

CDEF and LR subjective results

2017-08-16

Summary of results:

Scroll past the first page for complete test results.

Note that in all five test cases, **No filter** means that neither CDEF or Loop-Restoration was enabled. The deblocking loop filter is always enabled.

Both CDEF and Loop-Restoration are in their default configuration. The 2-pass CDEF implementation was used.

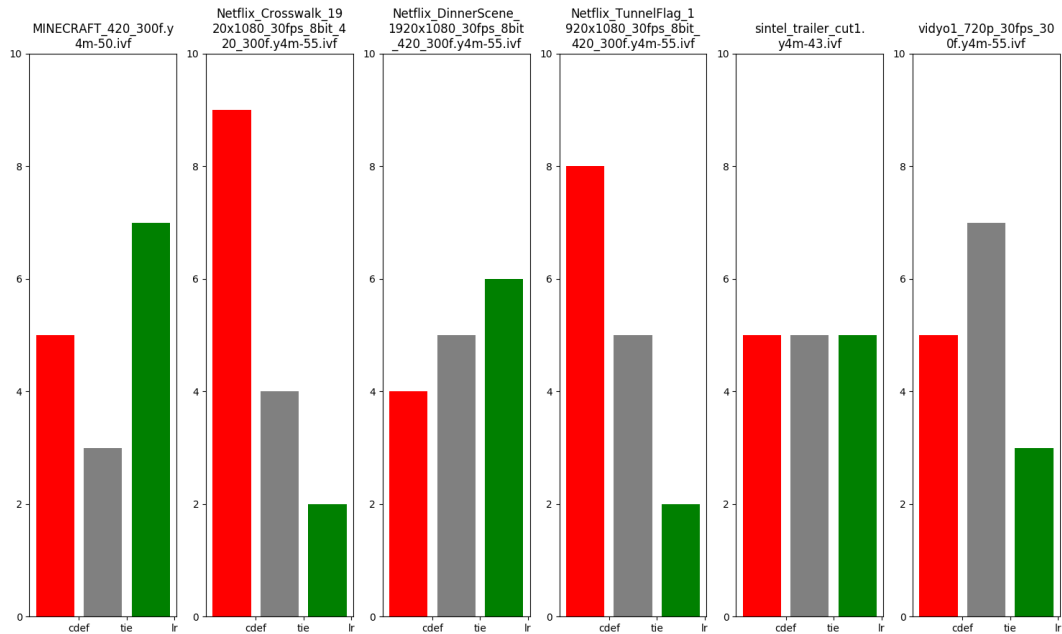
Of the five test cases, only the **CDEF vs no filter** had videos with p-value < 0.05 , both showing that the filter enabled was preferred over the filter disabled.

If ties are excluded from the p-value (labeled “p-val nt”), the result from **No filter vs CDEF+Loop-Restoration** and **Loop-Restoration vs No filter** additionally becomes significant.

Note at the time of this report that the **No filter vs CDEF+Loop-Restoration** only has 11 votes.

