

Company		Canopus		Honestech		
Encoder	bbMPEG	ProCoder	CinemaCraft SP	MPEG Encoder		
Version	1.24 beta 18	1.5	2.67.00.13	5.0		
Chart	bbMPEG	ProCoder	CCE SP	Honestech		
Quantization	CBR 2000	21.50	13.16		29.38	
		~VBR	bitrate 2500	VBV Error	bitrate 2500	
	CBR 4000	12.84	9.69		13.27	
		~VBR		VBV Error		
	CBR 6000	9.69	7.78	9.77	10.61	
	CBR 8000	8.02	6.80	8.17	9.01	
	VBR 2000	19.38	16.46	19.08	19.32	
			bitrate 2500		bitrate 2200	
	VBR 4000	12.09	9.51	11.73	14.6	
					bitrate 3500	
VBR 6000	9.65	7.17	8.72	11.32		
				bitrate 5400		
VBR 8000	8.51	6.44	7.04	9.56		
				bitrate 7000		
ice - Main	CBR 2000	500	15.79	7.56	12.22	16.07
		1400	12.16	4.88	6.96	13.10
		2550	13.72	1.20	1.47	13.93
		2950	21.87	4.67	7.81	27.04
		3100	31.61	27.15		31.75
		3800	11.20	6.19	8.06	11.75
	CBR 4000	500	14.87	5.77	8.86	13.35
		1400	9.92	3.94	4.91	9.25
		2550	13.96	1.20	1.48	13.66
		2950	19.15	2.55	2.71	14.52
		3100	31.07	20.88		30.98
		3800	9.83	4.95	5.48	9.07
	CBR 6000	500	12.36	4.34	7.43	11.67
		1400	9.19	3.05	3.94	8.65
		2550	13.69	1.20	1.48	13.66
		2950	16.73	1.10	4.38	14.03
		3100	30.69	18.95	20.21	28.36
		3800	8.88	4.10	4.41	8.53
	CBR 8000	500	11.27	3.52	6.45	10.52
		1400	8.75	2.53	3.30	8.27
		2550	13.69	1.20	1.48	13.66
		2950	14.56	0.77	2.09	13.81
		3100	28.26	17.09	16.73	25.38
		3800	8.51	3.57	3.81	8.27

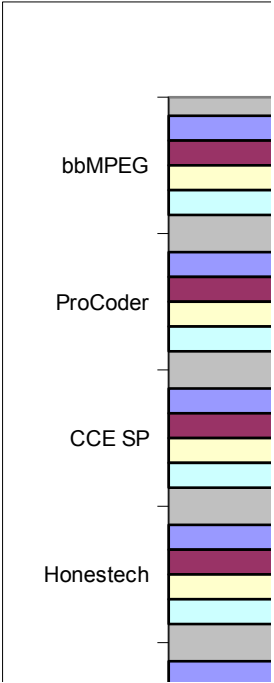
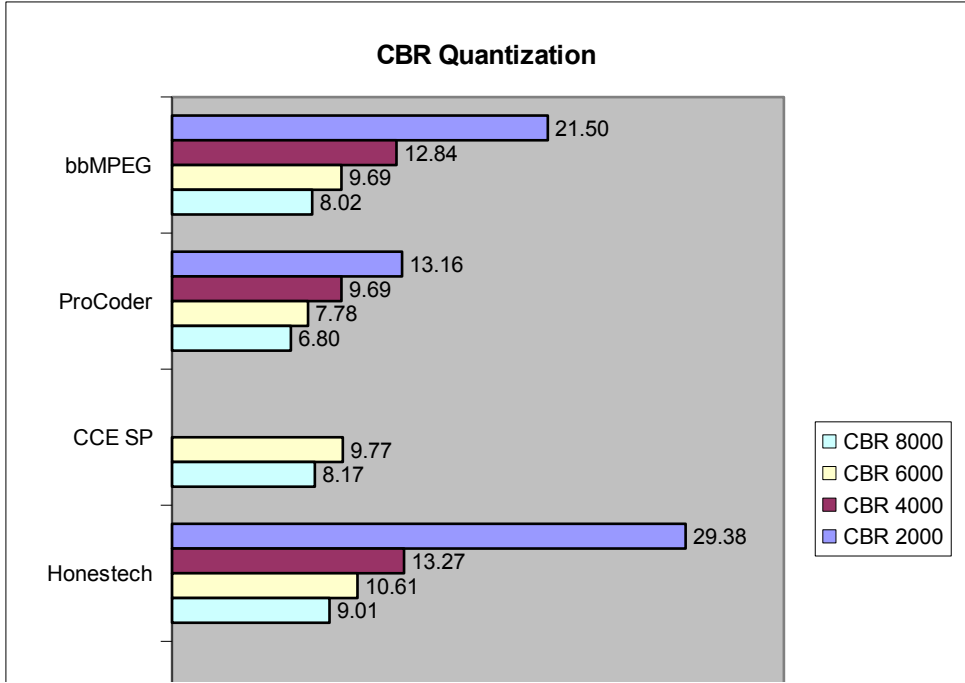
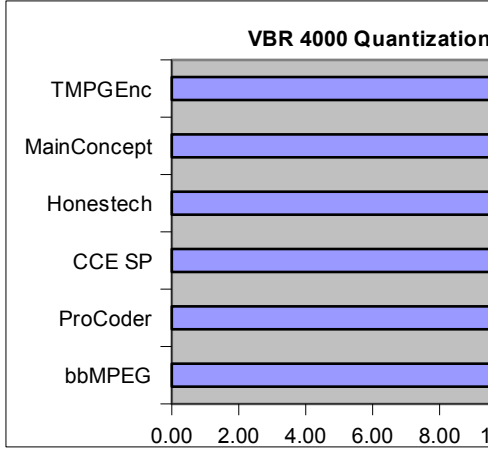
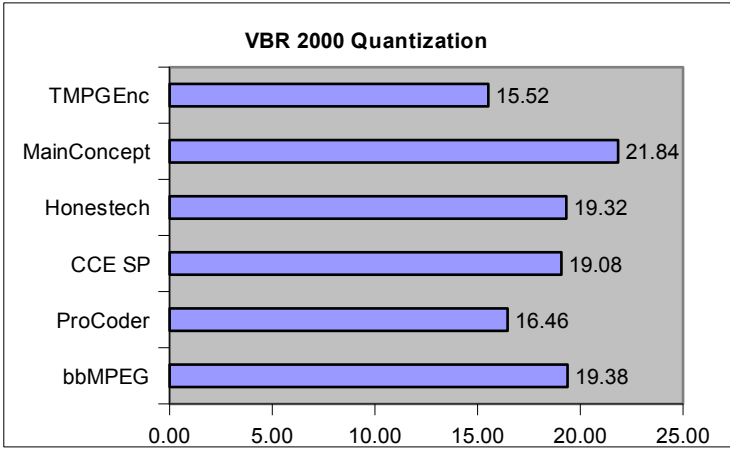
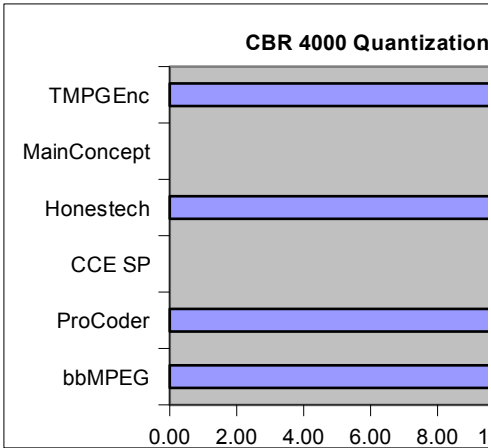
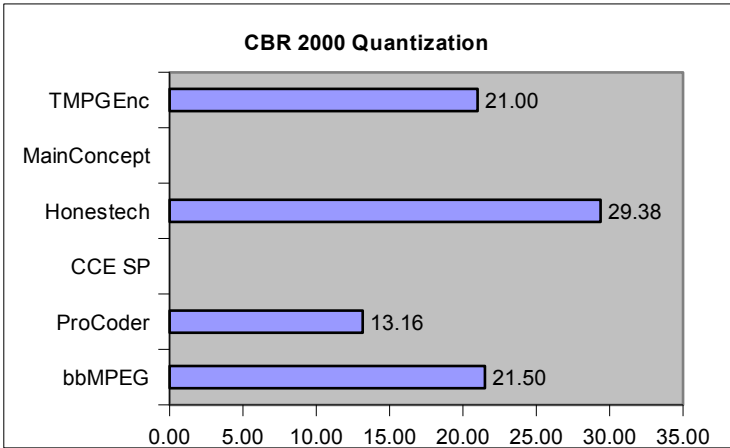
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		1400	11.29	5.41	7.56	11.05
		2550	13.69	2.06	1.67	13.67
		2950	14.87	6.70	8.31	16.08
		3100	31.83	19.23	21.50	31.75
		3800	11.70	5.75	7.50	9.89
	VBR 4000	500	10.32	4.75	7.50	12.22
		1400	9.45	4.08	4.99	9.06
		2550	13.69	1.27	1.47	13.67
		2950	14.83	2.63	3.54	14.93
		3100	29.05	18.31	18.07	29.85
		3800	8.74	4.52	5.21	8.46
	VBR 6000	500	9.46	3.22	5.87	10.23
		1400	8.60	3.04	3.70	8.24
		2550	13.69	1.20	1.48	13.67
		2950	14.83	0.80	2.54	14.89
		3100	24.41	16.17	15.10	24.24
		3800	8.22	3.40	4.14	8.15
	VBR 8000	500	9.15	3.00	5.59	9.23
		1400	8.19	2.17	2.92	7.81
		2550	13.69	1.20	1.48	13.67
		2950	14.83	0.48	0.82	14.68
		3100	23.82	14.76	14.14	23.11
		3800	8.13	3.25	3.41	7.94
CBR 2000	500	172	102	186	174	
	1400	150	68	103	156	
	2550	70	54	78	67	
	2950	140	38	58	132	
	3100	255	255		252	
	3800	116	91	121	129	
	CBR 4000	500	166	83	132	139
		1400	114	48	62	94
		2550	76	54	78	54
		2950	102	19	25	40
		3100	255	255		252
		3800	109	67	70	82
	CBR 6000	500	143	51	102	124
		1400	91	40	55	77
		2550	76	54	78	54
		2950	57	12	32	32
		3100	255	254	255	253
		3800	74	68	55	68
CBR 8000	500	134	40	71	107	
	1400	72	28	32	67	

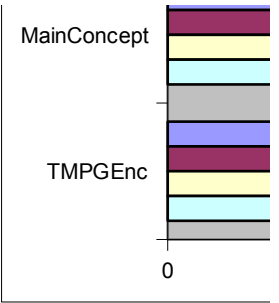
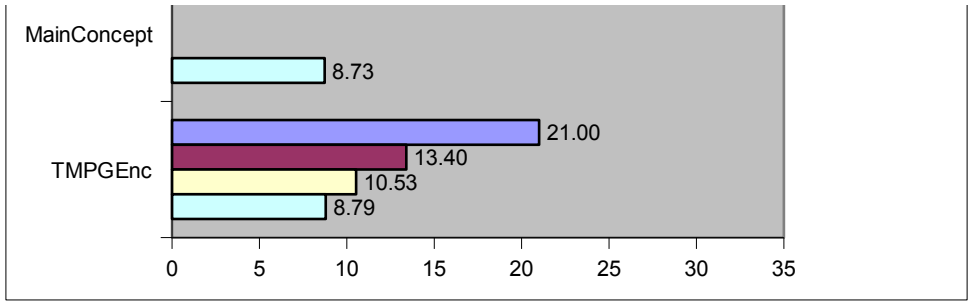
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		3100	239	253	229	204
		3800	67	54	38	58
	VBR 4000	500	133	81	156	174
		1400	114	90	123	118
		2550	75	78	80	52
		2950	30	47	62	41
		3100	255	255	255	252
		3800	132	85	114	86
	VBR 6000	500	81	60	102	104
		1400	80	54	76	72
		2550	75	60	78	52
		2950	28	20	24	31
		3100	242	255	255	254
		3800	67	64	61	58
	VBR 8000	500	74	38	67	78
		1400	64	40	44	51
		2550	75	54	78	52
		2950	28	7	21	30
		3100	196	253	210	187
		3800	52	47	42	54

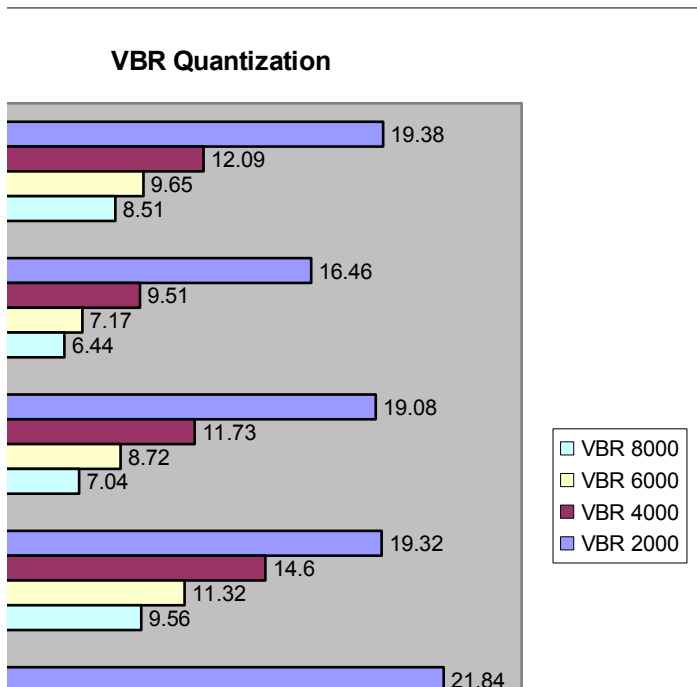
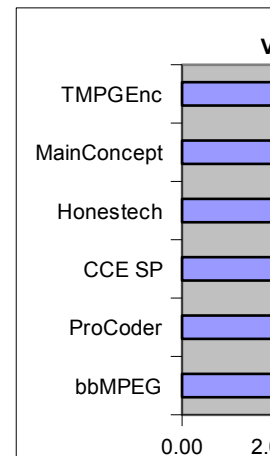
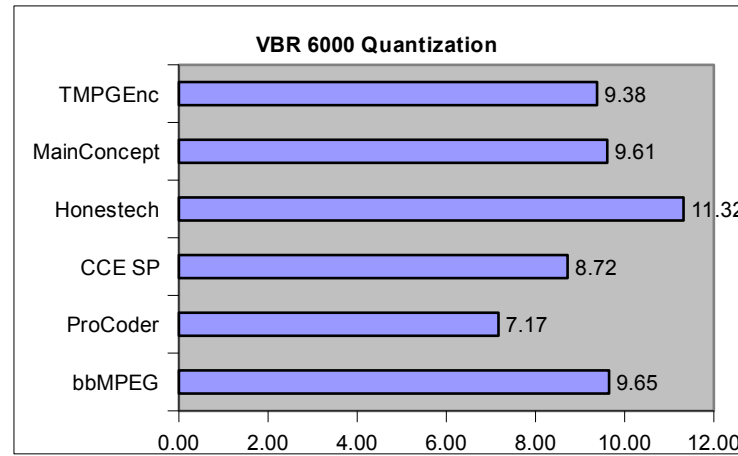
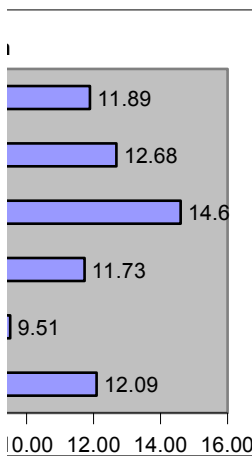
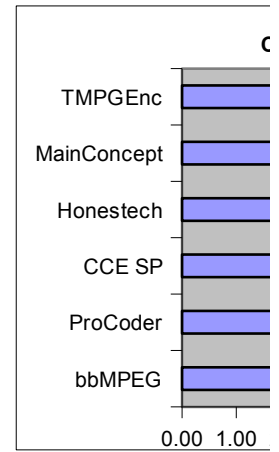
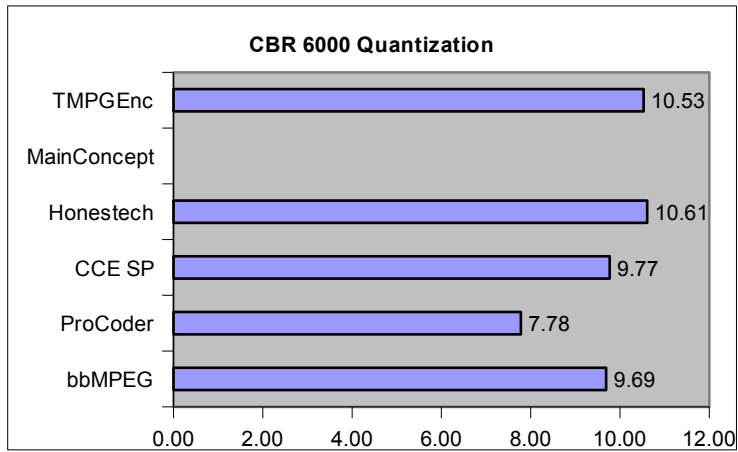
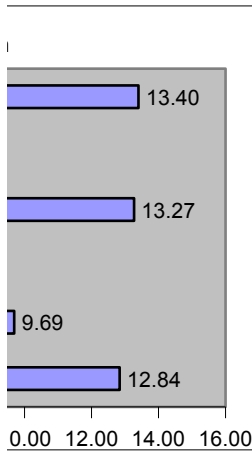
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1.4.1	2.521.58.169
MainConcept	TMPGEnc
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can't keep bitrate	
	13.40
can't keep bitrate	
	10.53
can't keep bitrate	
8.73	8.79
21.84	15.52
	bitrate 2600
12.68	11.89
9.61	9.38
8.32	9.09
10.01	10.32
6.22	6.10
1.23	2.00
8.25	9.33
	24.02
6.59	9.54
7.27	6.41
4.90	5.14
1.23	2.00
8.25	2.91
	20.49
4.72	3.60
6.17	4.83
4.10	4.61
1.23	2.00
8.25	1.22
	13.25
3.91	2.85
5.37	3.84
3.57	4.20
1.23	2.00
1.08	0.66
13.66	10.61
3.23	2.36

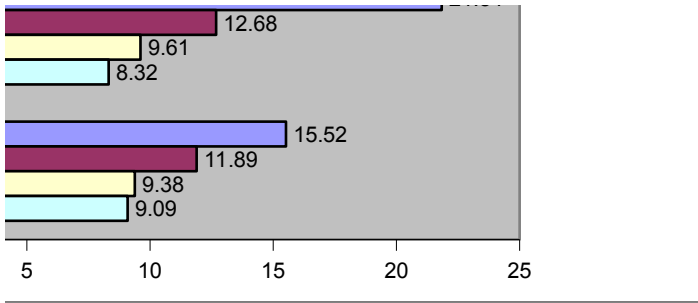
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1.08	5.90
18.86	15.01
7.81	5.55
7.94	6.59
5.73	4.83
1.23	2.00
1.08	1.80
16.74	11.88
5.79	4.06
6.12	4.30
4.69	4.30
1.23	2.00
1.08	1.19
14.01	10.54
4.16	2.42
4.92	3.91
4.01	4.25
1.23	2.00
1.08	1.02
14.37	10.55
3.07	2.42
150	124
106	117
55	54
116	88
	255
104	140
108	70
72	92
55	54
116	24
	255
60	44
85	45
52	83
55	54
116	10
	191
48	25
67	38
41	67

