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Métodos de Estimação de Movimento (ME)	RDO	GOP	BDPSNR-Y (dB)	BDPSNR-U (dB)	BDPSNR- V(dB)	BDBR (%)	Redução de tempo total (%)	Redução de tempo de ME (%)
Proposto_vs_FS	0	IPPP	-0,158	-0,031	-0,038	12,609	82,913	87,061
Proposto_vs_JM98	0	IPPP	-0,292	-0,151	-0,028	10,84	82,91	80,98
Proposto_vs_P021	0	IPPP	-0,122	-0,065	-0,085	12,681	4,594	8,521
Proposto_vs_FS	0	IBBP	-0,290	-0,153	-0,111	21,44	90,83	94,24
Proposto_vs_JM98	0	IBBP	-0,243	-0,195	-0,163	18,302	79,792	84,148
Proposto_vs_P021	0	IBBP	-0,224	-0,223	-0,193	19,04	5,95	10,47
Proposto_vs_FS	1	IPPP	-0,085	0,009	0,012	0,429	65,280	93,869
Proposto_vs_JM98	1	IPPP	0,044	0,051	0,049	1,43	70,81	86,53
Proposto_vs_P021	1	IPPP	-0,050	0,014	0,009	-0,207	0,809	10,160
Proposto_vs_FS	2	IPPP	-0,072	0,008	0,012	0,45	65,69	93,93
Proposto_vs_JM98	2	IPPP	0,081	0,055	0,054	1,669	70,328	86,786
Proposto_vs_P021	2	IPPP	-0,041	0,012	0,011	0,19	1,58	11,92

Tabela 7- Sumário dos resultados das comparações

Full Search																										
Sequence	#img	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x6Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0.0	8	8	8	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	31,77	35,97	38,02	7432	31624	168	39224	82,297	76,491
akiyo	100	0.0	18	18	18	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	38,58	40,91	41,65	17928	123920	168	142016	80,843	75,415
akiyo	100	0.0	28	28	28	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	45,74	47,05	47,74	39752	511816	168	551736	81,249	77,041
akiyo	100	0.0	38	38	38	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	52,35	52,88	53,3	82424	1866608	168	1949200	81,482	77,335
foreman	100	0.0	8	8	8	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	51,09	51,47	51,74	108592	7306480	168	7416240	82,456	76,439
foreman	100	0.0	18	18	18	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	43,28	45,17	46,17	53592	2641640	168	2695400	83,455	77,974
foreman	100	0.0	28	28	28	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	35,87	40,2	40,89	22184	742936	168	7652288	80,923	76,532
foreman	100	0.0	38	38	38	176x144	30	0	OFF	ON	32	1	10	CAVLC	0	OFF	0	29,17	37,3	37,3	8576	213504	168	222248	83,097	78,66
container	100	0.0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,1	51,26	51,45	117136	8534632	168	8651936	79,769	73,23
container	100	0.0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,24	43,93	44,35	59880	3429912	168	3489960	79,544	75,094
container	100	0.0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,97	36,39	37,63	26464	1154512	168	1181144	80,487	75,657
container	100	0.0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,14	31,52	33,92	9944	460408	168	470520	80,9	76,307
grandma	100	0.0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,13	50,82	50,91	118176	8781400	168	8899744	83,826	77,627
grandma	100	0.0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,67	42,7	43,12	57848	3348384	168	3406400	79,451	74,922
grandma	100	0.0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	36,07	35,66	36,57	22896	1066928	168	1089992	80,674	75,834
grandma	100	0.0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,83	31,55	32,81	7528	351896	168	359592	82,814	78,84
mother_daughter	100	0.0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,4	51,07	51,28	92488	7448384	168	7541040	83,395	76,846
mother_daughter	100	0.0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,42	43,66	44,55	43568	2822176	168	2865912	79,863	74,697
mother_daughter	100	0.0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,21	36,64	38,64	17136	914680	168	931984	80,44	75,902