Raw Data

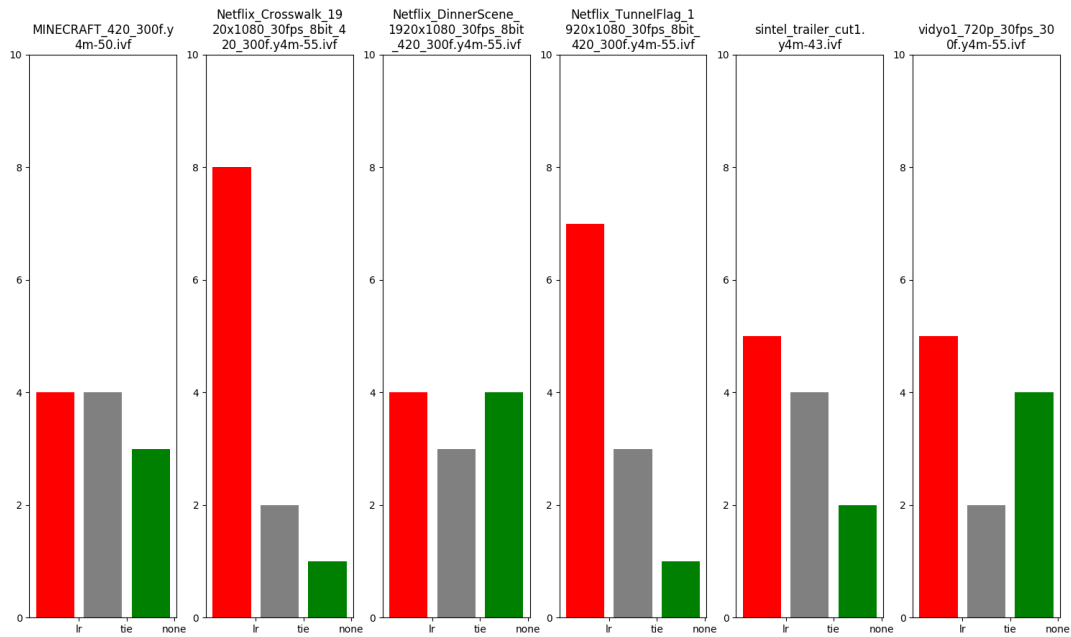
CDEF vs Loop-Restoration



["https://beta.arewecompressedyet.com/runs/slf3-base-hl-4/js/decoder.js", "https://beta.arewecompressedyet.com/runs/slf3-justlr-hl-2/js/decoder.js"]

Video	cdef	Tie	lr	Total	P-val	P-val nt
subjective-2/MINECRAFT_420_300f.y4m-50.i :	5	3	7	15	0.60724	0.77441
subjective-2/NetfliX_Crosswalk_1920x1080 :	9	4	2	15	0.11847	0.06543
subjective-2/NetfliX_DinnerScene_1920x10 :	4	5	6	15	0.60724	0.75391
subjective-2/NetfliX_TunnelFlag_1920x108 :	8	5	2	15	0.11847	0.10938
subjective-2/sintel_trailer_cut1.y4m-43. :	5	5	5	15	1.00000	1.00000
subjective-2/vidyo1_720p_30fps_300f.y4m- :	5	7	3	15	0.60724	0.72656
Total p value:	0.246106449716					
Total p value (nt):	0.200031368513					

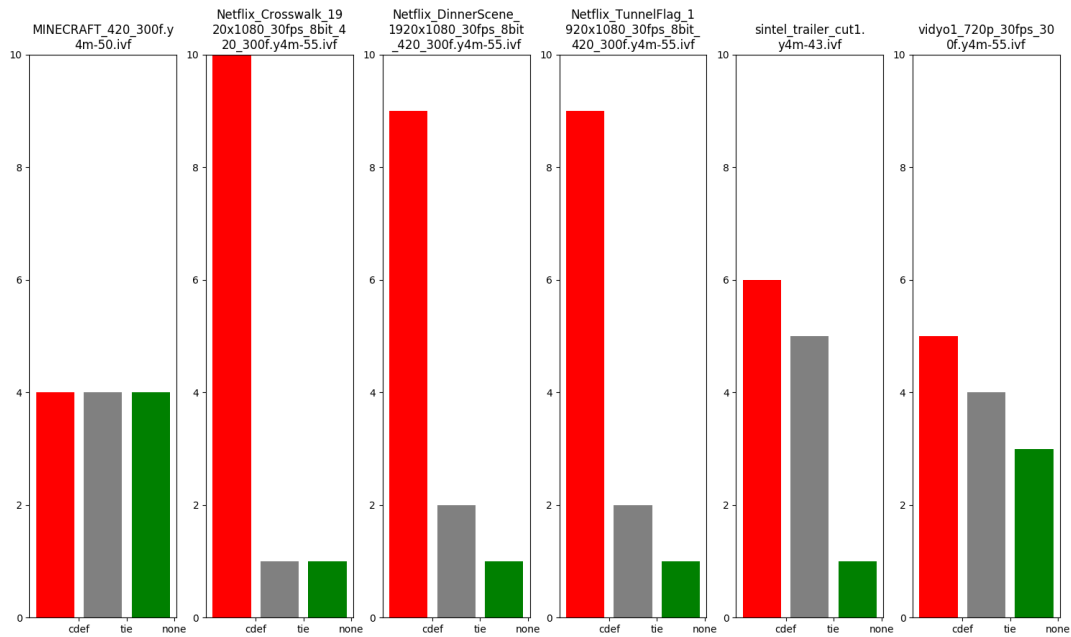
Loop-Restoration vs no filter



["https://beta.arewecompressedyet.com/runs/slf3-justlr-hl-2/js/decoder.js", "https://beta.arewecompressedyet.com/runs/slf3-nocdef-hl-1/js/decoder.js"]