54	54
9	8
196	140
32	28
162	94
114	94
94	54
9	55
254	214
109	89
118	54
109	74
55	54
9	12
227	166
92	47
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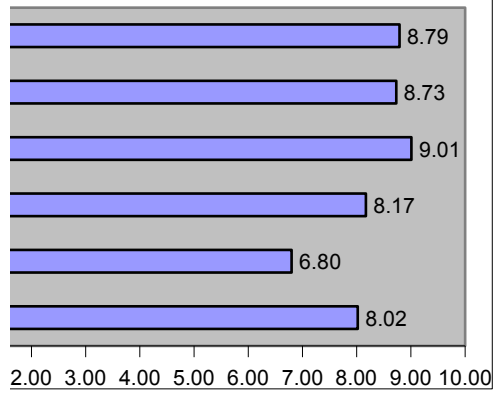




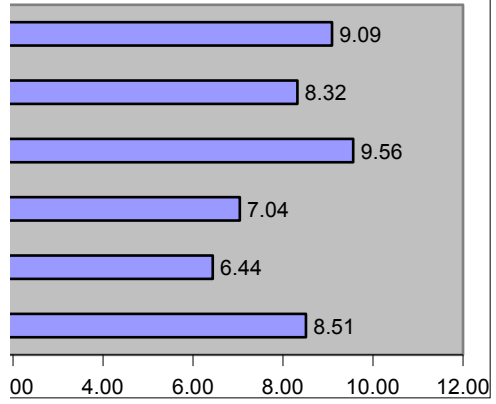


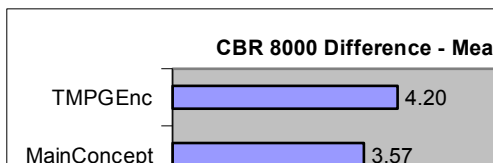
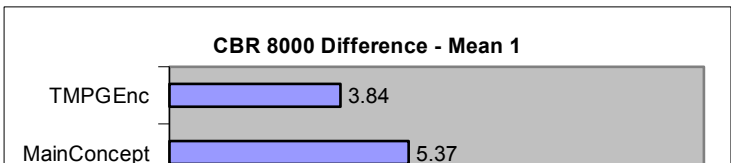
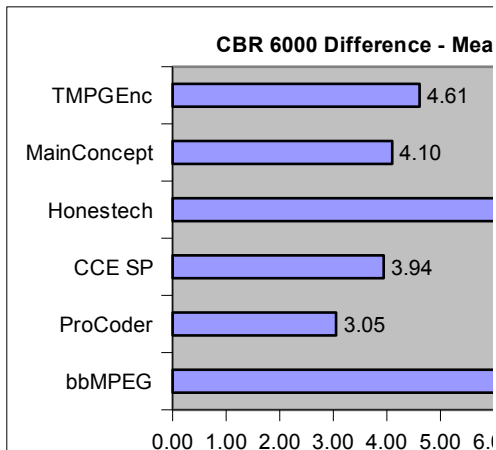
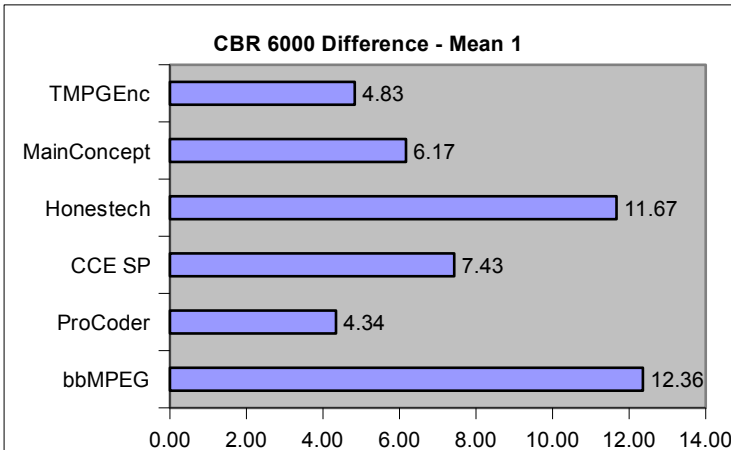
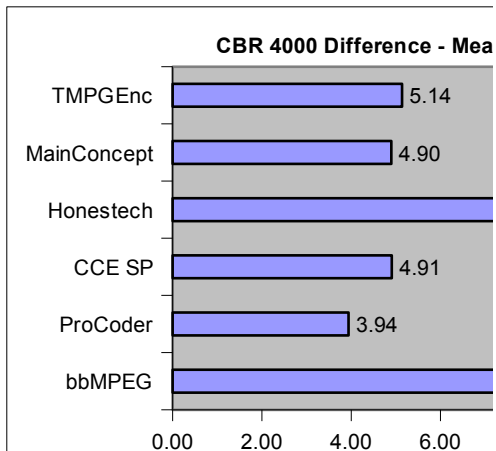
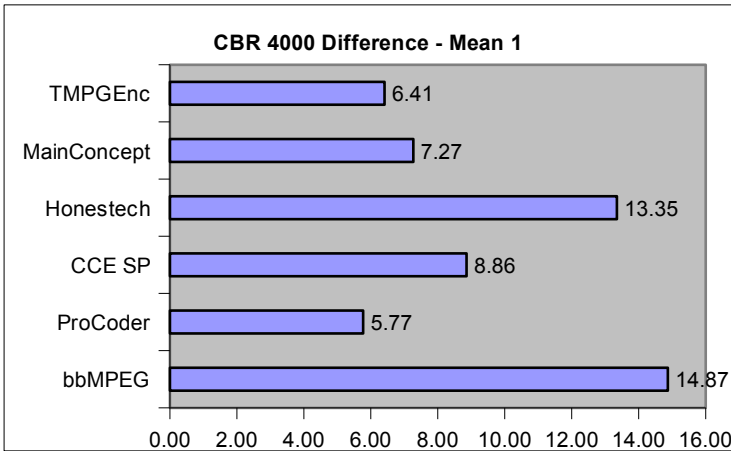
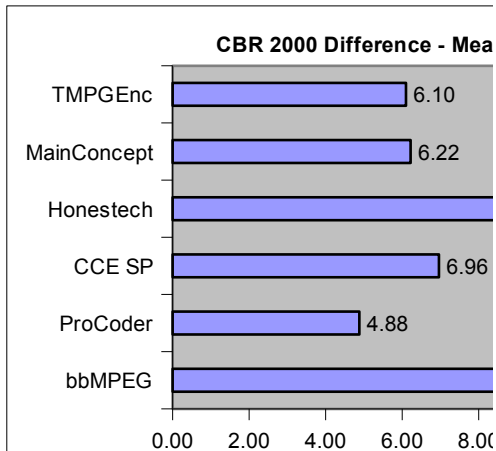
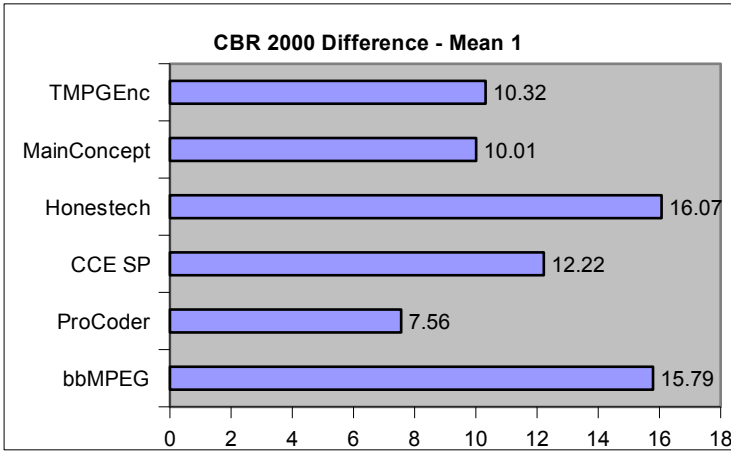


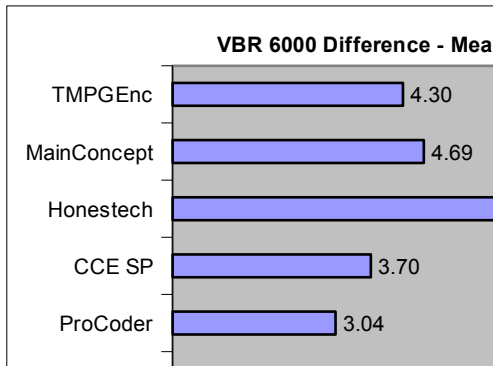
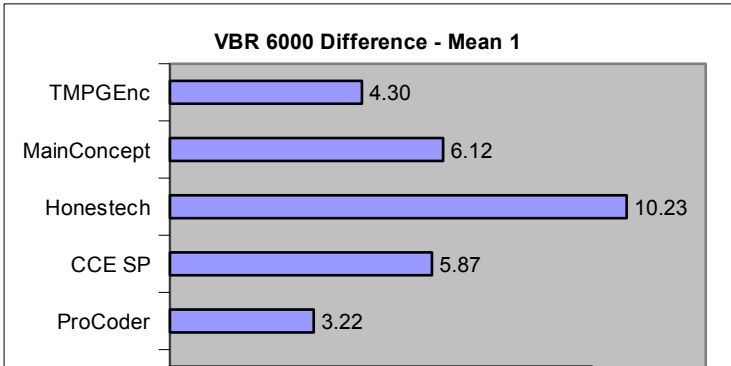
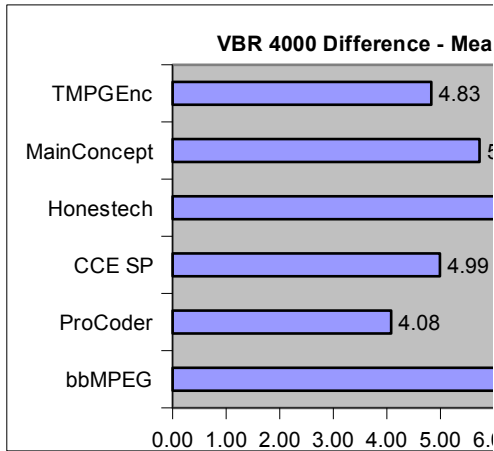
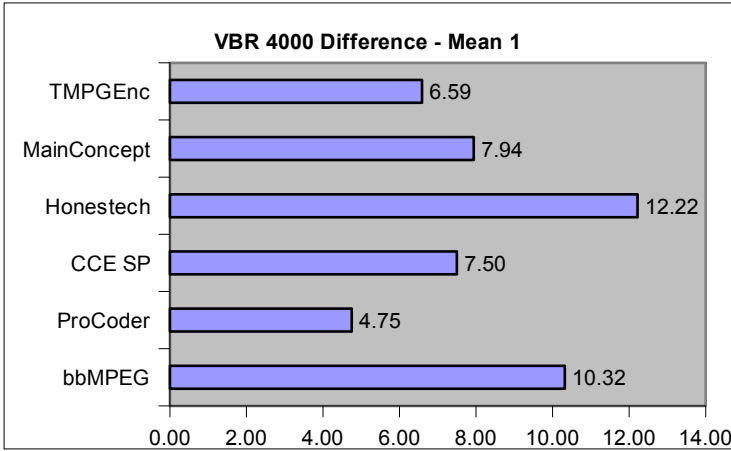
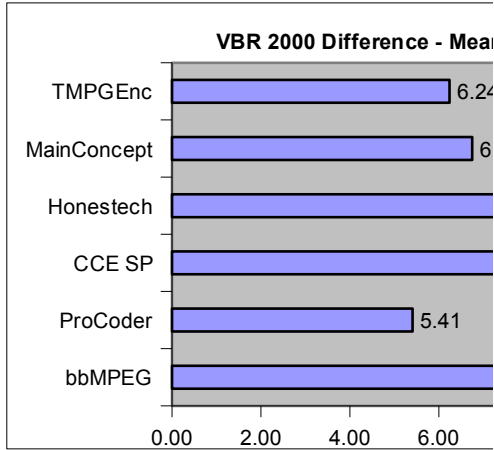
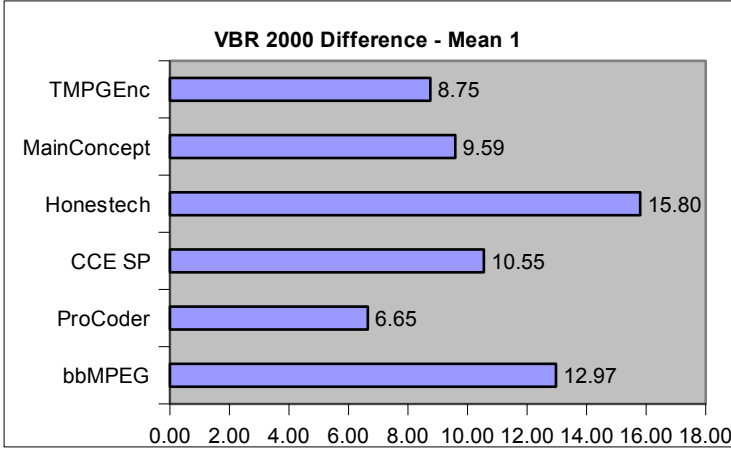
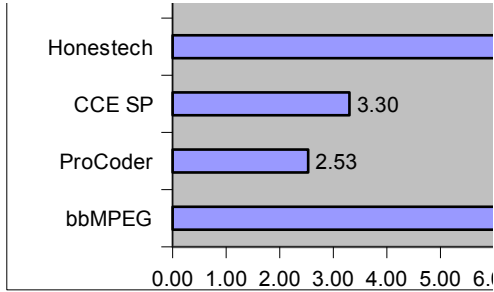
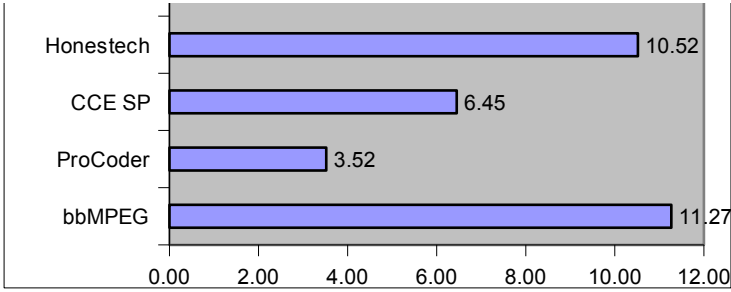
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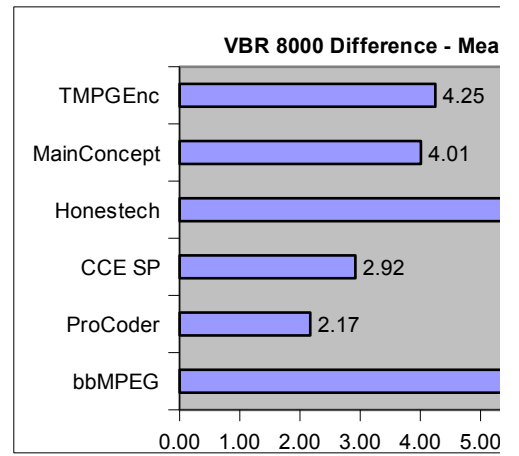
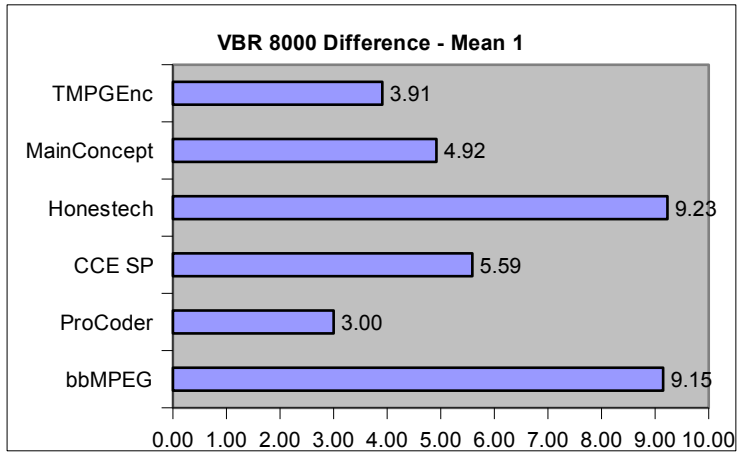
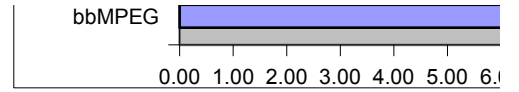
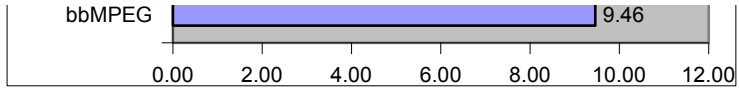