mother_daughter	100	0.0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,65	32,27	35,3	6136	330008	168	336312	82,714	78,513
suzie	100	0.0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,13	51,51	51,54	102544	4018936	168	4119648	42,268	39,251
suzie	100	0.0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,95	45,27	45,56	48032	147008	168	1519208	39,904	37,237
suzie	100	0.0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,05	39,33	40,24	18488	424272	168	442928	40,122	37,218
suzie	100	0.0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,97	35,48	37,47	6296	144824	168	151288	41,641	39,345
container	48	0.0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,12	51,65	52,02	436848	10933660	168	11369576	151,434	138,788
container	48	0.0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,29	47,01	47,35	213976	2882648	168	3096792	147,745	137,697
container	48	0.0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,92	41,84	41,74	87632	415408	168	503208	148,828	139,916
container	48	0.0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,94	38,15	37,89	30640	59600	168	590408	156,049	146,292
akiyo	100	0.0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,17	51,05	51,05	152320	12997856	168	13150344	84,53	78,144
akiyo	100	0.0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,32	43,4	43,42	78592	6826032	168	6904792	84,218	79,491
akiyo	100	0.0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,7	35,25	35,09	39104	3221168	168	3260440	86,456	80,609
akiyo	100	0.0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,89	29,87	30,31	18360	1388600	168	1407128	86,043	80,844
coastguard	100	0.0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,99	51,11	51,16	209224	14924328	168	15133720	83,248	77,037
coastguard	100	0.0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,1	43,96	44,72	128224	8187080	168	8315472	82,822	77,639
coastguard	100	0.0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,22	37,85	39,52	59696	3464400	168	3524264	84,278	79,563
coastguard	100	0.0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,5	34,38	36,47	21608	1207544	168	1229320	87,106	82,02
hall_monitor	100	0.0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,97	50,93	50,95	221336	15599312	168	15820816	83,439	77,253
hall_monitor	100	0.0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,99	42,66	42,79	137760	8290392	168	8428320	82,609	78,036
hall_monitor	100	0.0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,48	35,23	35,49	78992	3936904	168	4016064	84,086	79,357
hall_monitor	100	0.0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	29,84	31,22	31,41	41088	1700952	168	1742208	87,232	81,919
husky	100	0.0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,86	50,82	50,84	256872	23292368	168	23549408	83,801	77,541
husky	100	0.0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,29	42,42	42,39	170344	15140856	168	15311368	84,013	78,762
husky	100	0.0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	34,13	34,91	34,98	97136	8676288	168	8773592	84,306	79,042
husky	100	0.0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	26,84	30,44	30,74	41808	3601912	168	3643888	87,012	82,506
mobile	100	0.0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,74	50,68	50,63	298184	24815152	168	25113504	82,926	76,709
mobile	100	0.0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	41,86	41,67	41,51	201280	16031408	168	16232856	82,141	76,454
mobile	100	0.0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,23	33,02	32,69	125192	8832080	168	8957440	83,009	77,519
mobile	100	0.0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	25,48	27,09	26,81	59648	3625504	168	3685320	85,185	80,665