Video	lr	Tie	none	Total	P-val	P-val nt
subjective-2/MINECRAFT_420_300f.y4m-50.i :	4	4	3	11	1.00000	1.00000
subjective-2/NetfliX_Crosswalk_1920x1080 :	8	2	1	11	0.06543	0.03906
subjective-2/NetfliX_DinnerScene_1920x10 :	4	3	4	11	1.00000	1.00000
subjective-2/NetfliX_TunnelFlag_1920x108 :	7	3	1	11	0.06543	0.07031
subjective-2/sintel_trailer_cut1.y4m-43. :	5	4	2	11	0.54883	0.45312
subjective-2/vidyo1_720p_30fps_300f.y4m- :	5	2	4	11	1.00000	1.00000
Total p value:	0.0355827244522					
Total p value (nt):	0.0132832815622					

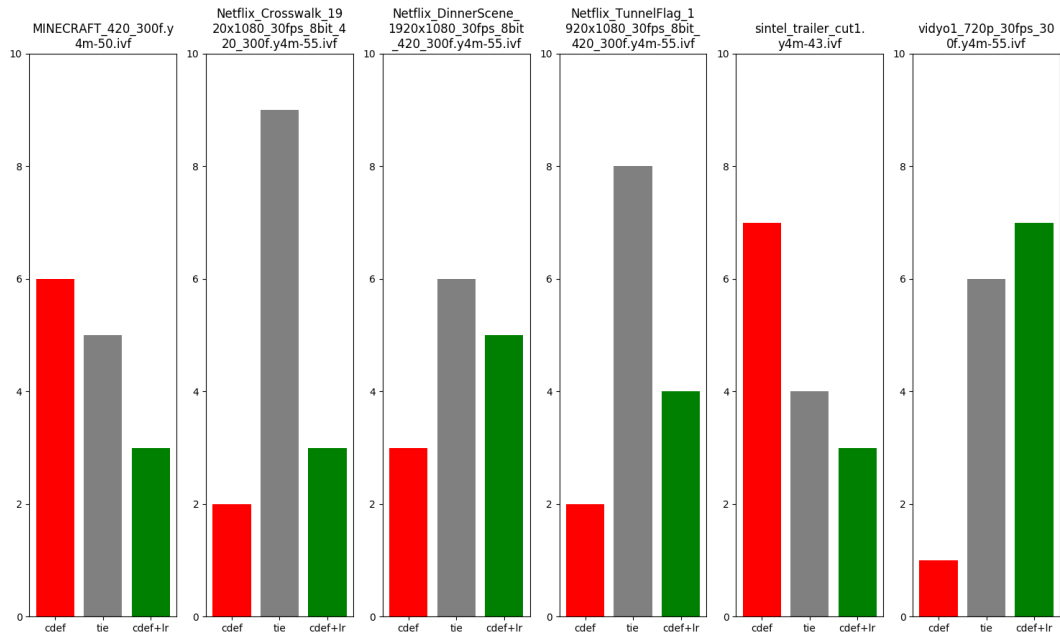
CDEF vs no filter



[<https://beta.arewecompressedyet.com/runs/slf3-base-h1-4/js/decoder.js>", <https://beta.arewecompressedyet.com/runs/slf3-nocdef-h1-1/js/decoder.js>]

Video	cdef	Tie	none	Total	P-val	P-val nt
subjective-2/MINECRAFT_420_300f.y4m-50.i :	4	4	4	12	1.00000	1.00000
subjective-2/NetfliX_Crosswalk_1920x1080 :	10	1	1	12	0.00635	0.01172
subjective-2/NetfliX_DinnerScene_1920x10 :	9	2	1	12	0.03857	0.02148
subjective-2/NetfliX_TunnelFlag_1920x108 :	9	2	1	12	0.03857	0.02148
subjective-2/sintel_trailer_cut1.y4m-43. :	6	5	1	12	0.14600	0.12500
subjective-2/vidyo1_720p_30fps_300f.y4m- :	5	4	3	12	0.77441	0.72656
Total p value:	0.000207716030227					
Total p value (nt):	1.40130574562e-05					