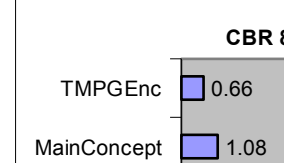
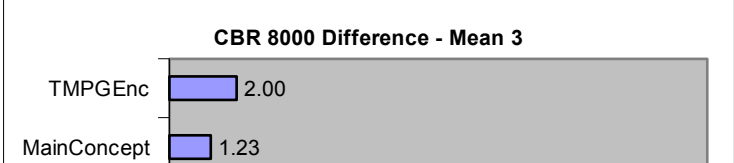
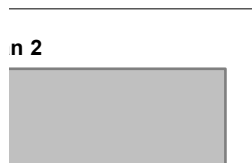
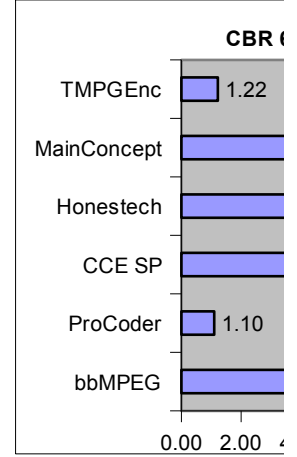
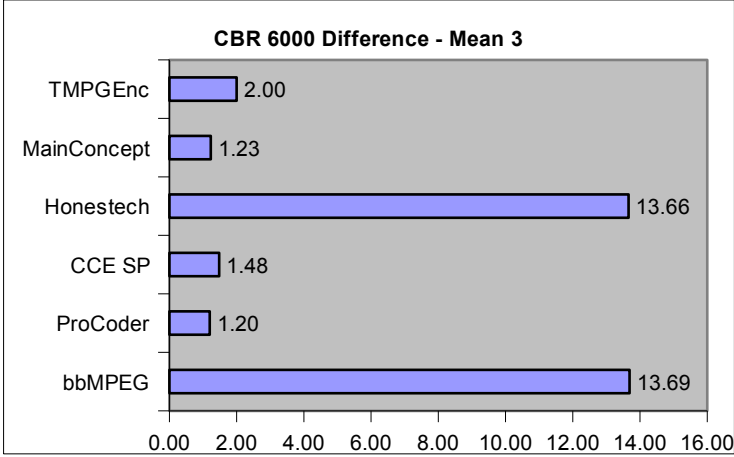
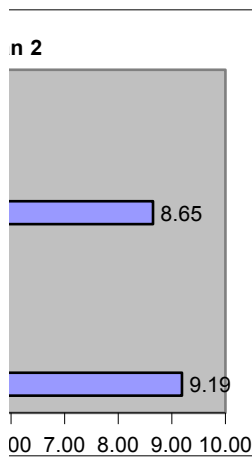
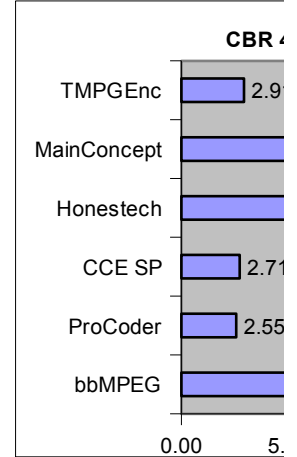
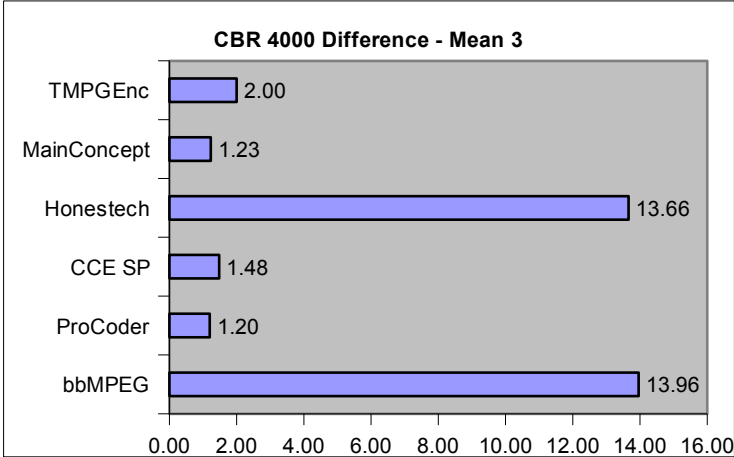
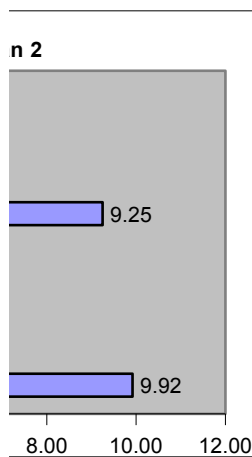
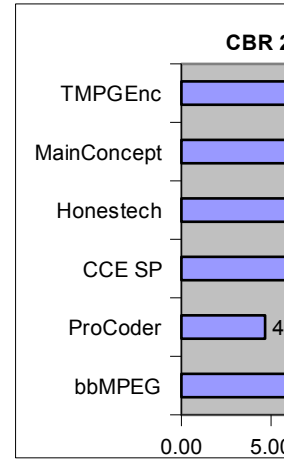
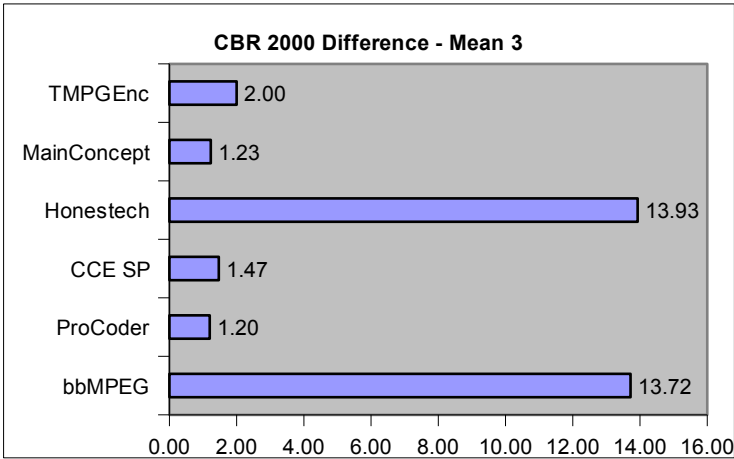
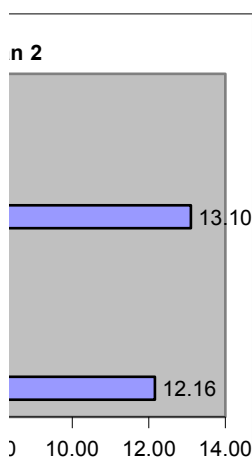
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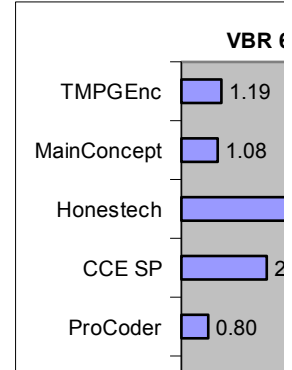
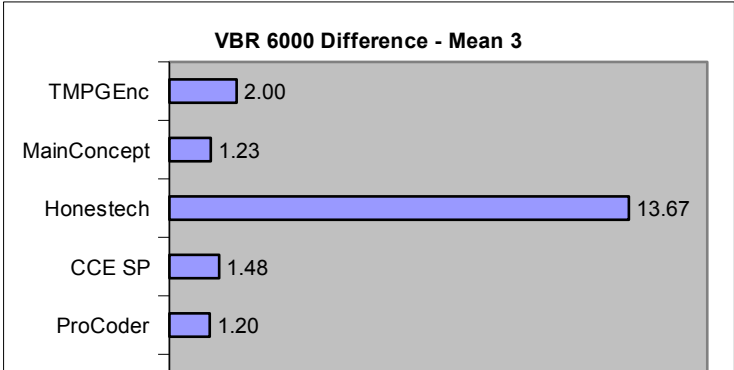
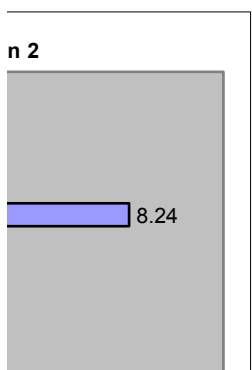
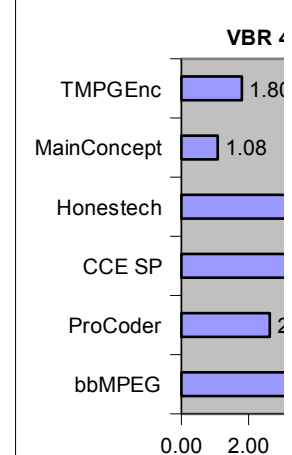
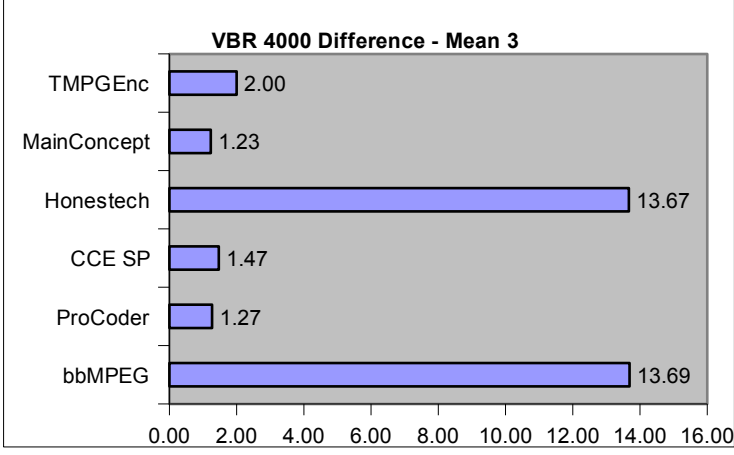
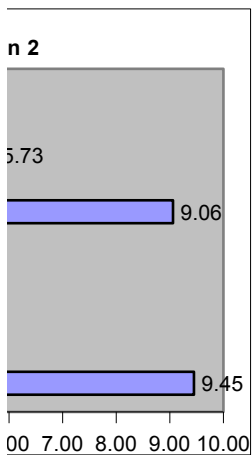
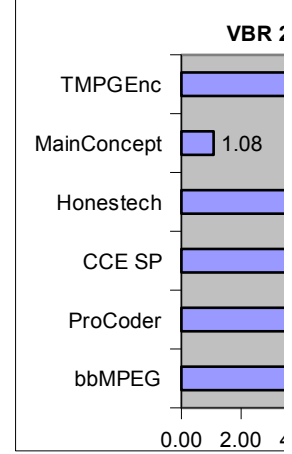
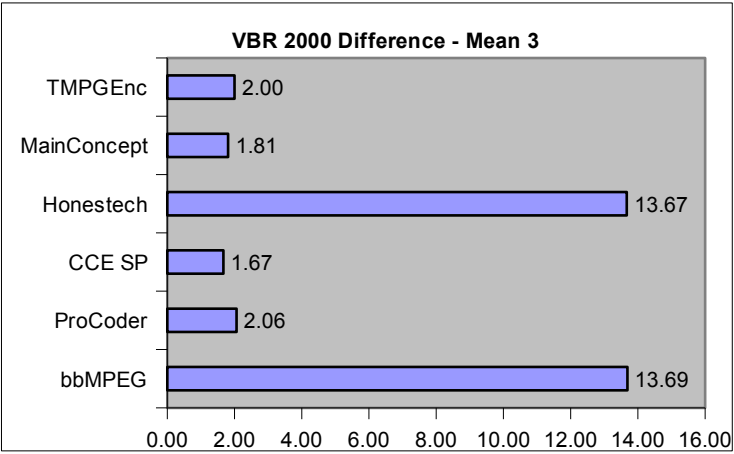
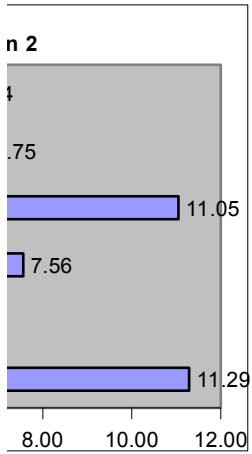
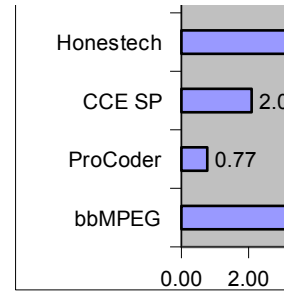
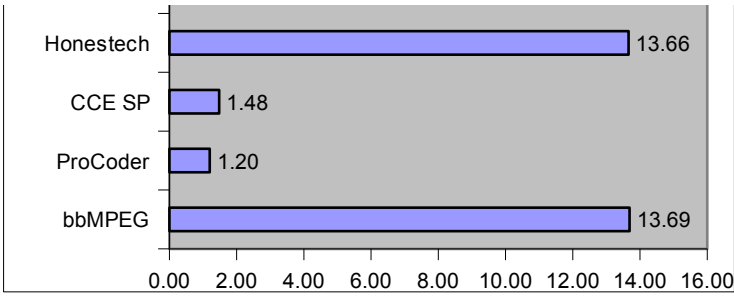
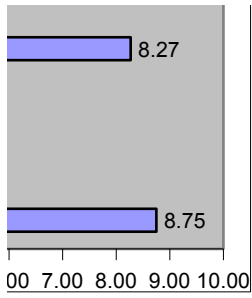


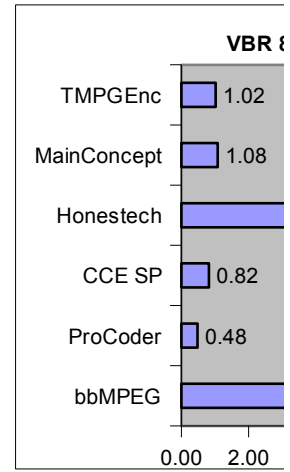
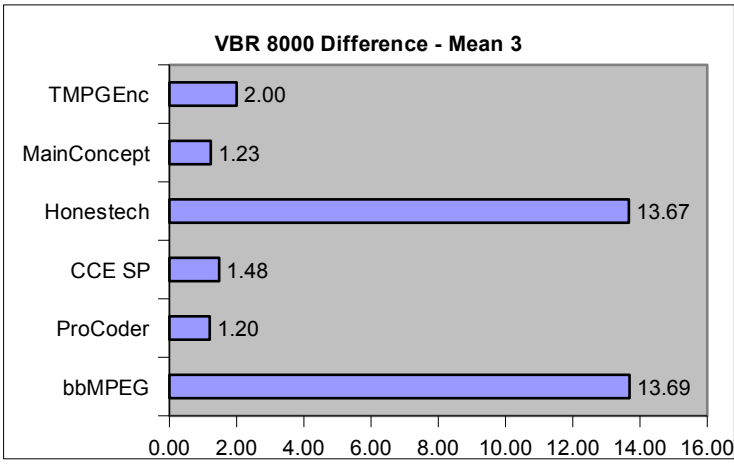
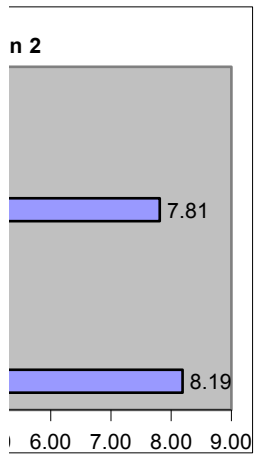
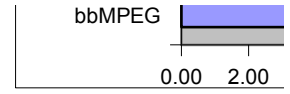
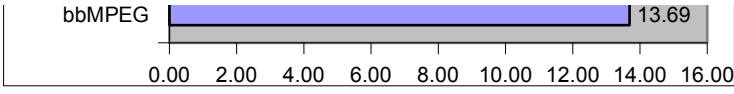
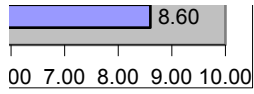


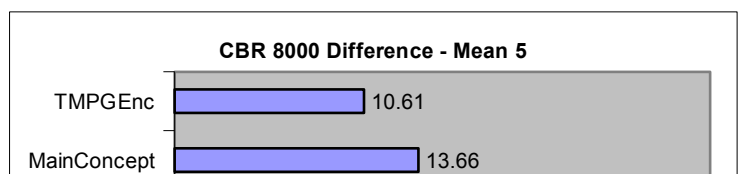
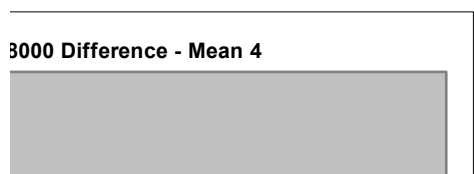
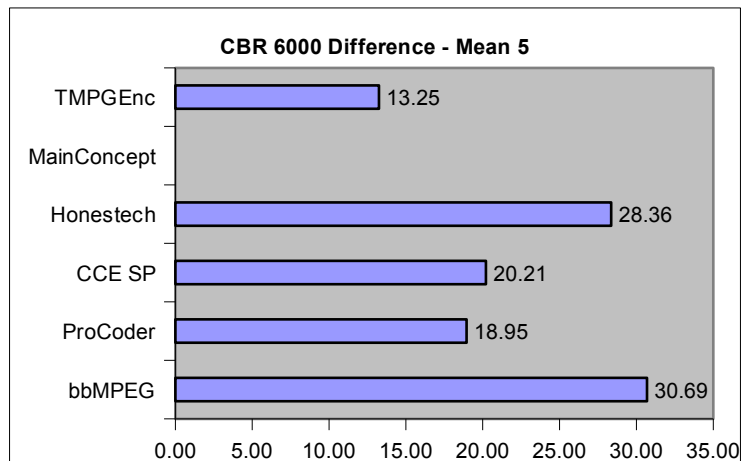
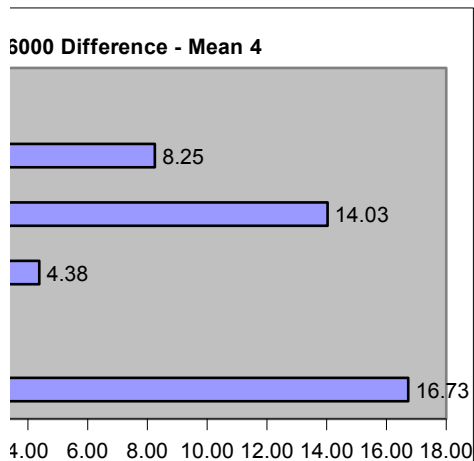
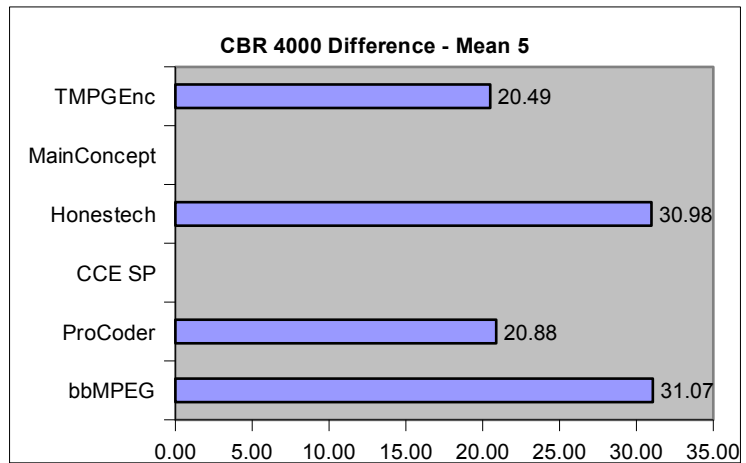
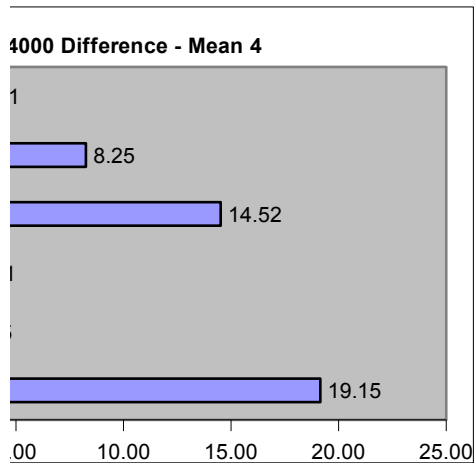
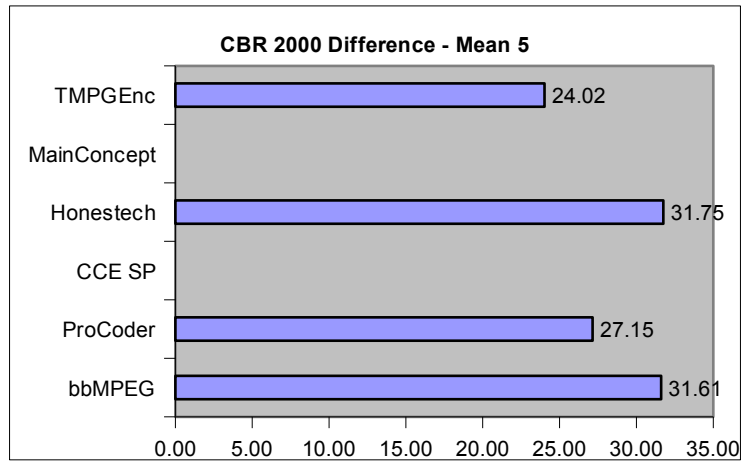
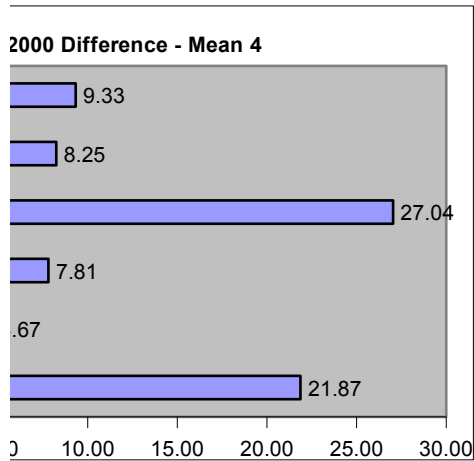