Tabela 8.1-Resultado da simulação do método Full Search para RDO=0 e IPPP

Anexos

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Proposto																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0/0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	31,79	36,03	37,95	7432	35768	168	43368	5,907	1,583
akiyo	100	0/0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	38,47	40,91	41,79	17928	429568	168	21568	5,187	1,573
akiyo	100	0/0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	45,63	47,08	47,7	39752	858968	168	898888	5,578	2,006
akiyo	100	0/0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	52,33	52,92	53,28	82424	2193592	168	2276184	6,531	3,481
foreman	100	0/0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	51,05	51,51	51,81	109592	7105040	168	7214800	8,847	4,702
foreman	100	0/0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	43,18	45,12	46,29	53592	2574784	168	2628544	8,588	4,931
foreman	100	0/0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	35,73	40,19	40,94	22184	763304	168	785656	8,692	5,058
foreman	100	0/0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	29,02	37,25	37,36	8576	221704	168	230448	9,253	5,738
container	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	50,97	51,31	51,51	117136	8956800	168	9074104	8,329	3,398
container	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	42,92	43,97	44,39	59880	3761536	168	3821584	7,564	3,341
container	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,73	36,38	37,57	26464	1465384	168	1492016	7,59	3,954
container	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	28,91	31,48	33,88	9944	686728	168	696840	8,212	4,917
grandma	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,01	50,82	50,91	118176	9093728	168	9212072	8,457	3,398
grandma	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,44	42,7	43,12	57848	3623408	168	3681424	7,472	3,526
grandma	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,77	35,51	36,37	22896	1379760	168	1402824	7,841	4,038
grandma	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,51	31,42	32,64	7528	593488	168	601184	8,703	5,574
mother_daughter	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,22	51,1	51,32	92488	7695216	168	7787872	8,953	3,716
mother_daughter	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,05	43,71	44,64	43568	3142776	168	3186512	8,533	4,334
mother_daughter	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,68	36,64	38,68	17136	1199208	168	1216512	7,876	4,459
mother_daughter	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,42	32,04	35,06	6136	531424	168	537728	8,358	4,843
suzie	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,97	51,53	51,58	102544	4219296	168	4322008	4,628	2,197
suzie	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,44	45,29	45,6	48032	1685472	168	1733672	4,153	2,357
suzie	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,55	39,22	40,2	18488	574728	168	593384	4,231	2,394
suzie	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,73	35,46	37,29	6296	226816	168	233280	4,376	2,593
container	48	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	50,97	51,63	51,98	435848	12000128	168	12436144	13,393	4,734
container	48	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	42,84	46,99	47,33	213976	3685512	168	3899656	12,028	4,713
container	48	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,72	41,82	41,66	87632	1069808	168	1157608	12,42	5,139
container	48	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,88	38,12	37,82	30640	565496	168	596304	12,658	6,299
akiyo	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,17	51,05	51,05	152320	13010392	168	13162880	22,966	18,414
akiyo	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,3	43,4	43,43	78592	6863024	168	6941784	21,855	17,818
akiyo	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,67	35,26	35,08	39104	3272112	168	3311384	21,638	17,724
akiyo	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,87	29,86	30,3	18360	1396920	168	1415448	21,38	18,037
coastguard	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,96	51,09	51,17	209224	15531408	168	15740800	24,653	19,523
coastguard	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,03	43,88	44,54	128224	8641616	168	8770008	23,448	19,047
coastguard	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,17	37,74	39,26	59696	3754952	168	3814816	23,413	19,254
coastguard	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,45	34,36	36,47	21608	1272944	168	1294720	23,032	19,422
hall_monitor	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,96	50,92	50,95	221336	15870208	168	16091712	21,509	16,01
hall_monitor	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,96	42,66	42,79	137760	8554096	168	8692024	19,952	16,228
hall_monitor	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,41	35,23	35,49	78992	4148520	168	4227680	19,89	16,257
hall_monitor	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	29,75	31,21	31,41	41088	1791720	168	1832976	19,902	16,068
husky	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,85	50,78	50,78	256872	24369504	168	24626544	26,604	21,103
husky	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,23	42,37	42,34	170344	15947848	168	16118360	25,69	20,761
husky	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,94	34,73	34,75	97136	9316840	168	9414144	25,731	21,364
husky	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	26,56	30,31	30,55	41808	4210272	168	4252248	25,546	21,4
mobile	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,72	50,67	50,61	298184	26101008	168	26399360	25,726	19,926
mobile	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	41,8	41,61	41,44	201280	17106880	168	17308328	24,588	19,825
mobile	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,08	32,9	32,56	125192	9753464	168	9878824	24,399	19,932
mobile	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	25,24	26,96	26,65	59648	4337336	168	4397152	24,11	20,133

