1578781	134%
Big Image Lossless Decompress content is 13,333x13,333 , 24bit RGB; Cblk={64,64}, Clevels=9, ORGgen_plt=yes, Cprecincts={256,256}; Creversible=yes	kdu_expand (output file writing skipped)	0.266	141.9	466	0.176616	151%
Big Image Lossess Compress, Incr. flush: content is 13,333x13,333 , 24bit RGB; Cblk={64,64}, Clevels=7, ORGgen_plt=yes, Cprecincts={256,256},..., {4,128}, flush_period=1024; Creversible=yes	kdu_compress (with -flush_period)	0.234	124.8	410	0.1713796	137%

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4CIF Video Compression, 2bpp content is 704x576 (4:2:0 YCbCr), compressed to 2 bits/pixel	kdu_v_compress	323.1	196.5	262	205.68	157%
4CIF Video Decompression , 2bpp content is 704x576 (4:2:0 YCbCr), compressed to 2 bits/pixel	kdu_v_expand	480.8	292.4	390	315.91	152%
4CIF Video Compression, 2bpp as above, but using -slope	kdu_v_compress (with -slope)	356.3	216.7	289	226.23	157%
4CIF Video Compression, 2bpp as above, but using Qstep	kdu_v_compress (with Qstep)	442.1	268.9	359	293.52	151%

1080p Video Compression, 2bpp content is "Aspen": 1920x1080 (4:2:0 YCbCr), compressed to 2 bits/pixel	kdu_v_compress	69.93	217.51	290	44.24	158%
1080p Video Decompression , 2bpp content is "Aspen": 1920x1080 (4:2:0 YCbCr), compressed to 2 bits/pixel	kdu_v_expand	101.2	314.77	420	66.03	153%
1080p Video Compression, 2bpp as above, but using -slope	kdu_v_compress (with -slope)	78.48	244.10	325	49.62	158%
1080p Video Compression, 2bpp as above, but using Qstep	kdu_v_compress (with Qstep)	91.04	283.17	378	61.53	148%

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2160p Video Compression, 1bpp content is "ParkJoy": 3840x2160 (4:4:4 RGB), compressed to 1 bits/pixel	kdu_v_compress	20.93	520.81	174	13.29	157%
2160p Video Decompression , 1bpp content is "ParkJoy": 3840x2160 (4:4:4 RGB), compressed to 1 bits/pixel	kdu_v_expand	43	1069.98	357	30.35	142%
2160p Video Compression, 1bpp as above, but using -slope	kdu_v_compress (with -slope)	21.55	536.23	179	13.53	159%
2160p Video Compression, 1bpp as above, but using Qstep	kdu_v_compress (with Qstep)	35.13	874.15	291	24.77	142%

Average Performance Advantage of Speed-Pack version KDU-S7.5 [NB: this is just the average of all the speedup percentage values found above]	149%
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