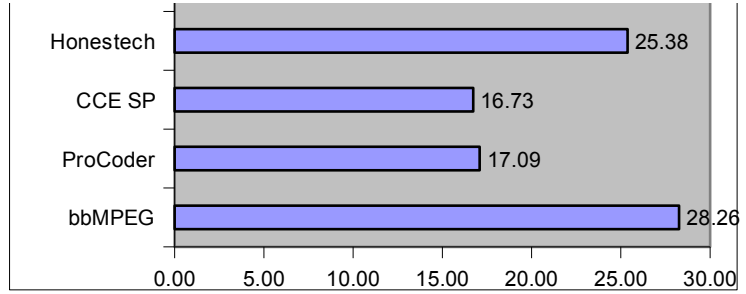
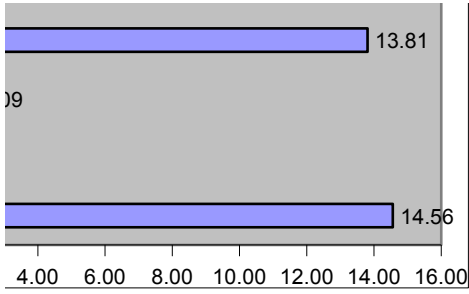




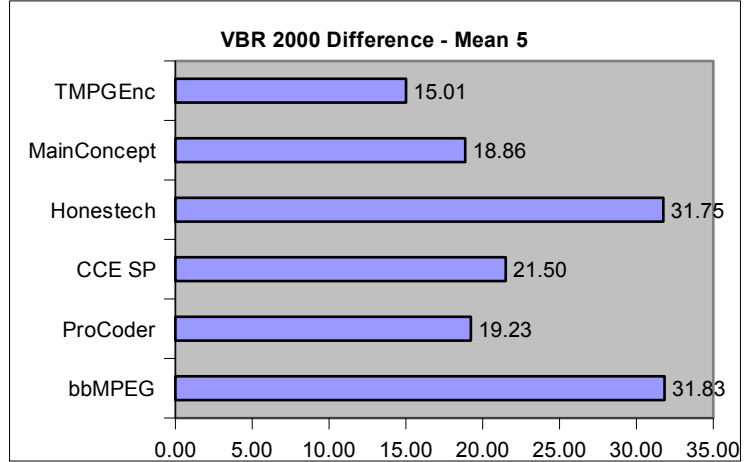
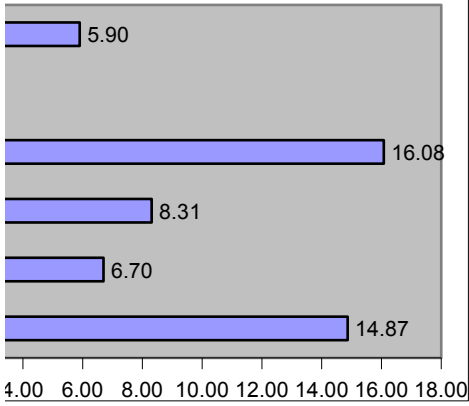




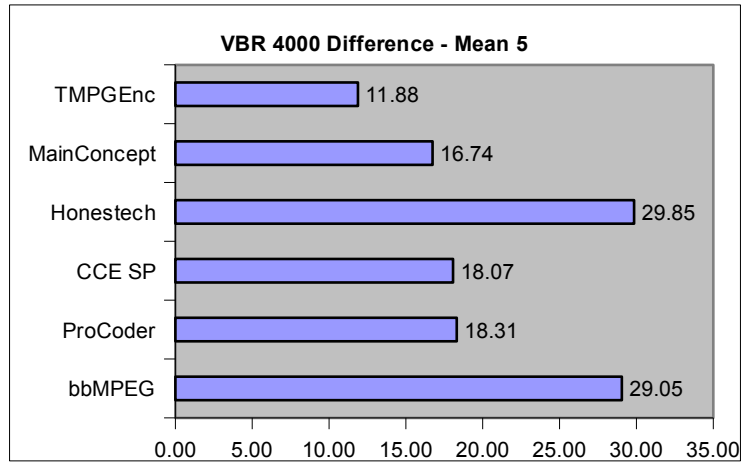
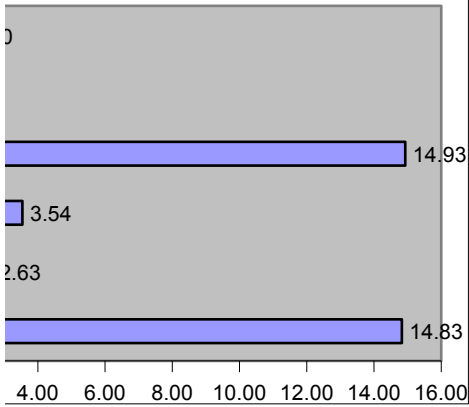




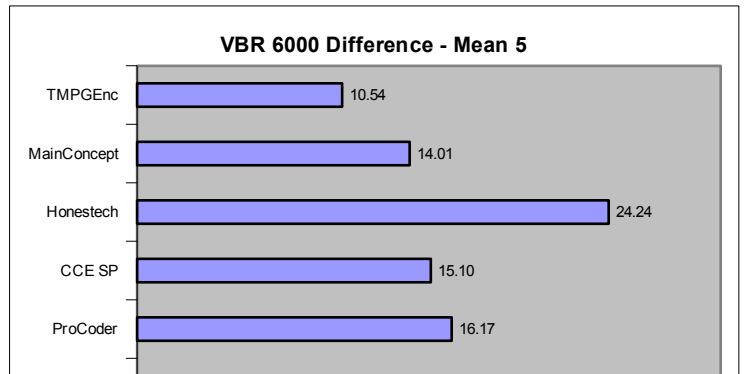
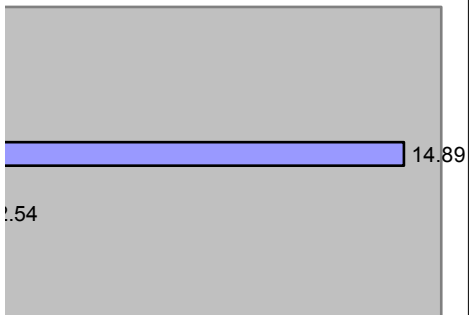
2000 Difference - Mean 4

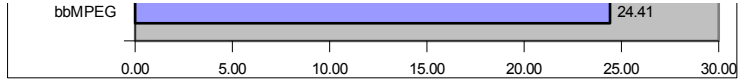
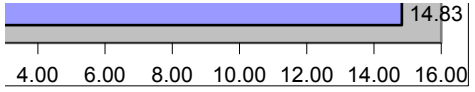


4000 Difference - Mean 4

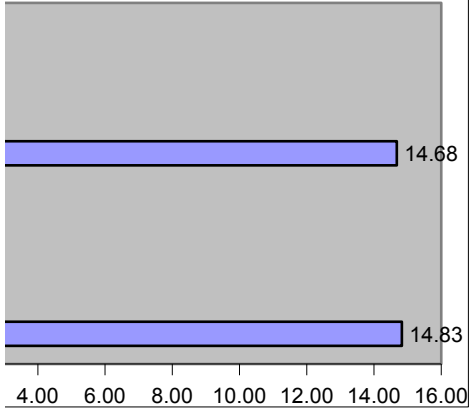


6000 Difference - Mean 4

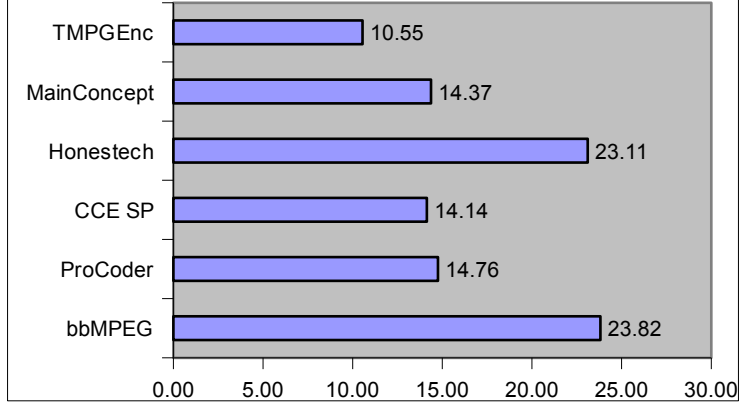


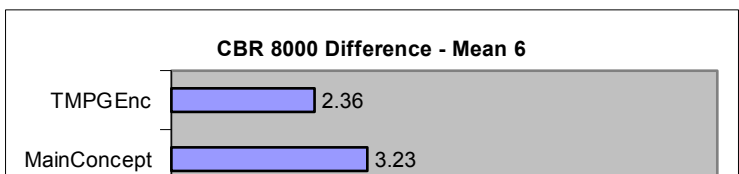
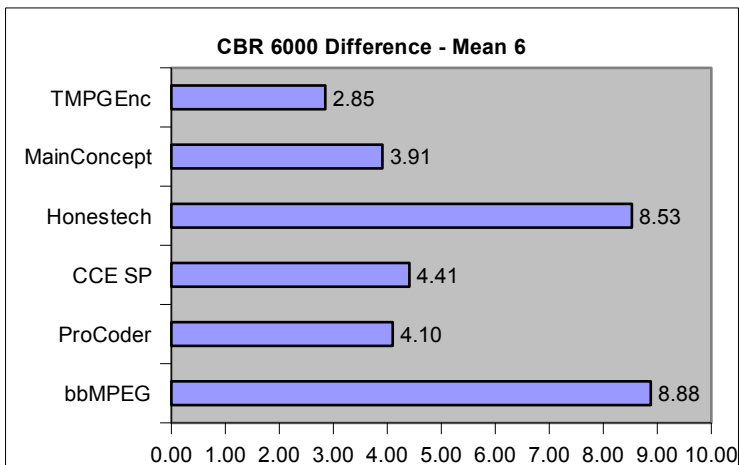
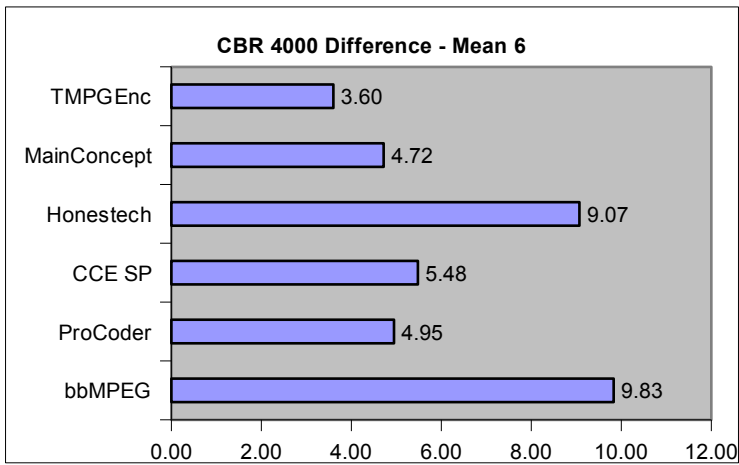
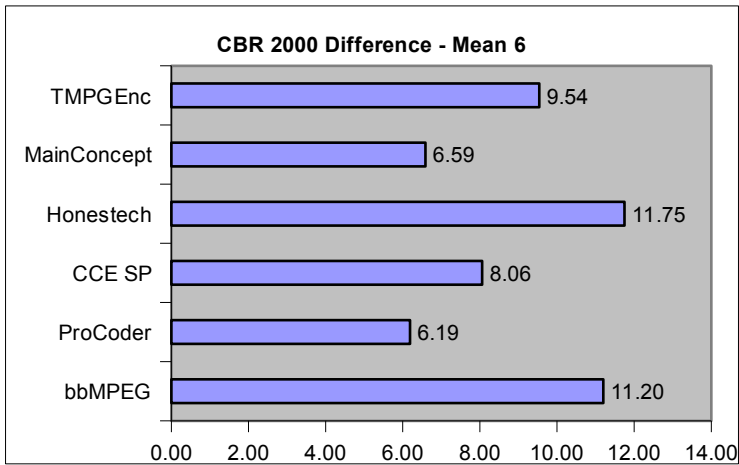


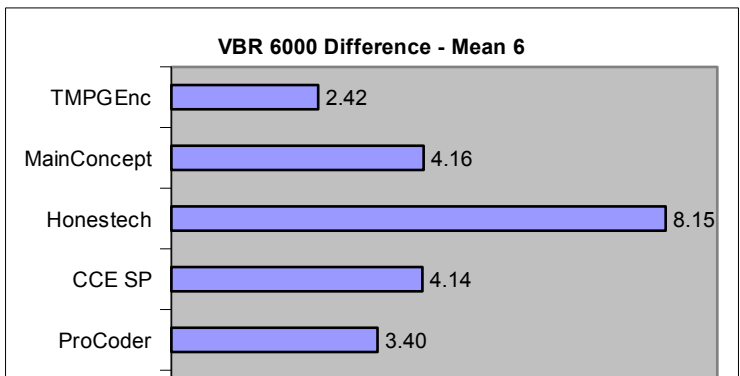
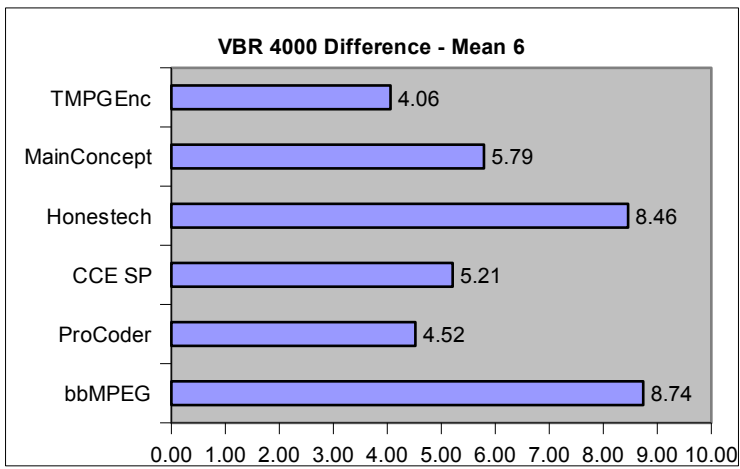
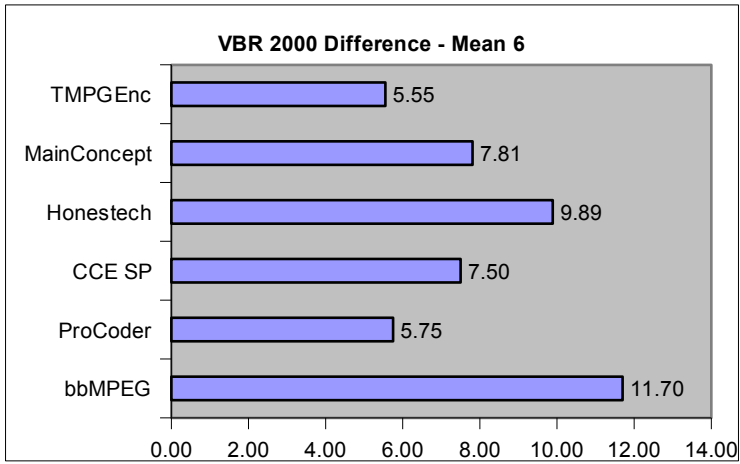
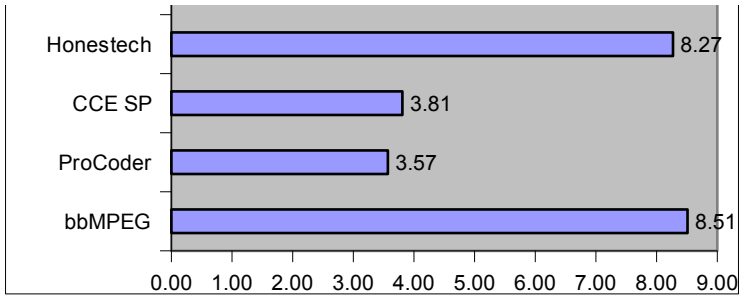
3000 Difference - Mean 4

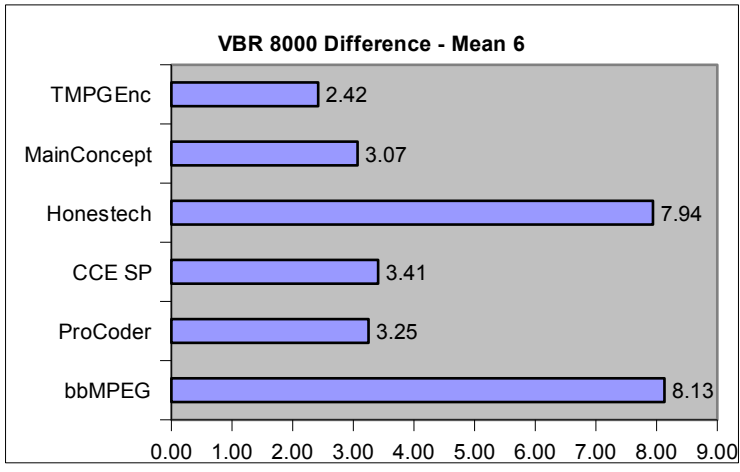
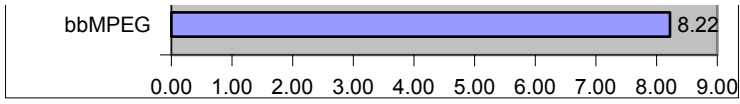