Tabela 8.2- Resultado da simulação do método Proposto para RDO=0 e IPPP

DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY	BD SNRU	BD SNRV	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time Reduction	Me Time Reduction	
akiyo	100	0/0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	0,020	0,060	-0,070	0,000	13,104	0,000	10,565	92,82	97,93
akiyo	100	0/0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,110	0,000	0,140	0,000	246,649	0,000	-84,813	93,58	97,91
akiyo	100	0/0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,110	0,030	-0,040	0,000	67,828	0,000	62,920	93,13	97,40
akiyo	100	0/0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,020	0,040	-0,020	0,000	17,518	0,000	16,775	91,98	95,50
foreman	100	0/0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,040	0,040	0,070	0,000	-2,757	0,000	-2,716	89,27	93,85
foreman	100	0/0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,100	-0,060	0,120	0,000	-2,531	0,000	-2,480	89,71	93,88
foreman	100	0/0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,140	-0,010	0,060	0,000	2,742	0,000	-89,733	89,26	93,39
foreman	100	0/0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF		0	-0,150	-0,060	0,060	0,000	3,841	0,000	3,690	88,86	92,71
container	100	0/0		8	8	8 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,130	0,060	0,060	0,000	4,947	0,000	4,879	89,56	95,36
container	100	0/0		18	18	18 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,320	0,040	0,040	0,000	9,669	0,000	9,502	90,49	95,55
container	100	0/0		28	28	28 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,240	-0,010	-0,060	0,000	26,927	0,000	26,320	90,57	94,77
container	100	0/0		38	38	38 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,230	-0,040	-0,040	0,000	49,156	0,000	48,100	89,85	93,56
grandma	100	0/0		8	8	8 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,120	0,000	0,000	0,000	3,557	0,000	3,509	89,91	95,62
grandma	100	0/0		18	18	18 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,230	0,000	0,000	0,000	8,214	0,000	8,074	90,60	95,29
grandma	100	0/0		28	28	28 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,300	-0,150	-0,200	0,000	29,321	0,000	28,700	90,28	94,68
grandma	100	0/0		38	38	38 176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,320	-0,130	-0,170	0,000	68,654	0,000	67,185	89,49	92,93
mother_daughter	100	0/0		8	8	8 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,180	0,030	0,040	0,000	3,314	0,000	3,273	89,26	95,16
mother_daughter	100	0/0		18	18	18 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,370	0,060	0,090	0,000	11,360	0,000	11,187	89,32	94,20
mother_daughter	100	0/0		28	28	28 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,530	0,000	0,040	0,000	31,107	0,000	30,529	90,21	94,13
mother_daughter	100	0/0		38	38	38 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,230	-0,230	-0,240	0,000	61,034	0,000	59,890	89,90	93,83
suzie	100	0/0		8	8	8 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,160	0,020	0,040	0,000	5,038	0,000	4,912	89,05	94,40
suzie	100	0/0		18	18	18 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,510	0,020	0,040	0,000	1046,517	0,000	14,117	89,59	93,67
suzie	100	0/0		28	28	28 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,500	-0,110	-0,040	0,000	35,462	0,000	33,969	89,45	93,57
suzie	100	0/0		38	38	38 176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,240	-0,020	-0,180	0,000	56,615	0,000	54,196	89,49	93,41
container	48	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,150	-0,020	-0,040	0,000	9,755	0,000	9,381	91,16	96,59
container	48	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,450	-0,020	-0,020	0,000	27,852	0,000	25,926	91,86	96,58
container	48	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,200	-0,020	-0,080	0,000	157,532	0,000	130,046	91,65	96,33
container	48	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF		0	-0,060	-0,030	-0,070	0,000	848,819	0,000	0,999	91,89	95,69
akiyo	100	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	0,000	0,000	0,000	0,000	0,096	0,000	0,095	72,83	76,44
akiyo	100	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,020	0,000	0,010	0,000	0,542	0,000	0,536	74,05	77,58
akiyo	100	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,030	0,010	-0,010	0,000	1,582	0,000	1,562	74,97	78,01
akiyo	100	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,020	-0,010	-0,010	0,000	0,599	0,000	0,591	75,15	77,69
coastguard	100	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,030	-0,020	0,010	0,000	4,068	0,000	4,011	70,39	74,66
coastguard	100	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,070	-0,080	-0,180	0,000	5,552	0,000	5,466	71,69	75,47
coastguard	100	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,060	-0,110	-0,260	0,000	8,387	0,000	8,244	72,22	75,80
coastguard	100	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,060	-0,020	0,000	0,000	5,416	0,000	5,320	73,56	76,32
hall_monitor	100	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,010	-0,010	0,000	0,000	1,737	0,000	1,712	74,22	79,28
hall_monitor	100	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,030	0,000	0,000	0,000	3,181	0,000	3,129	75,85	79,20
hall_monitor	100	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,070	0,000	0,000	0,000	5,375	0,000	5,269	76,35	79,51
hall_monitor	100	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,080	-0,010	0,000	0,000	5,336	0,000	5,210	77,18	80,39
husky	100	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,010	-0,040	-0,060	0,000	4,624	0,000	4,574	68,25	72,78
husky	100	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,060	-0,060	-0,060	0,000	5,330	0,000	5,271	69,42	73,64
husky	100	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,190	-0,180	-0,230	0,000	7,383	0,000	7,301	69,48	72,97
husky	100	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,280	-0,130	-0,190	0,000	16,890	0,000	16,695	70,64	74,06
mobile	100	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,020	-0,010	-0,020	0,000	5,182	0,000	5,120	68,98	74,02
mobile	100	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,060	-0,060	-0,070	0,000	6,709	0,000	6,625	70,07	74,07
mobile	100	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF		0	-0,150	-0,120	-0,130	0,000	10,432	0,000	10,286	70,61	74,29
mobile	100	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF											