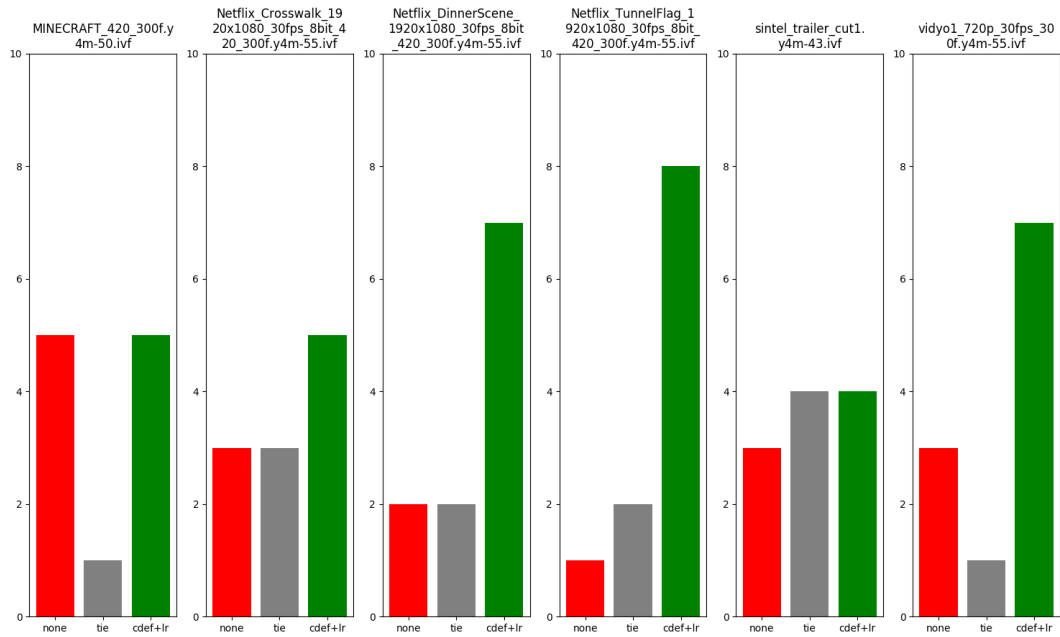
CDEF vs CDEF+Loop-Restoration



[<https://beta.arewecompressedyet.com/runs/slf3-base-h1-4/js/decoder.js>", <https://beta.arewecompressedyet.com/runs/slf3-pluslr-h1-1/js/decoder.js>"]

Video	cdef	Tie	cdef+lr	Total	P-val	P-val
nt						
subjective-2/MINECRAFT_420_300f.y4m-50.i :	6	5	3	14	0.42395	0.50781
subjective-2/NetfliX_Crosswalk_1920x1080 :	2	9	3	14	0.79053	1.00000
subjective-2/NetfliX_DinnerScene_1920x10 :	3	6	5	14	0.79053	0.72656
subjective-2/NetfliX_TunnelFlag_1920x108 :	2	8	4	14	0.79053	0.68750
subjective-2/sintel_trailer_cut1.y4m-43. :	7	4	3	14	0.42395	0.34375
subjective-2/vidyo1_720p_30fps_300f.y4m- :	1	6	7	14	0.17957	0.07031
Total p value:	0.743644186105					
Total p value (nt):	0.658738077024					

No filter vs CDEF+Loop-Restoration



["https://beta.arewecompressedyet.com/runs/slf3-nocdef-hl-1/js/decoder.js", "https://beta.arewecompressedyet.com/runs/slf3-pluslr-hl-1/js/decoder.js"]

	Video	none	Tie	cdef+lr	Total	P-val	P-val
nt							
subjective-2/MINECRAFT_420_300f.y4m-50.i :		5	1	5	11	1.00000	1.00000
subjective-2/NetfliX_Crosswalk_1920x1080 :		3	3	5	11	0.54883	0.72656
subjective-2/NetfliX_DinnerScene_1920x10 :		2	2	7	11	0.22656	0.17969
subjective-2/NetfliX_TunnelFlag_1920x108 :		1	2	8	11	0.06543	0.03906
subjective-2/sintel_trailer_cut1.y4m-43. :		3	4	4	11	1.00000	1.00000
subjective-2/vidyo1_720p_30fps_300f.y4m- :		3	1	7	11	0.22656	0.34375
Total p value:		0.018657260354					
Total p value (nt):		0.0126603358024					