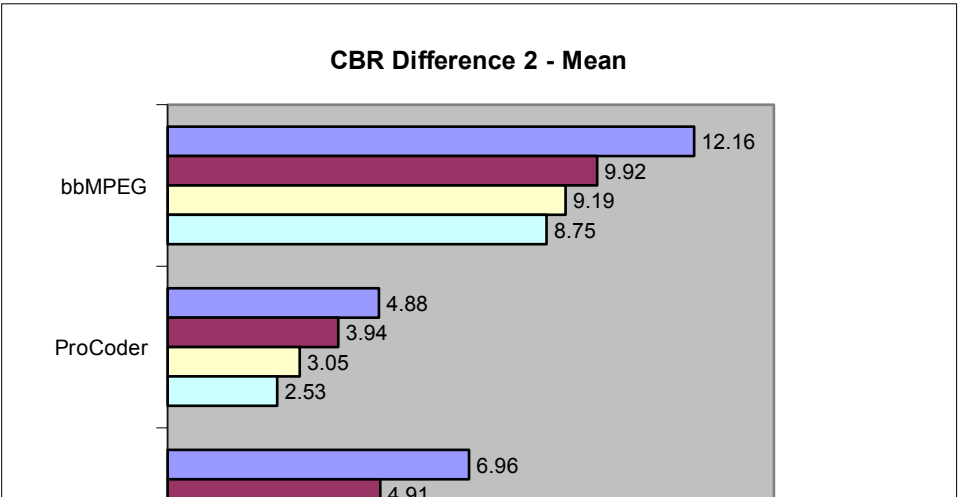
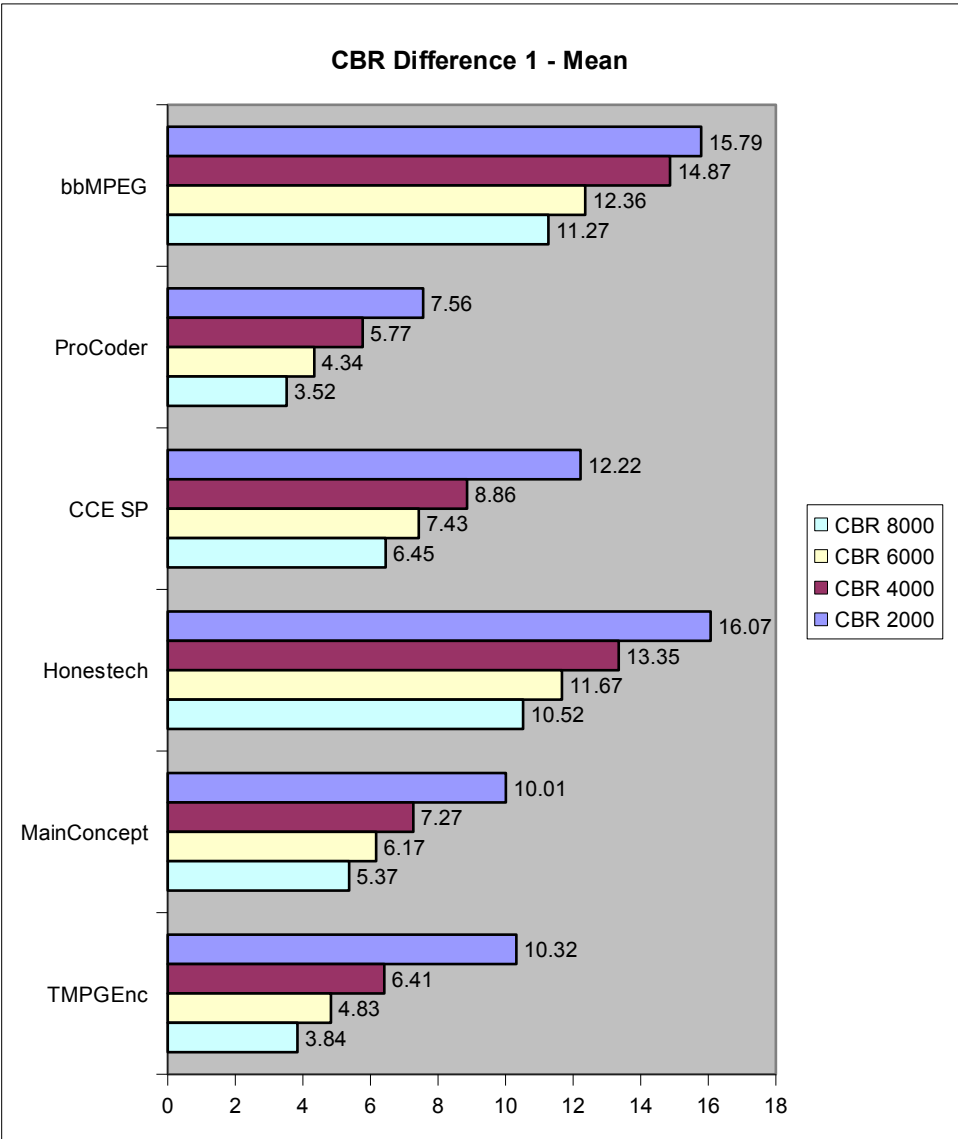
VBR 8000 Difference - Mean 5

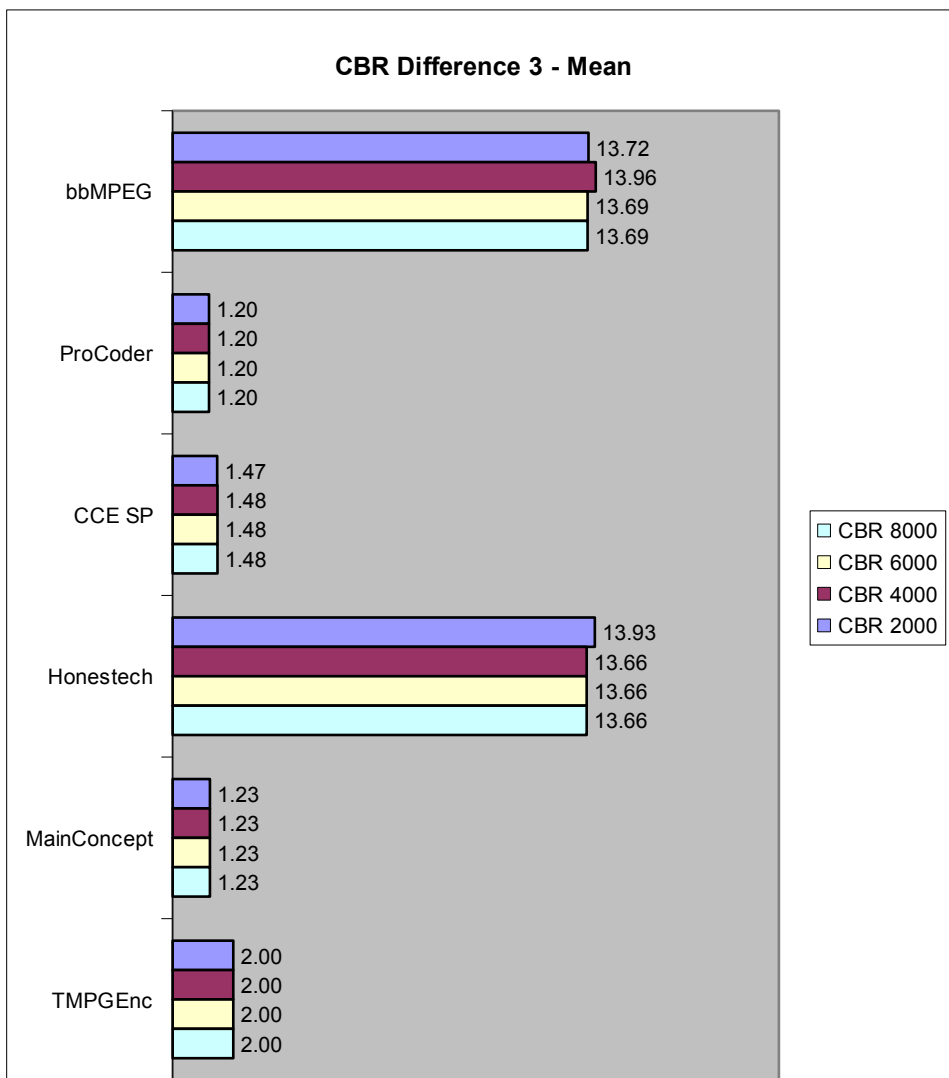
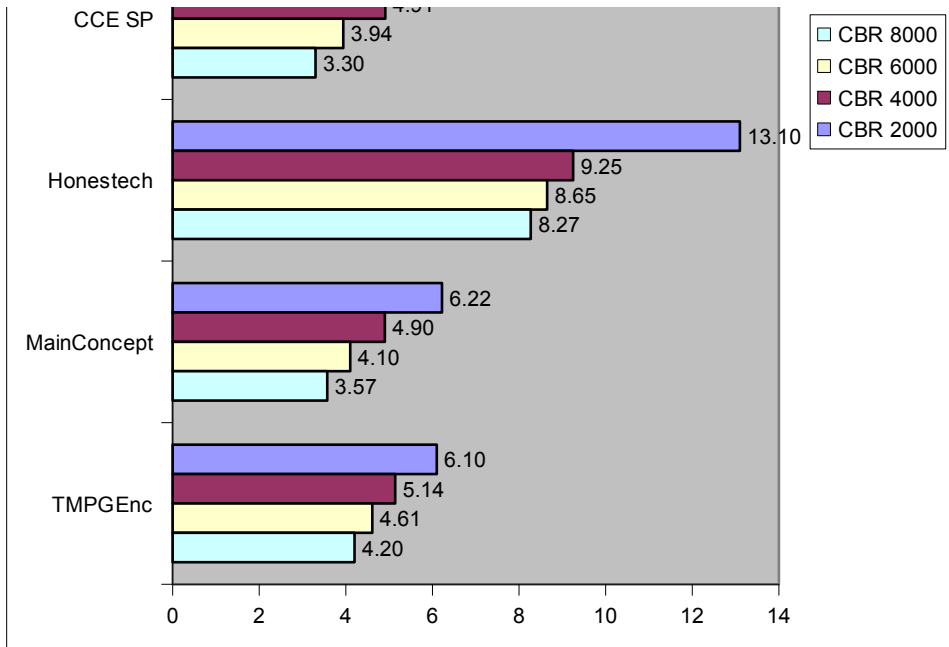






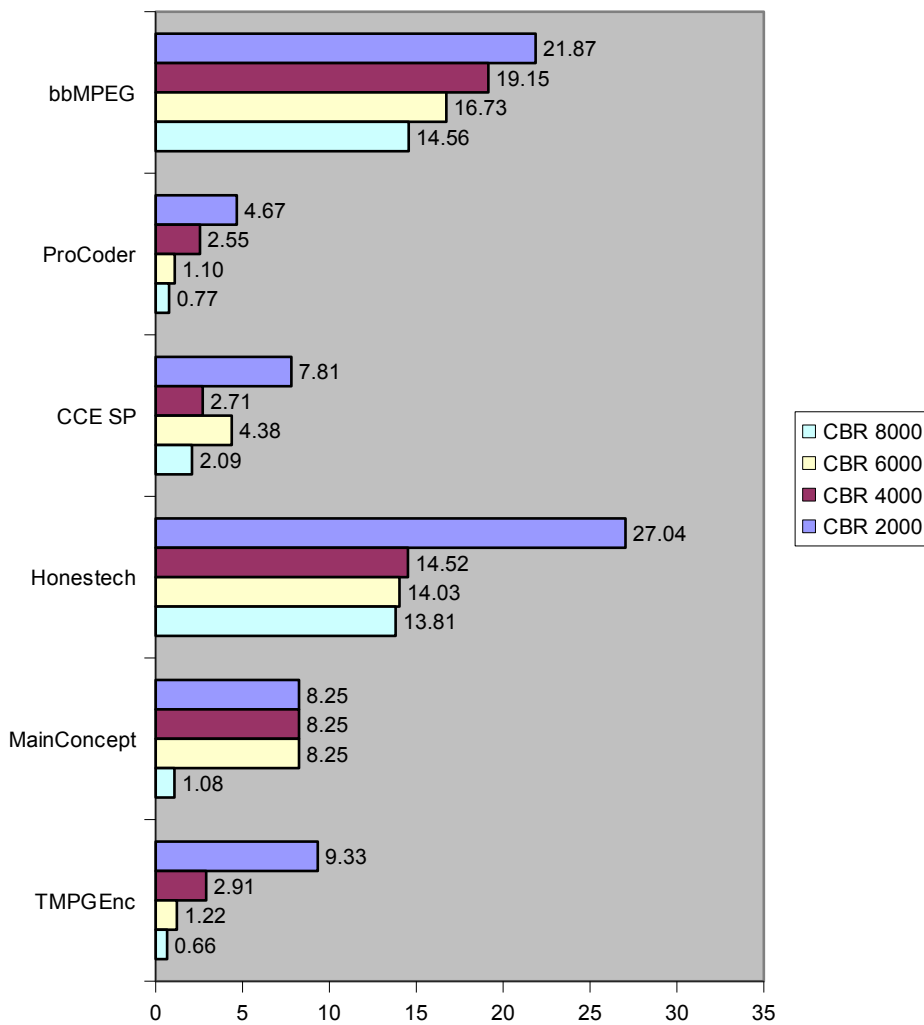




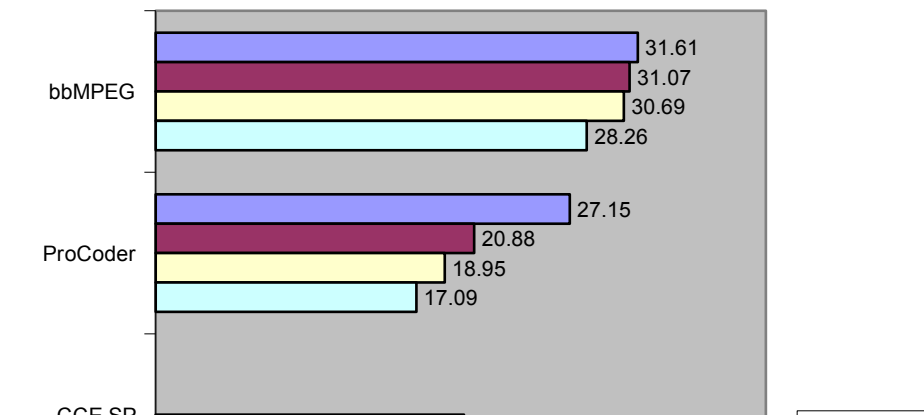


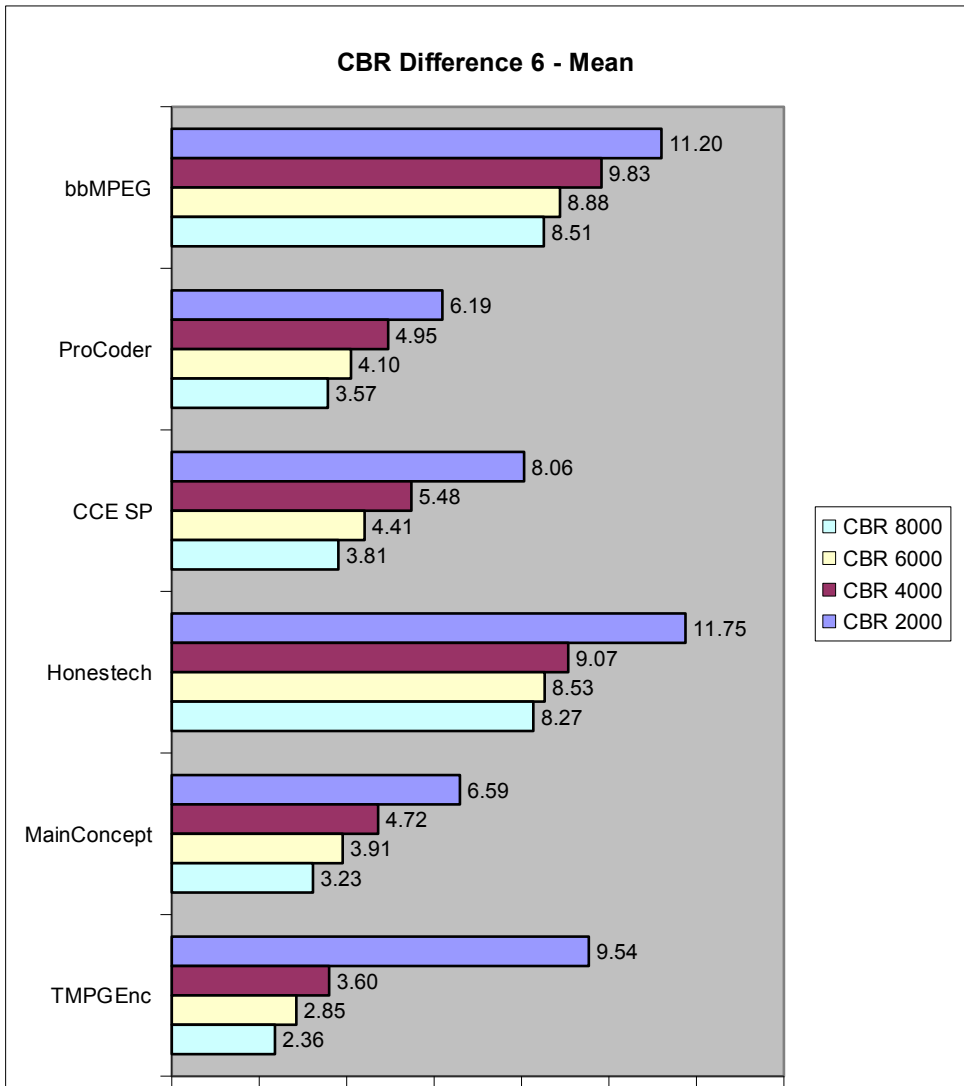
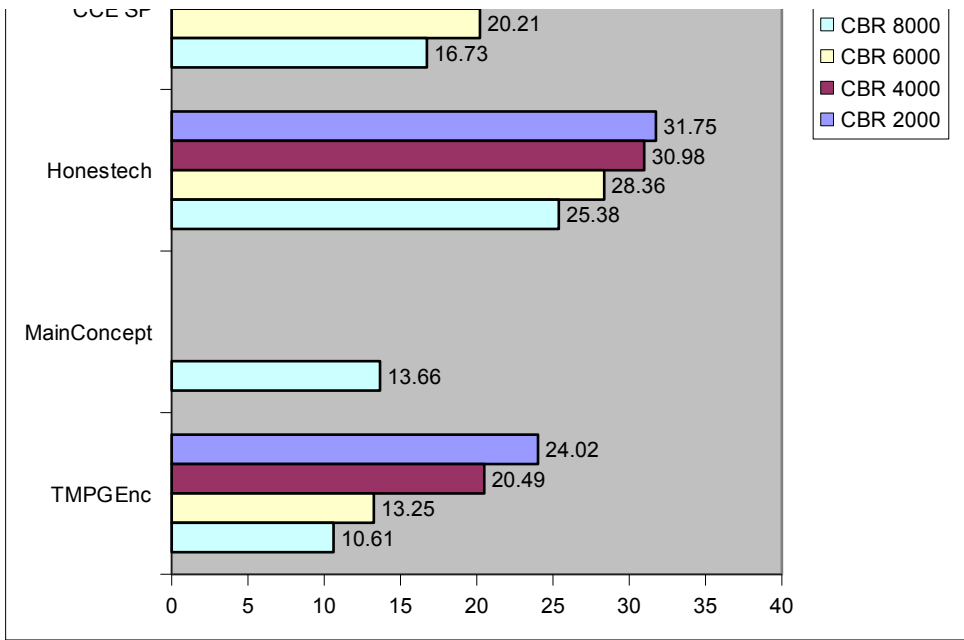
0 2 4 6 8 10 12 14 16 18 20