Tabela 8.3-Resultado da comparação entre o método Full Search e Proposto para RDO=0 e IPPP

JM98																											
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Ti	Me Tin	
akiyo	100	0/0		8	8	8 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	31,75	36,03	31,74	7432	31216	160	38808	26,657	15,587
akiyo	100	0/0		18	18	18 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	38,54	40,89	41,64	17920	123160	160	141240	27,977	17,499
akiyo	100	0/0		28	28	28 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	45,72	47,1	47,77	39744	507208	160	547112	28,345	18,084
akiyo	100	0/0		38	38	38 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	52,35	52,91	53,31	82424	1855096	160	1937680	29,769	19,833
foreman	100	0/0		8	8	8 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	51,08	51,5	51,79	109592	7099608	160	7209360	46,421	33,617
foreman	100	0/0		18	18	18 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	43,24	45,12	46,29	53584	2548800	160	2602544	44,725	32,361
foreman	100	0/0		28	28	28 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	35,8	40,22	40,94	22184	738040	160	760384	44,358	32,823
foreman	100	0/0		38	38	38 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	29,1	37,31	37,26	8576	213248	160	221984	44,852	34,338
container	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	51,08	51,32	51,51	117136	8444960	160	8562256	41,531	28,021
container	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	43,21	44,03	44,47	59880	3375352	160	3435392	38,764	26,648
container	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	35,93	36,5	37,76	26464	1134104	160	1160728	39,987	28,853
container	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	29,13	31,6	34,03	9936	462048	160	472144	40,858	30,76
grandma	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	51,11	50,83	50,94	118184	8630864	160	8749208	44,594	30,304
grandma	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	43,67	42,78	43,2	57848	3268920	160	3326928	39,751	28,562
grandma	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	36,05	35,67	36,61	22896	1057048	160	1080104	41,953	30,763
grandma	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	29,78	31,55	32,82	7520	351864	160	359544	44,349	33,89
mother_daughter	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	51,37	51,13	51,32	92480	7262048	160	7354696	44,426	30,854
mother_daughter	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	44,39	43,75	44,67	43568	2751640	160	2795368	41,11	29,748
mother_daughter	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	37,16	36,7	38,68	17128	907928	160	925216	41,161	30,362
mother_daughter	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30,64	32,31	35,3	6136	330616	160	336912	42,452	32,141
suzie	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	51,1	51,57	51,62	102552	3912688	160	4015400	24,738	17,787
suzie	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	43,9	45,37	45,67	48032	1435016	160	1483208	23,299	17,671
suzie	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	37,01	39,39	40,35	18488	418368	160	437016	23,248	17,693
suzie	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30,91	35,46	37,48	6296	144784	160	151240	23,519	18,676
container	48	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	51,1	51,67	52,09	435840	10885592	168	11321600	54,69	29,167
container	48	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	43,26	47,02	47,36	213976	2878208	168	3092352	52,641	29,961
container	48	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	35,9	41,86	41,71	87616	418600	168	1006384	53,031	32,009
container	48	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	29,94	38,17	37,87	30632	58840	168	589640	54,94	35,484
akiyo	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	51,17	51,05	51,05	152296	12868616	160	13021072	87,44	72,626
akiyo	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	44,32	43,41	43,43	78592	6750520	160	6829272	85,159	72,247
akiyo	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	37,7	35,26	35,1	39096	3205160	160	3244416	82,782	71,13
akiyo	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30,9	29,87	30,31	18352	1386976	160	1405488	77,389	66,015
coastguard	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50,99	51,11	51,17	209208	14707552	160	14916920	92,838	78,415
coastguard	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	43,1	43,97	44,73	128224	8076536	160	8204920	91,954	78,54
coastguard	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	36,22	37,85	39,52	59688	3446800	160	3506648	88,32	76,77
coastguard	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30,5	34,37	36,47	21608	1207008	160	1228776	83,71	72,351
hall_monitor	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50,97	50,92	50,96	221344	15461496	160	15683000	89,391	74,942
hall_monitor	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	42,99	42,67	42,8	137744	8202704	160	8340608	86,998	74,545
hall_monitor	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	36,49	35,23	35,49	78992	3908344	160	3987496	84,565	72,332
hall_monitor	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	29,84	31,22	31,41	41088	1703800	160	1745048	79,175	67,885
husky	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50,86	50,84	50,85	256856	22618864	160	22875880	87,521	72,471
husky	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	42,29	42,45	42,42	170344	14568632	160	14739136	86,579	72,569
husky	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	34,1	34,94	35,01	97144	8338200	160	8435504	86,587	73,936
husky	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	34,1	34,94	35,01	97144	8338200	160	8435504	86,578	74,012
mobile	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50,74	50,69	50,64	298192	24256456	160	24554800	86,644	70,931
mobile	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	41,86	41,68	41,53	201272	15521864	160	15723296	85,049	70,476
mobile	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	33,22	33,05	32,72	125184	8527776	160	8653120	84,873	71,671
mobile	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	25,48	27,11	26,82	59648	3685608	160	3645416	81,654	69,801

Tabela 9.1- Resultado da simulação do método JM 9.8 para RDO=0 e IPPP

PROPOSTO																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0/0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	31,79	36,03	37,95	7432	35768	168	19368	5,907	1,583
akiyo	100	0/0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	38,47	40,91	41,79	17928	429568	168	21568	5,187	1,573
akiyo	100	0/0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	45,63	47,08	47,7	39752	858968	168	898888	5,578	2,006
akiyo	100	0/0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	52,33	52,92	53,28	82424	2193592	168	2276184	6,531	3,481
foreman	100	0/0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	51,05	51,51	51,81	109592	7105040	168	7214800	8,847	4,702
foreman	100	0/0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	43,18	45,12	46,29	53592	2574784	168	2628544	8,588	4,931
foreman	100	0/0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	35,73	40,19	40,94	22184	763304	168	785656	8,692	5,058
foreman	100	0/0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	29,02	37,25	37,36	8576	221704	168	230448	9,253	5,738
container	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	50,97	51,31	51,51	117136	8956800	168	9074104	8,329	3,398
container	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	42,92	43,97	44,39	59880	3761536	168	3821584	7,564	3,341
container	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,73	36,38	37,57	26464	1465384	168	1492016	7,59	3,954
container	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	28,91	31,48	33,88	9944	686728	168	696840	8,212	4,917
grandma	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,01	50,82	50,91	118176	9093728	168	9212072	8,457	3,398
grandma	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,44	42,7	43,12	57848	3623408	168	3681424	7,472	3,526
grandma	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,77	35,51	36,37	22896	1379760	168	1402824	7,841	4,038
grandma	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,51	31,42	32,64	7528	593488	168	601184	8,703	5,574
mother_daughter	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,22	51,1	51,32	92488	7695216	168	7787872	8,953	3,716
mother_daughter	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,05	43,71	44,64	43668	3142776	168	3186512	8,533	4,334
mother_daughter	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,68	36,64	38,68	17136	1199208	168	1216512	7,876	4,459
mother_daughter	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,42	32,04	35,06	6136	531424	168	537728	8,358	4,843
suzie	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,97	51,53	51,58	102544	4219296	168	4322008	4,628	2,197
suzie	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,44	45,29	45,6	48032	1685472	168	1733672	4,153	2,357
suzie	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,55	39,22	40,2	18488	574728	168	593384	4,231	2,394
suzie	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,73	35,46	37,29	6296	226816	168	233280	4,376	2,593
container	48	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	50,97	51,63	51,98	435848	12000128	168	12436144	13,393	4,734
container	48	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	42,84	46,99	47,33	213976	3685512	168	3899656	12,028	4,713
container	48	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,72	41,82	41,66	87632	1069808	168	1157608	12,42	5,139
container	48	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,88	38,12	37,82	30640	565496	168	596304	12,658	6,299
akiyo	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,17	51,05	51,05	152320	13010392	168	13162880	22,966	18,414
akiyo	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,3	43,4	43,43	78592	6863024	168	6941784	21,855	17,818
akiyo	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,67	35,26	35,08	39104	3272112	168	3311384	21,638	17,724
akiyo	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,87	29,86	30,3	18360	1396920	168	1415448	21,38	18,037
coastguard	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,96	51,09	51,17	209224	15531408	168	15740800	24,653	19,523
coastguard	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,03	43,88	44,54	128224	8641616	168	8770008	23,448	19,047
coastguard	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,17	37,74	39,26	59696	3754952	168	3814816	23,413	19,254
coastguard	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,45	34,36	36,47	21608	1272944	168	1294720	23,032	19,422
hall_monitor	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,96	50,92	50,95	221336	15870208	168	16091712	21,509	16,01
hall_monitor	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,96	42,66	42,79	137760	8554096	168	8692024	19,952	16,228
hall_monitor	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,41	35,23	35,49	78992	4148520	168	4227680	19,89	16,257
hall_monitor	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	29,75	31,21	31,41	41088	1791720	168	1832976	19,902	16,068
husky	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,85	50,78	50,78	258872	24369504	168	24626544	26,804	21,103
husky	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,23	42,37	42,34	170344	15947848	168	16118360	25,69	20,761
husky	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,94	34,73	34,75	97136	9316840	168	9414144	25,731	21,364
husky	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	26,56	30,31	30,55	41808	4210272	168	4252248	25,546	21,4
mobile	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,72	50,67	50,61	298184	26101008	168	26399360	25,726	19,926
mobile	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	41,8	41,61	41,44	201280	17106880	168	17308328	24,588	19,825
mobile	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,08	32,9	32,56	125192	9753464	168	9878824	24,399	19,932
mobile	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	25,24	26,96	26,65	59648	4337336	168	4397152	24,11	20,133