CBR Difference 4 - Mean



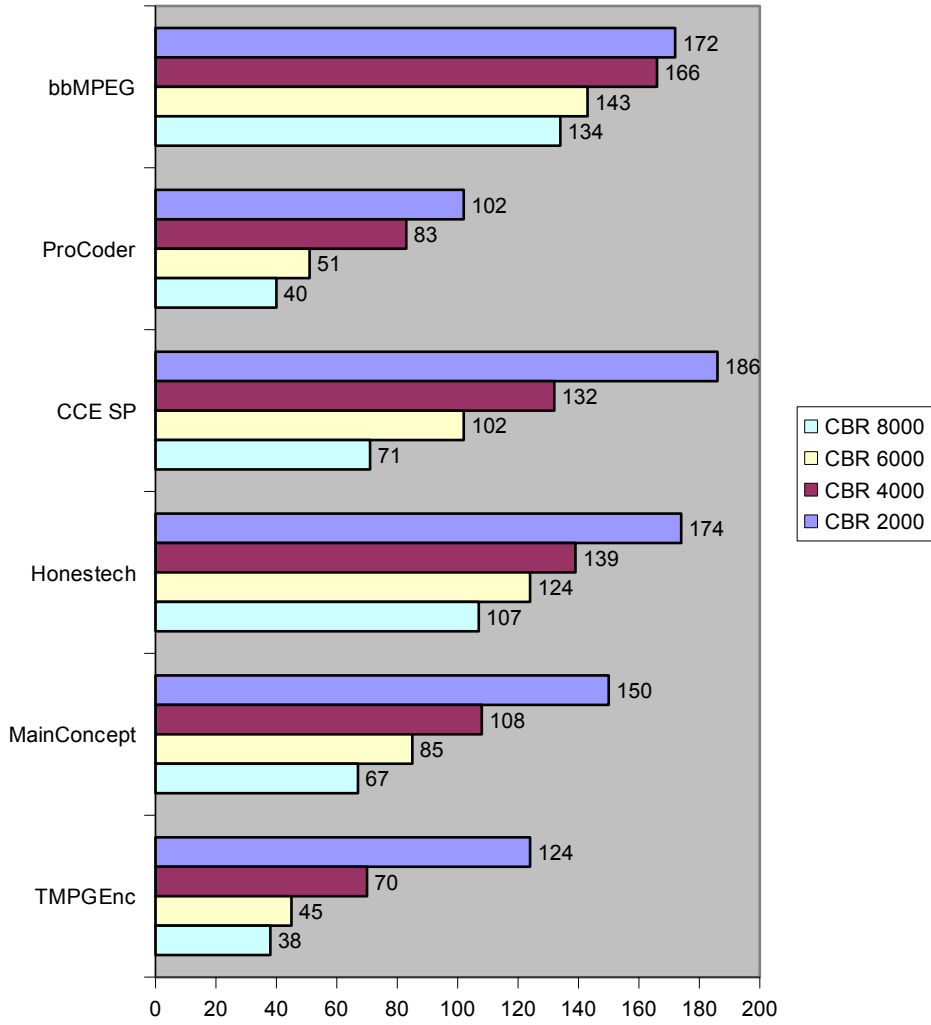
CBR Difference 5 - Mean



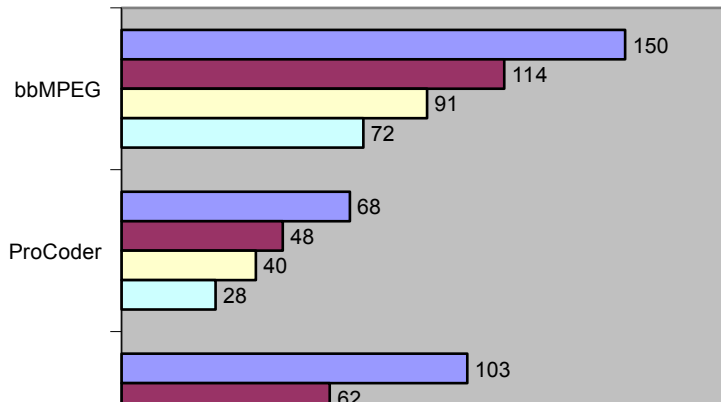


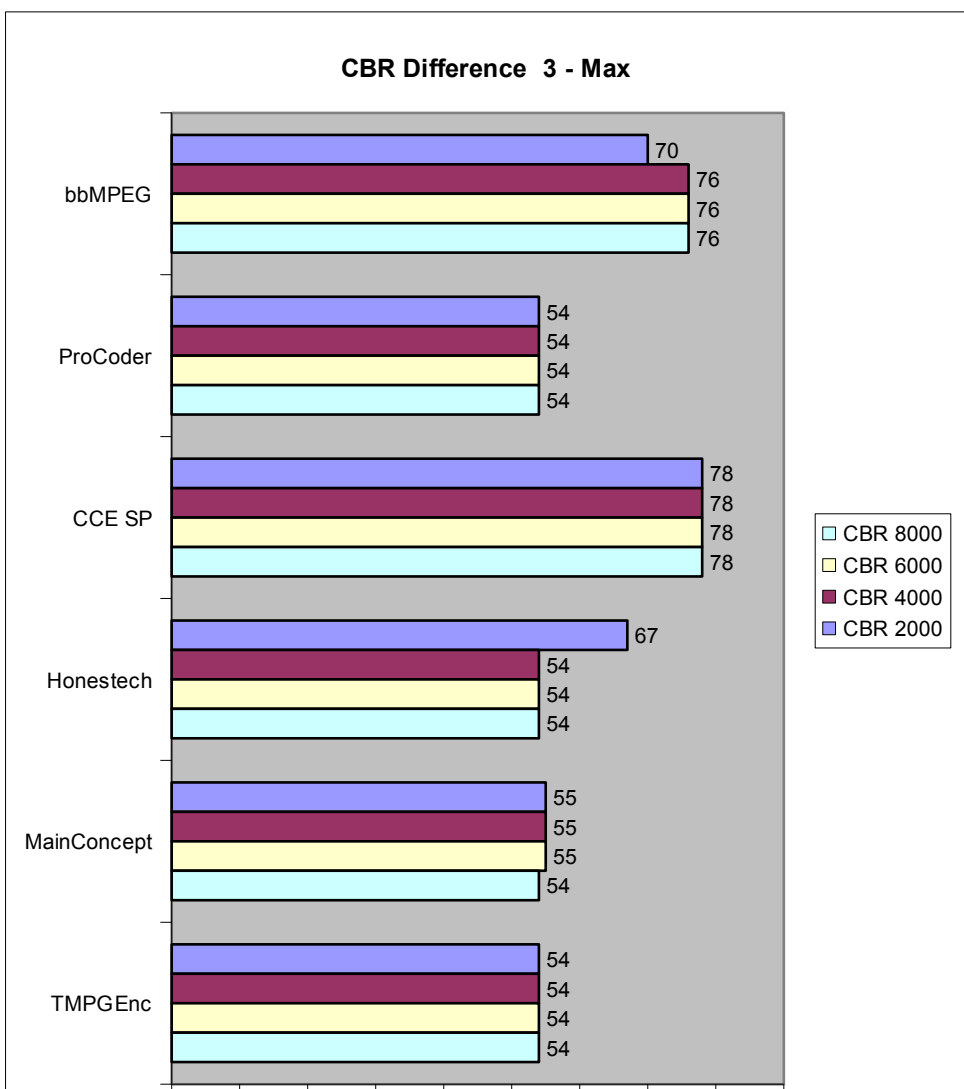
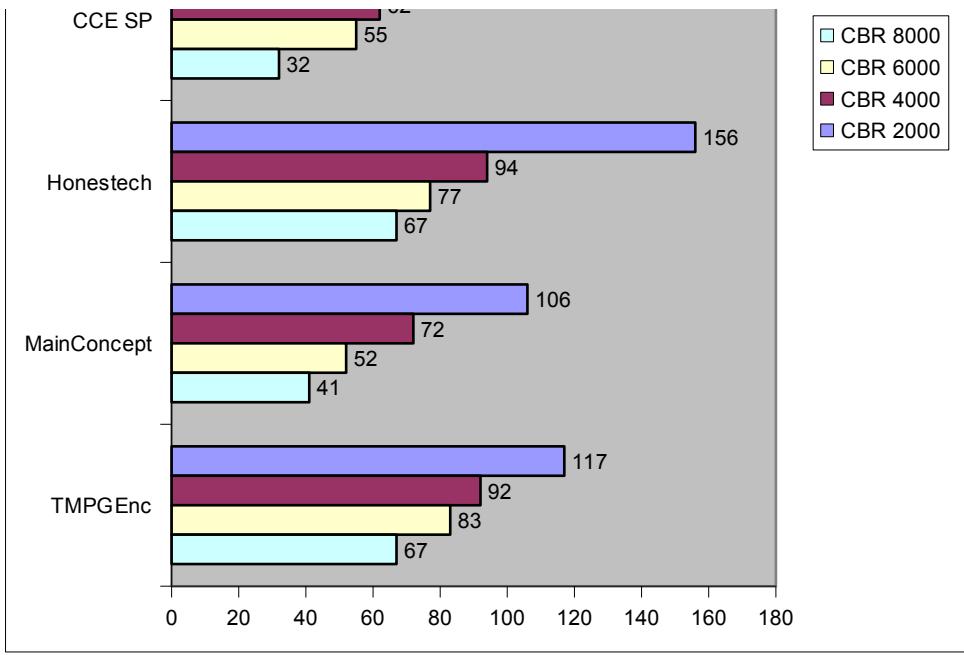
0 2 4 6 8 10 12 14