Tabela 9.2- Resultado da simulação do método Proposto para RDO=0 e IPPP

DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY	BD SNRU	BD SNRV	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time	
akiyo	100	0/0		8	8	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	0,040	0,000	6,210	0,000	14,582	5,000	-50,093	77,84	89,84
akiyo	100	0/0		18	18	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,070	0,020	0,150	0,045	248,789	5,000	-84,730	81,46	91,01
akiyo	100	0/0		28	28	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,090	-0,020	-0,070	0,020	69,352	5,000	64,297	80,32	88,91
akiyo	100	0/0		38	38	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,020	0,010	-0,030	0,000	18,247	5,000	17,470	78,06	82,45
foreman	100	0/0		8	8	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,030	0,010	0,020	0,000	0,077	5,000	0,075	80,94	86,01
foreman	100	0/0		18	18	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,060	0,000	0,000	0,015	1,019	5,000	0,999	80,80	84,76
foreman	100	0/0		28	28	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,070	-0,030	0,000	0,000	3,423	5,000	3,324	80,40	84,59
foreman	100	0/0		38	38	176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	-0,080	-0,060	0,100	0,000	3,965	5,000	3,613	79,37	83,29
container	100	0/0		8	8	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,110	-0,010	0,000	0,000	6,061	5,000	5,978	79,95	87,87
container	100	0/0		18	18	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,290	-0,060	-0,080	0,000	11,441	5,000	11,242	80,49	87,46
container	100	0/0		28	28	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,200	-0,120	-0,190	0,000	29,211	5,000	28,541	81,02	86,30
container	100	0/0		38	38	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,220	-0,120	-0,150	0,081	48,627	5,000	47,591	79,90	84,01
grandma	100	0/0		8	8	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,100	-0,010	-0,030	-0,007	5,363	5,000	5,290	81,04	88,79
grandma	100	0/0		18	18	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,230	-0,080	-0,080	0,000	10,844	5,000	10,655	81,20	87,65
grandma	100	0/0		28	28	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,280	-0,160	-0,240	0,000	30,530	5,000	29,879	81,31	86,87
grandma	100	0/0		38	38	176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,270	-0,130	-0,180	0,106	68,670	5,000	67,207	80,38	83,55
mother_daughter	100	0/0		8	8	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,150	-0,030	0,000	0,009	5,965	5,000	5,890	79,85	87,96
mother_daughter	100	0/0		18	18	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,340	-0,040	-0,030	0,000	14,215	5,000	13,993	79,24	85,43
mother_daughter	100	0/0		28	28	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,480	-0,060	0,000	0,047	32,082	5,000	31,484	80,87	85,31
mother_daughter	100	0/0		38	38	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,220	-0,270	-0,240	0,000	60,738	5,000	59,605	80,31	84,93
suzie	100	0/0		8	8	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,130	-0,040	-0,040	-0,008	7,836	5,000	7,636	81,29	87,65
suzie	100	0/0		18	18	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,460	-0,080	-0,070	0,000	17,453	5,000	16,887	82,18	86,66
suzie	100	0/0		28	28	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,460	-0,170	-0,150	0,000	37,374	5,000	35,781	81,80	86,47
suzie	100	0/0		38	38	176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,180	0,000	-0,190	0,000	56,658	5,000	54,245	81,39	86,12
container	48	0/0		8	8	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,130	-0,040	-0,110	0,002	10,239	0,000	9,844	75,51	83,77
container	48	0/0		18	18	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,420	-0,030	-0,030	0,000	28,049	0,000	26,106	77,15	84,27
container	48	0/0		28	28	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,180	-0,040	-0,050	0,018	155,588	0,000	15,026	76,58	83,95
container	48	0/0		38	38	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,060	-0,050	-0,050	0,026	861,074	0,000	1,130	76,96	82,25
akiyo	100	0/0		8	8	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	0,000	0,000	0,000	0,016	1,102	5,000	1,089	73,74	74,65
akiyo	100	0/0		18	18	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,020	-0,010	0,000	0,000	1,667	5,000	1,647	74,34	75,34
akiyo	100	0/0		28	28	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,030	0,000	-0,020	0,020	2,089	5,000	2,064	73,86	75,08
akiyo	100	0/0		38	38	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,030	-0,010	-0,010	0,044	0,717	5,000	0,709	72,37	72,68
coastguard	100	0/0		8	8	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,030	-0,020	0,000	0,008	5,602	5,000	5,523	73,45	75,10
coastguard	100	0/0		18	18	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,070	-0,090	-0,190	0,000	6,997	5,000	6,887	74,50	75,75
coastguard	100	0/0		28	28	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,050	-0,110	-0,260	0,013	8,940	5,000	8,788	73,49	74,92
coastguard	100	0/0		38	38	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,050	-0,010	0,000	0,000	5,463	5,000	5,367	72,49	73,16
hall_monitor	100	0/0		8	8	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,010	0,000	-0,010	-0,004	2,643	5,000	2,606	75,94	78,64
hall_monitor	100	0/0		18	18	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,030	-0,010	-0,010	0,012	4,284	5,000	4,213	77,07	78,23
hall_monitor	100	0/0		28	28	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,080	0,000	0,000	0,000	6,145	5,000	6,023	76,48	77,52
hall_monitor	100	0/0		38	38	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,090	-0,010	0,000	0,000	5,160	5,000	5,039	74,86	76,33
husky	100	0/0		8	8	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,010	-0,060	-0,070	0,006	7,740	5,000	7,653	69,60	70,88
husky	100	0/0		18	18	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,060	-0,080	-0,080	0,000	9,467	5,000	9,368	70,33	71,39
husky	100	0/0		28	28	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,160	-0,210	-0,260	-0,008	11,737	5,000	11,601	70,28	71,10
husky	100	0/0		38	38	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-7,540	-4,630	-4,460	-56,963	-49,506	5,000	-49,591	70,49	71,09
mobile	100	0/0		8	8	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,020	-0,020	-0,030	-0,003	7,604	5,000	7,512	70,31	71,91
mobile	100	0/0		18	18	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,060	-0,070	-0,090	0,004	10,212	5,000	10,081	71,09	71,87
mobile	100	0/0		28	28	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,140	-0,150	-0,160	0,006	14,373	5,000	14,165	71,25	72,19
mobile	100	0/0		38	38	352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	-0,240	-0,150	-0,170	0,000	20,965	5,000	20,621	70,47	71,16
																		BD SNRY	BD SNRU	BD SNRV	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
																		Média	-0,292	-0,151	-0,028	-1,177	40,434				

Tabela 9.3- Resultado da comparação entre o método JM 9.8 e Proposto para RDO=0 e IPPP