CBR Difference 1 - Max



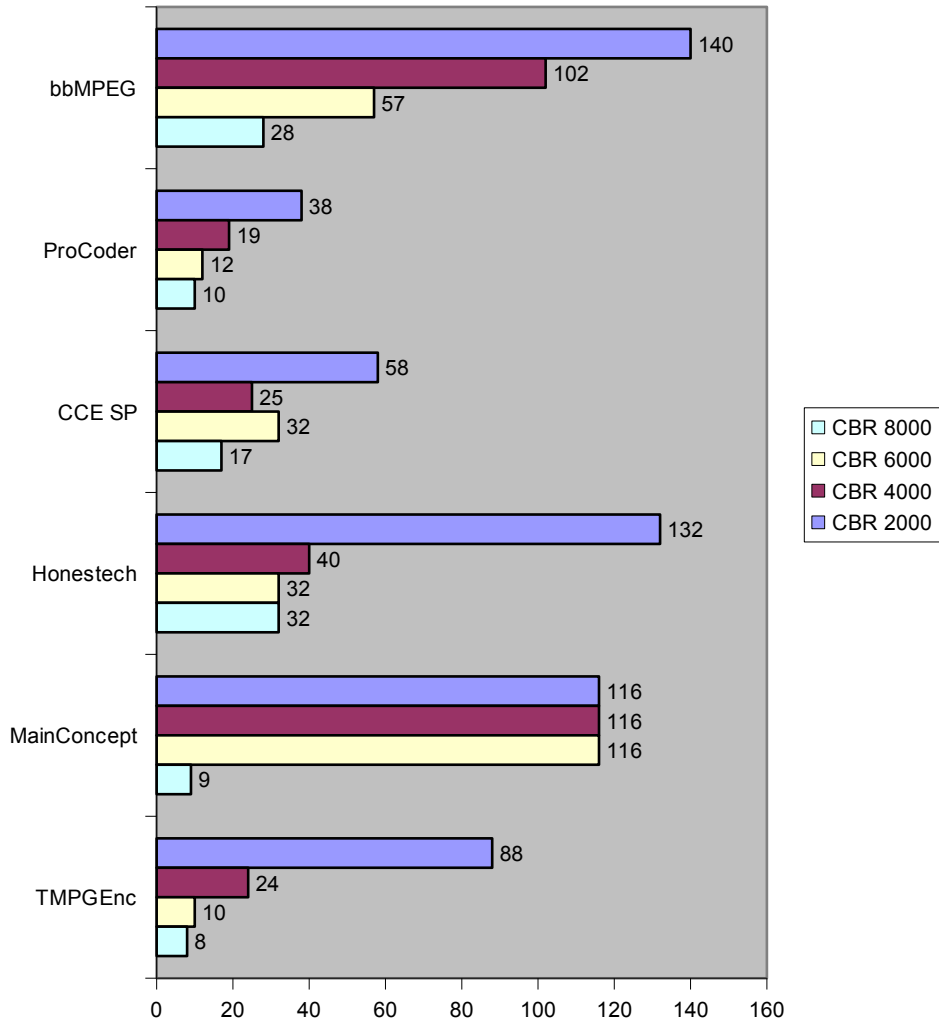
CBR Difference 2 - Max



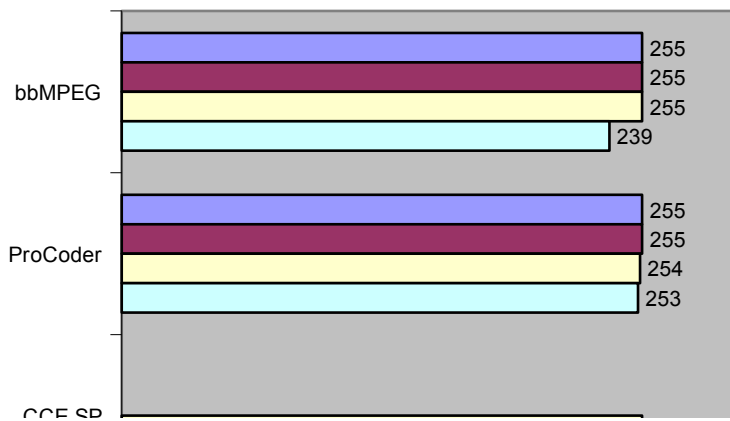


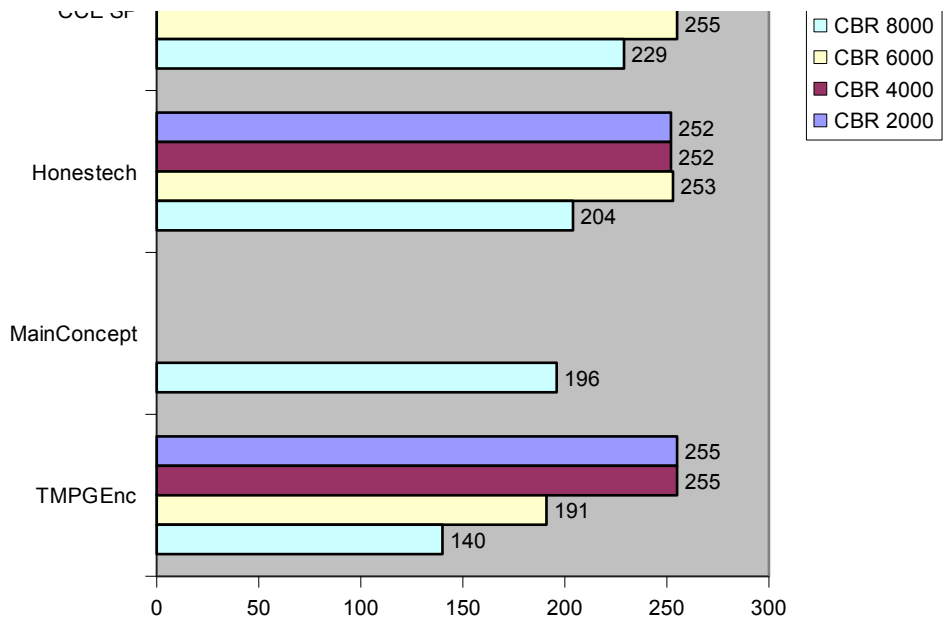
0 10 20 30 40 50 60 70 80 90

CBR Difference 4 - Max

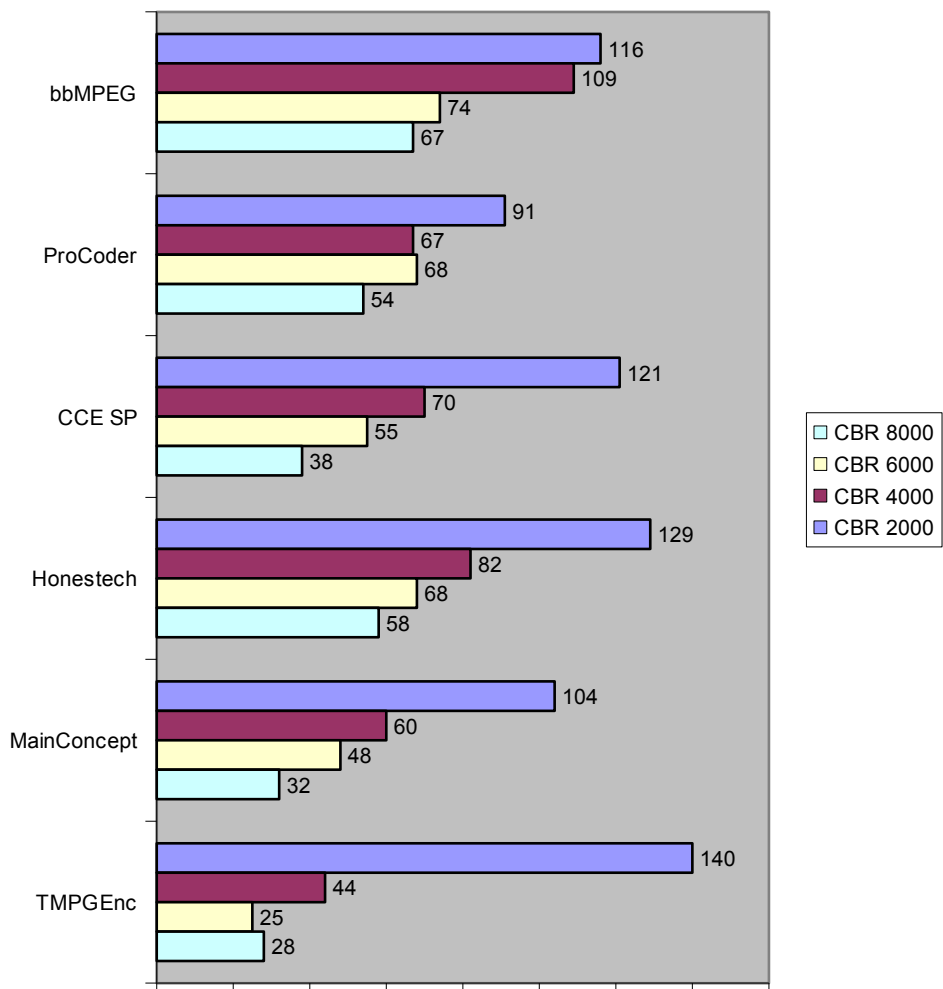


CBR Difference 5 - Max

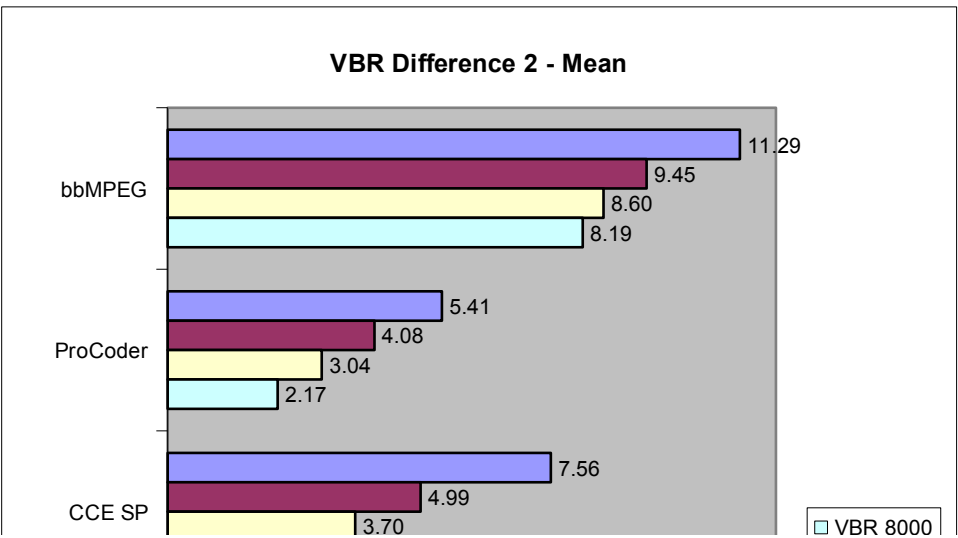
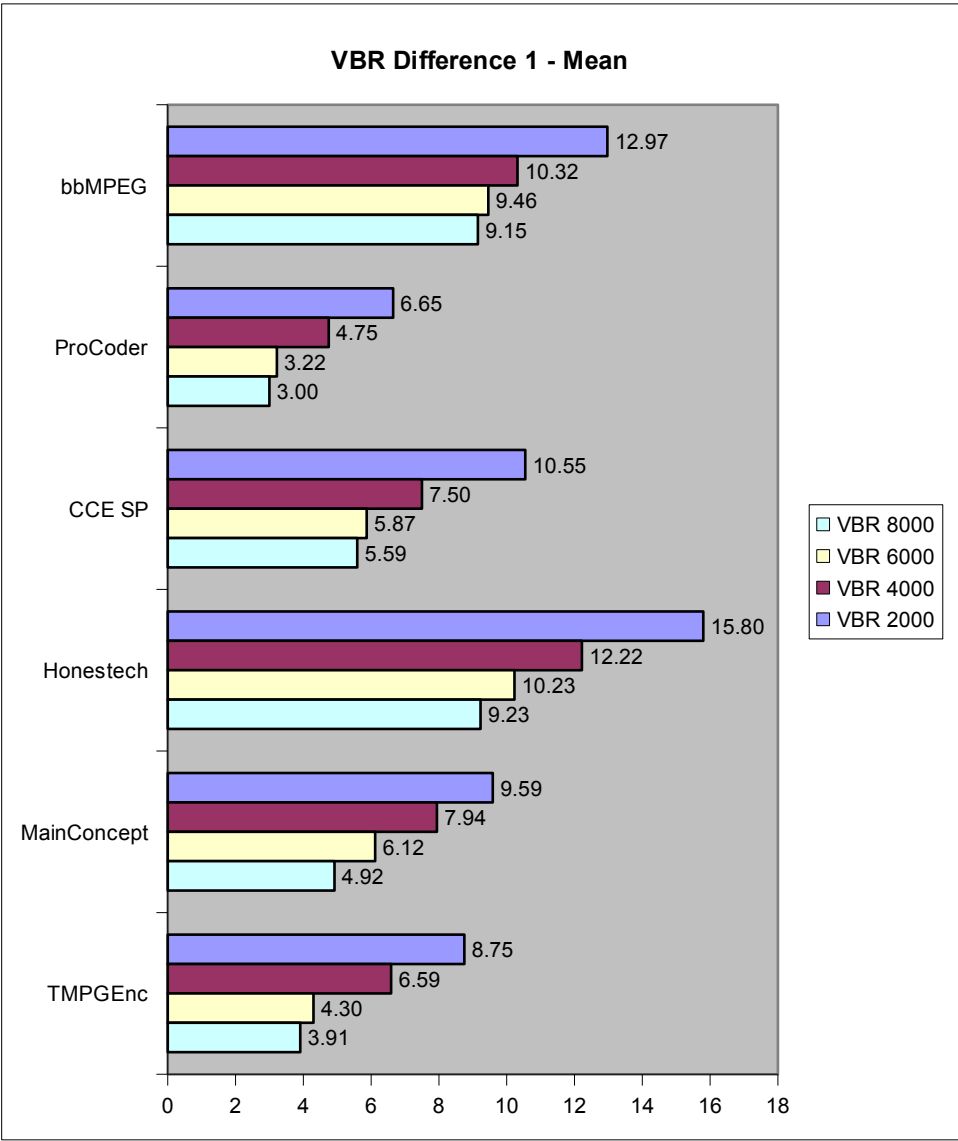


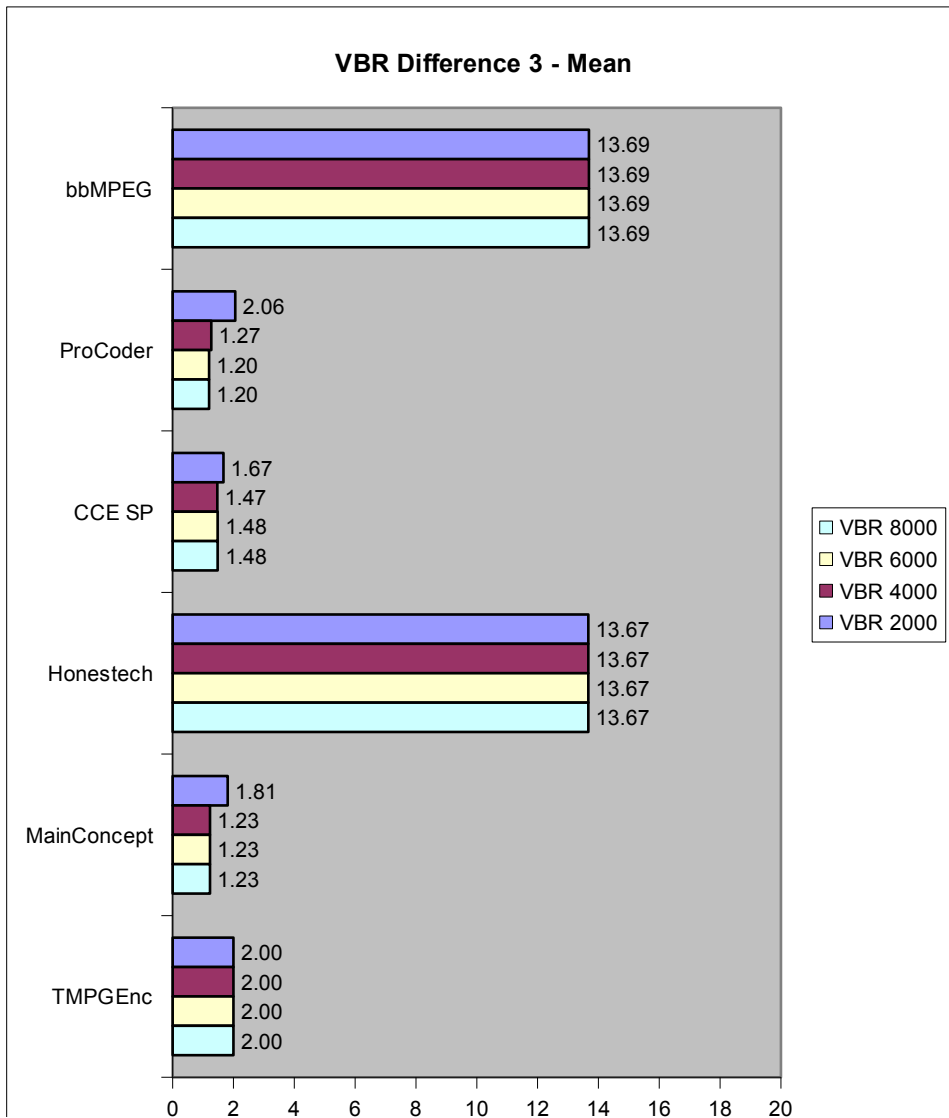
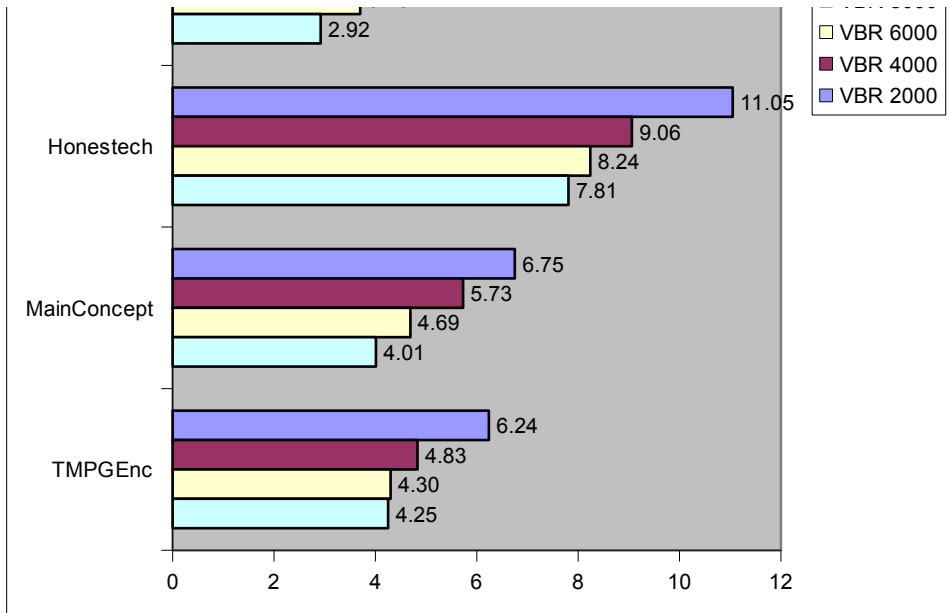


CBR Difference 6 - Max

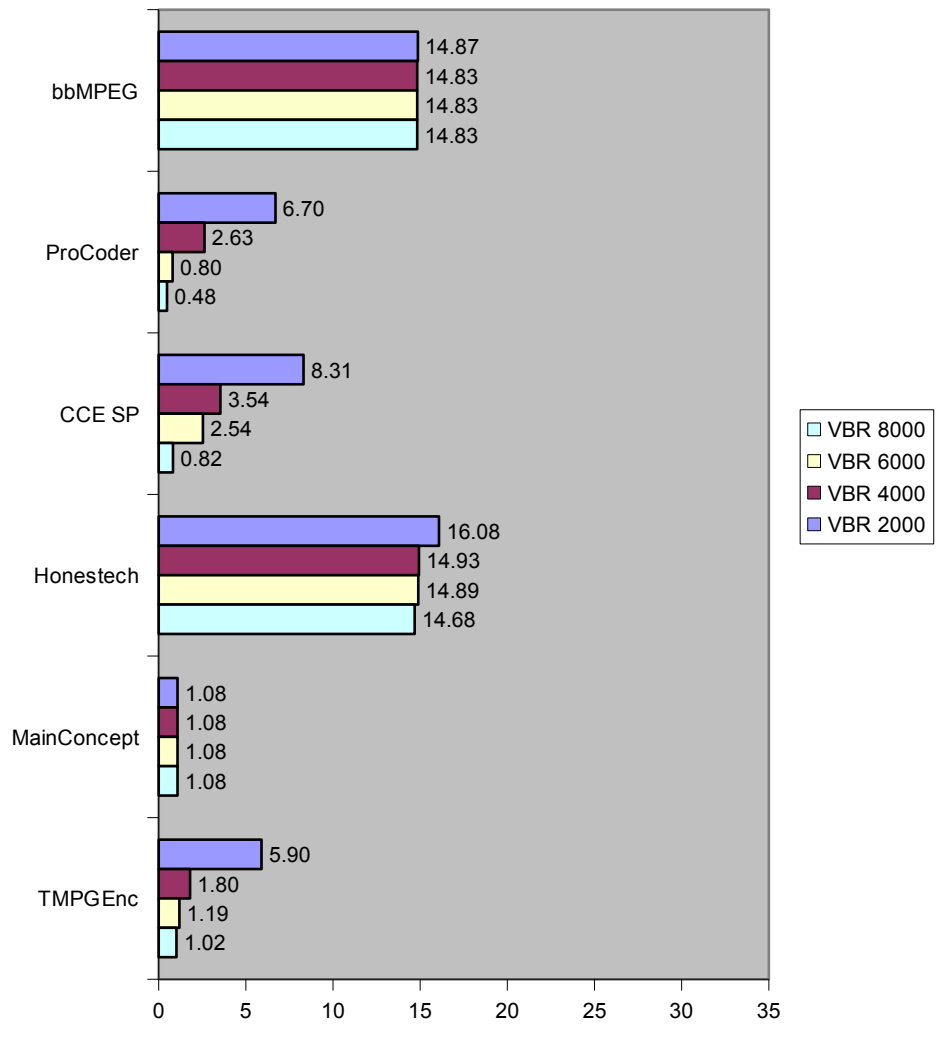


0 20 40 60 80 100 120 140 160

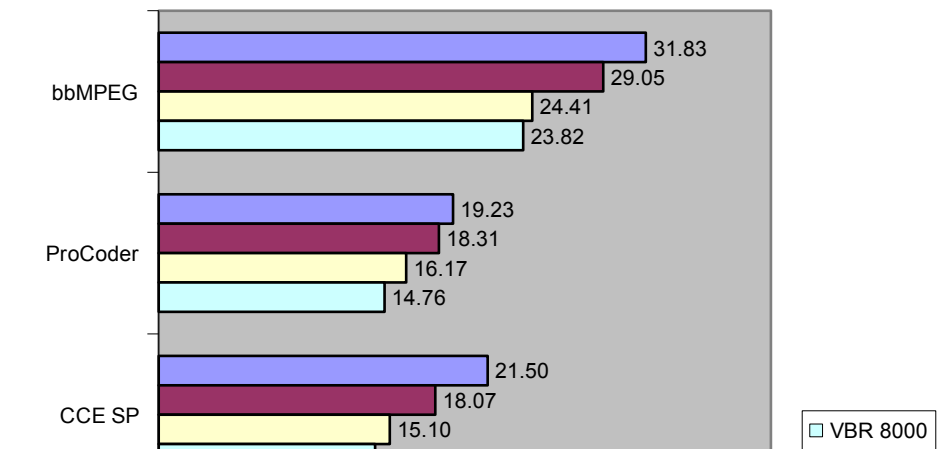


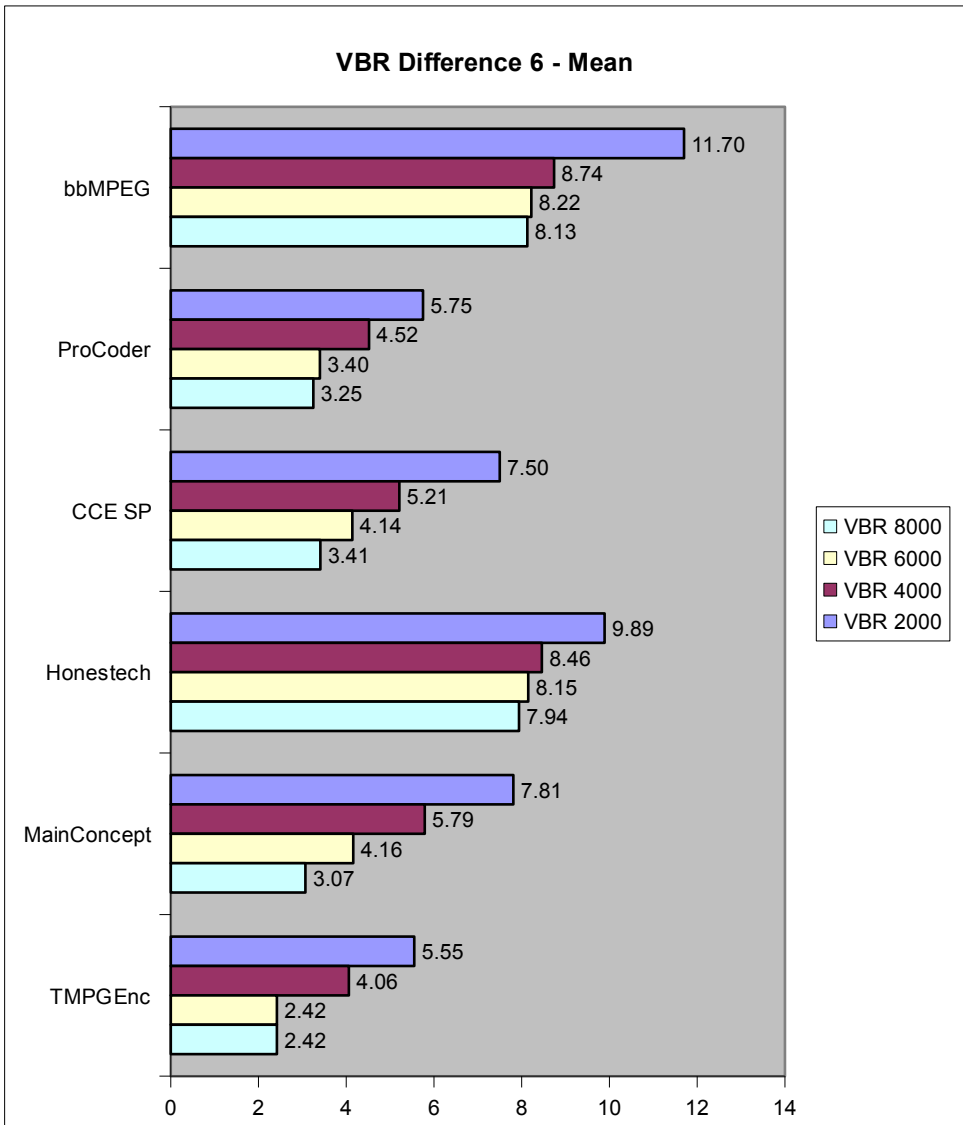
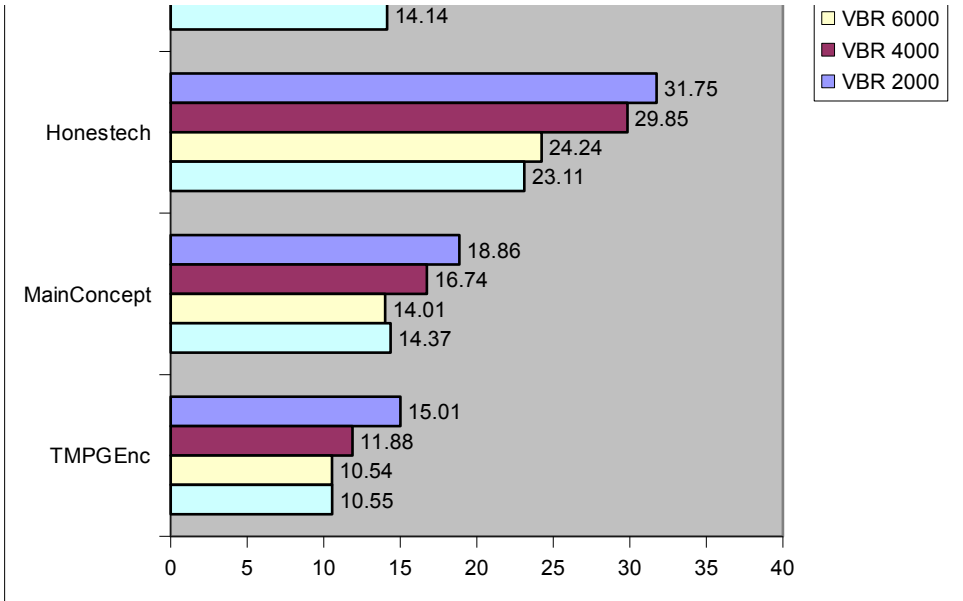


VBR Difference 4 - Mean



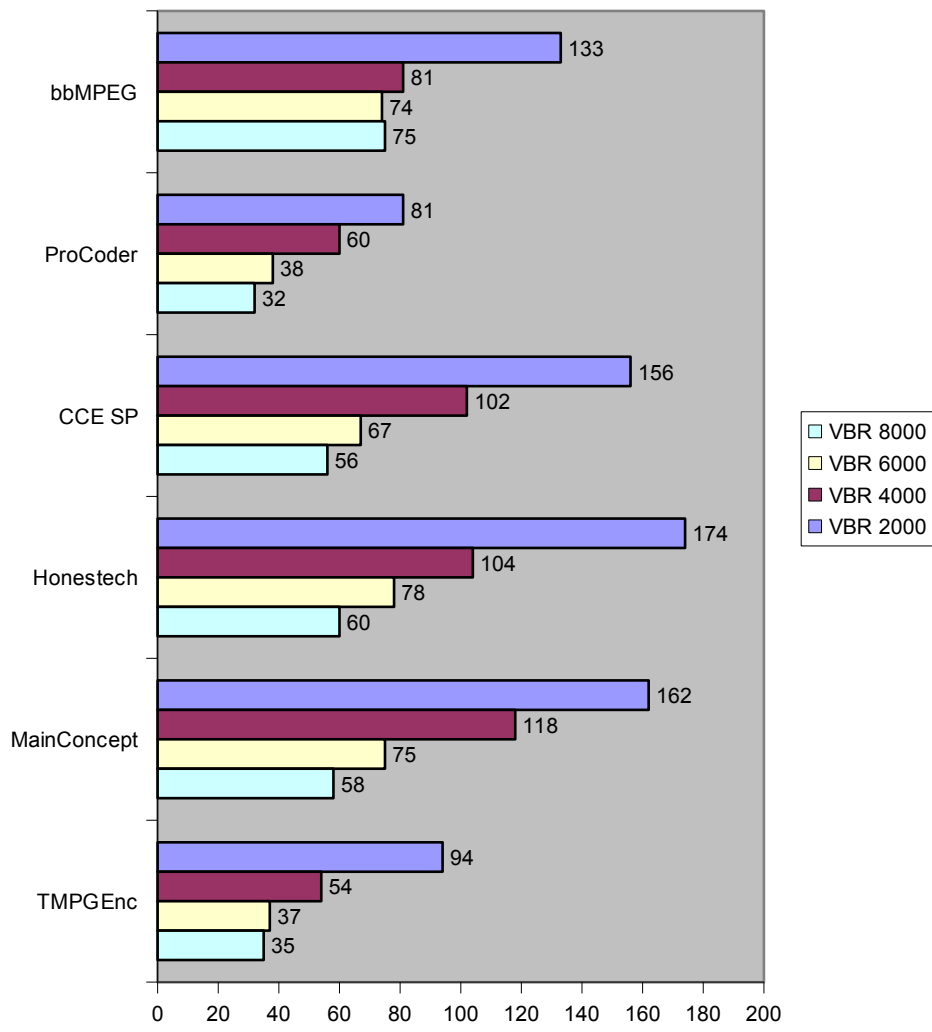
VBR Difference 5 - Mean



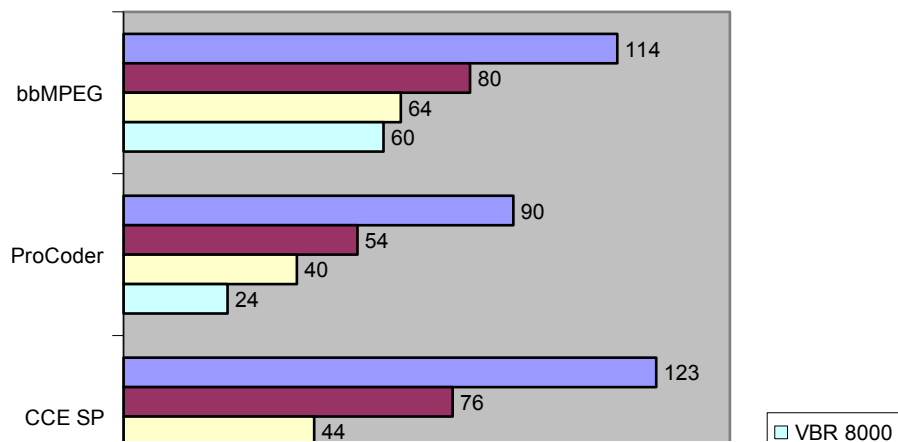


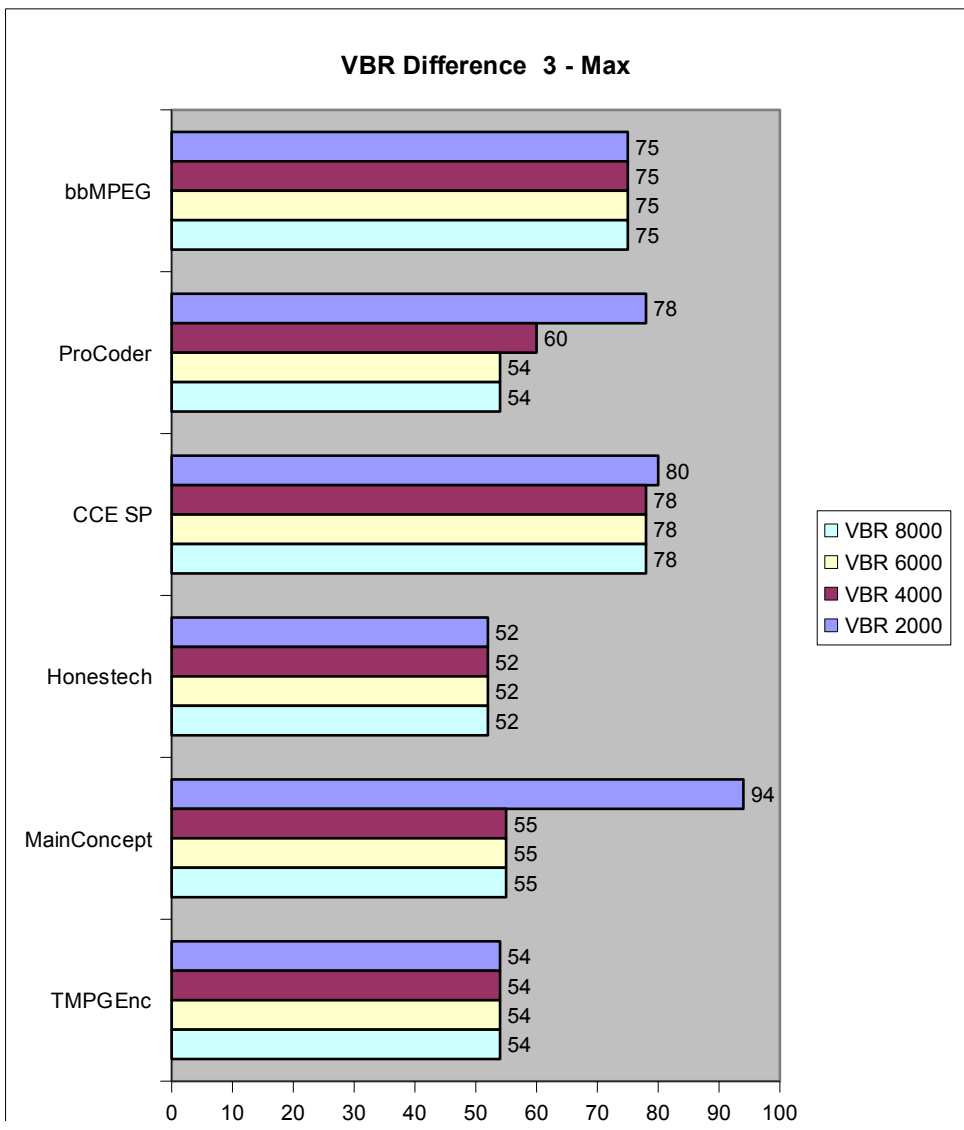
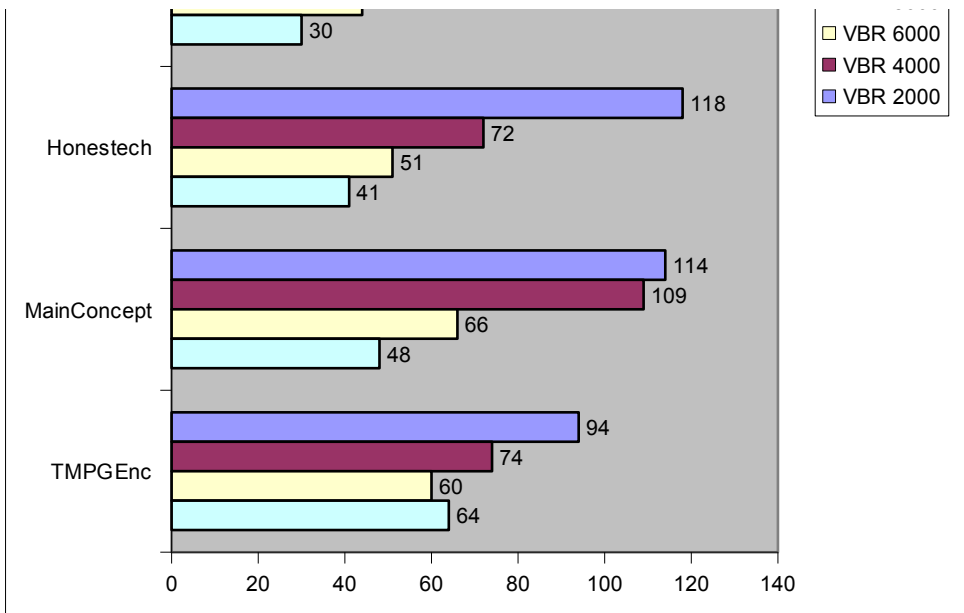
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VBR Difference 1 - Max

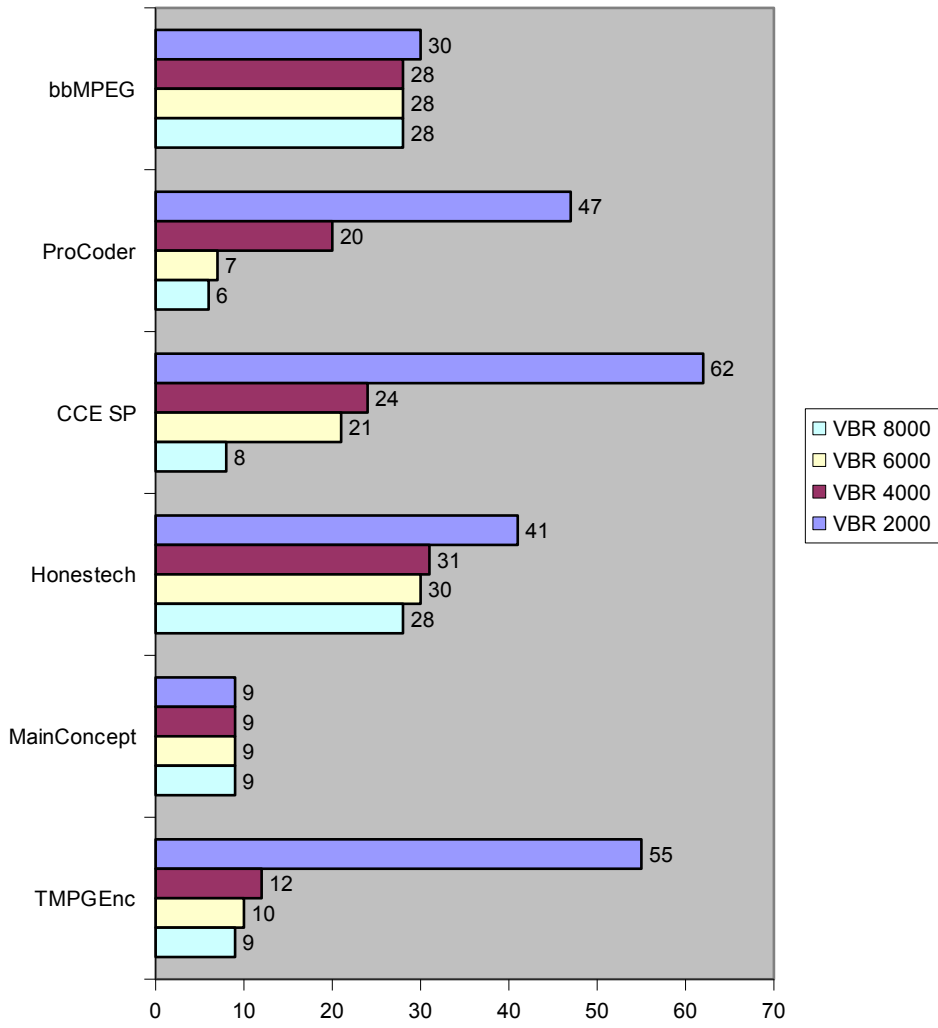


VBR Difference 2 - Max

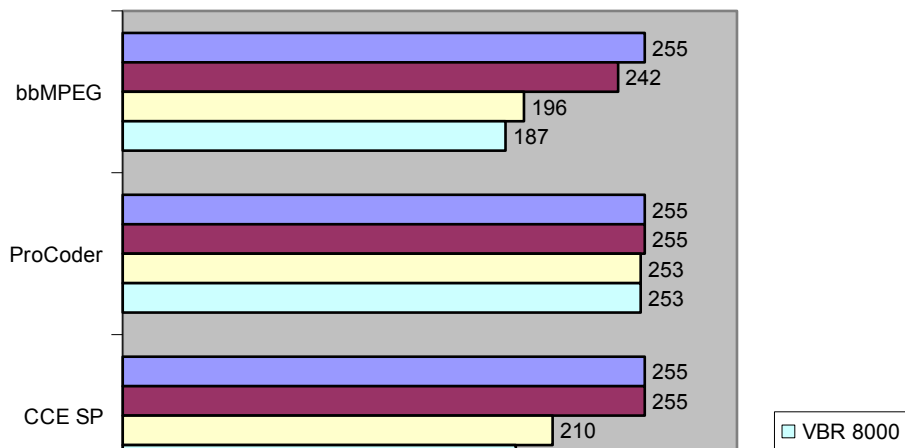


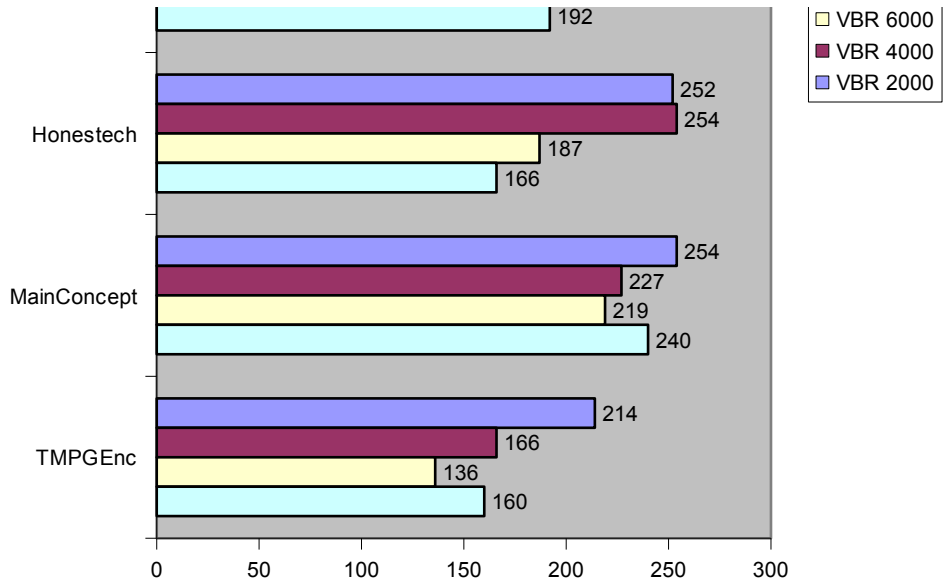


VBR Difference 4 - Max

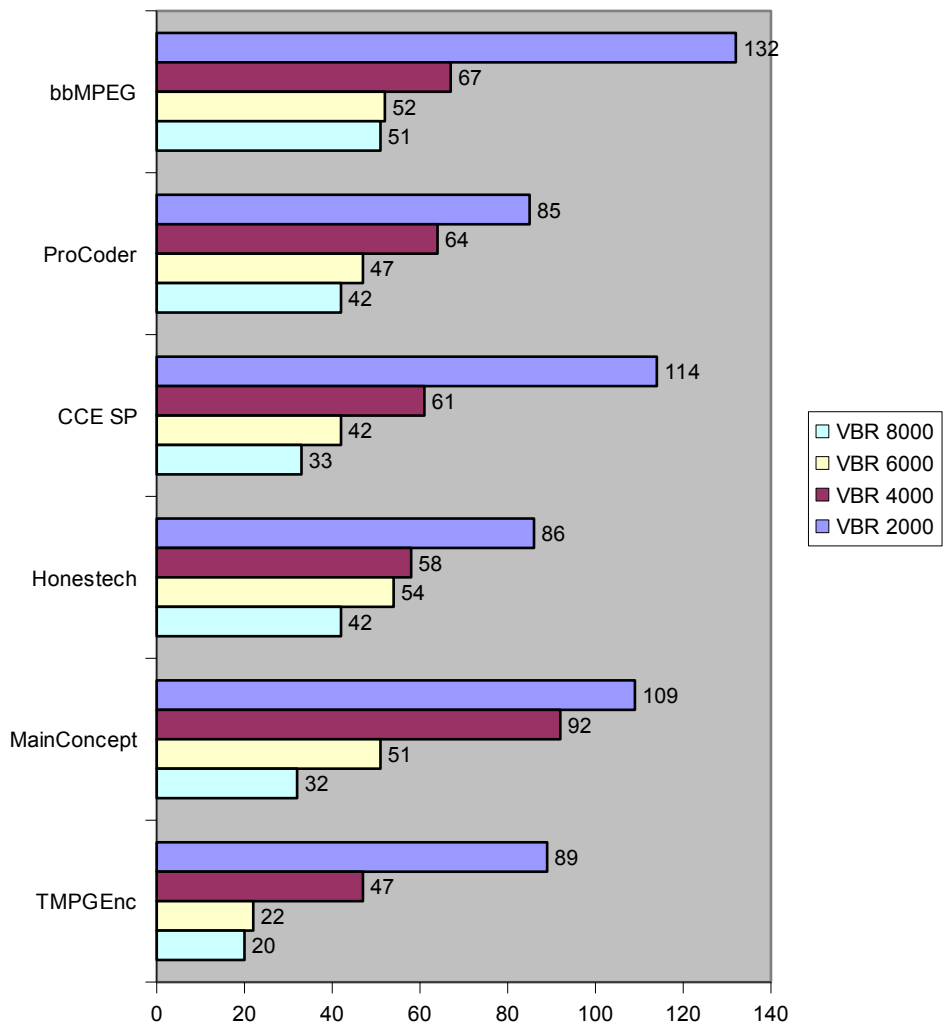


VBR Difference 5 - Max





VBR Difference 6 - Max



Speed for AMD Athlon XP 2800+
 DV AVI file without audio 10 minutes (15000 frames)

Encoder	Settings	Time
bbMPEG	Low	0:56:33
	High	1:34:51
ProCoder	High speed	0:13:48
	High quality	0:31:25
	Highest quality	0:35:19
	Mastering quality	0:54:13
CCE		0:07:55
Honestech	Quick	0:09:11
	Normal	0:24:38
	Good	0:29:51
	Best	7:34:53
MC	Low	0:04:30
	High	0:26:33
TMPGEnc	Lowest quality	0:14:55
	Low quality	0:16:34
	Normal	0:22:44
	High quality	0:34:46
	Highest quality	1:02:57
	Motion estimate search	0:18:34



Encoding speed