P021																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0/0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	31,74	36,04	38,02	7432	31752	168	39352	6,019	1,722
akiyo	100	0/0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	38,49	40,91	41,67	17928	122696	168	140792	5,392	1,81
akiyo	100	0/0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	45,65	47,09	47,75	39752	507704	168	547624	5,754	2,448
akiyo	100	0/0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	52,32	52,92	53,25	82424	1864464	168	1947056	6,66	3,41
foreman	100	0/0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	51,08	51,5	51,79	109692	7099608	168	7209368	9,51	4,784
foreman	100	0/0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	43,2	45,15	46,32	53692	2528200	168	2581960	8,837	4,96
foreman	100	0/0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	35,75	40,2	41,01	22184	739312	168	761664	8,737	5,362
foreman	100	0/0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	0	OFF	0	29,02	37,26	37,39	8576	215912	168	224656	9,369	5,964
container	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,07	51,35	51,56	117136	8406824	168	8524128	8,903	4,365
container	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,2	44,06	44,55	59880	3364152	168	3424200	8,096	4,109
container	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,9	36,52	37,8	26464	1131648	168	1158280	8,142	4,631
container	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,1	31,59	33,99	9944	459672	168	469784	9,02	5,402
grandma	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,1	50,82	50,94	118176	8550672	168	8669016	9,413	3,992
grandma	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,65	42,8	43,25	57848	3232272	168	3290288	8,058	4,445
grandma	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	36,01	35,7	36,64	22896	1050632	168	1073696	8,639	4,737
grandma	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,76	31,57	32,84	7528	350000	168	357696	9,48	5,84
mother_daughter	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,33	51,13	51,35	92488	7191728	168	7284384	9,043	4,12
mother_daughter	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,36	43,79	44,73	43668	2717672	168	2761408	8,22	4,49
mother_daughter	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,11	36,72	38,71	17136	904064	168	921368	8,487	5,076
mother_daughter	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,61	32,28	35,31	6136	329152	168	335456	9,14	5,765
suzie	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,07	51,61	51,66	102544	3855736	168	3958448	4,979	2,152
suzie	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,87	45,42	45,74	48032	1415064	168	1463264	4,471	2,597
suzie	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,98	39,38	40,38	18488	416664	168	435320	4,53	2,783
suzie	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,91	35,57	37,52	6296	144952	168	151416	4,684	3,167
container	48	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,07	51,68	52,09	435848	10837872	168	11273888	14,415	5,279
container	48	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,23	47,02	47,36	213976	2864832	168	3078976	12,687	5,44
container	48	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,89	41,83	41,72	87632	414688	168	1002488	12,95	6,434
container	48	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	29,91	38,15	37,85	30640	59272	168	590080	13,539	7,104
akiyo	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,17	51,06	51,06	152320	12783592	168	12936080	23,758	18,629
akiyo	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,32	43,42	43,44	78692	6695792	168	6774552	22,515	18,628
akiyo	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,71	35,28	35,1	39104	3194696	168	3233968	21,924	18,616
akiyo	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,89	29,86	30,31	18360	1387376	168	1405904	21,498	18,343
coastguard	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,99	51,11	51,17	209224	14686880	168	14896272	25,886	20,515
coastguard	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,1	43,97	44,72	128224	8059816	168	8188208	24,477	20,426
coastguard	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,22	37,86	39,52	59696	3445104	168	3504968	24,153	20,592
coastguard	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,5	34,37	36,47	21608	1206744	168	1228520	23,61	20,286
hall_monitor	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,97	50,92	50,96	221336	15358704	168	15580208	21,7	16,791
hall_monitor	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,99	42,68	42,8	137760	8131040	168	8268968	20,526	16,857
hall_monitor	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,49	35,24	35,49	78992	3896328	168	3975488	20,357	16,684
hall_monitor	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	29,84	31,22	31,41	41088	1702312	168	1743568	20,171	16,382
husky	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,86	50,85	50,85	256872	22448088	168	22705128	28,493	22,535
husky	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,29	42,45	42,43	170344	14435752	168	14606264	27,302	23,369
husky	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	34,1	34,94	35,01	97136	8298336	168	8395640	27,77	22,766
husky	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	26,81	30,46	30,74	41808	3546872	168	3588848	26,238	22,478
mobile	100	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	50,74	50,69	50,64	298184	24159984	168	24458336	27,306	21,405
mobile	100	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	41,86	41,69	41,53	201280	15439576	168	15641024	25,883	21,873
mobile	100	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,22	33,05	32,72	125192	8512152	168	8637512	25,638	21,618
mobile	100	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	25,47	27,1	26,83	59648	3583272	168	3643088	24,984	21,259

Tabela 10.1- Resultado da simulação do método P021 para RDO=0 e IPPP

PROPOSTO																											
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time	
akiyo	100	0/0		8	8	8 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	31.79	36.03	37.95	7432	35768	168	19368	5.907	1.583
akiyo	100	0/0		18	18	18 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	38.47	40.91	41.79	17928	429568	168	21568	5.187	1.573
akiyo	100	0/0		28	28	28 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	45.63	47.08	47.7	39752	858968	168	898888	5.578	2.006
akiyo	100	0/0		38	38	38 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	52.33	52.92	53.28	82424	2193592	168	2276184	6.531	3.481
foreman	100	0/0		8	8	8 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	51.05	51.51	51.81	109592	7105040	168	7214800	8.847	4.702
foreman	100	0/0		18	18	18 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	43.18	45.12	46.29	53592	2574784	168	2628544	8.588	4.931
foreman	100	0/0		28	28	28 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	35.73	40.19	40.94	22184	763304	168	785666	8.692	5.058
foreman	100	0/0		38	38	38 176x144	30	0	HEX	ON		32	1	10	CAVLC	0	OFF	0	29.02	37.25	37.36	8576	221704	168	230448	9.253	5.738
container	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	50.97	51.31	51.51	117136	8956800	168	9074104	8.329	3.398
container	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	42.92	43.97	44.39	59880	3761536	168	3821584	7.564	3.341
container	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	35.73	36.38	37.57	26464	1465384	168	1492016	7.59	3.954
container	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	28.91	31.48	33.88	9944	686728	168	696840	8.212	4.917
grandma	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	51.01	50.82	50.91	118176	9093728	168	9212072	8.457	3.398
grandma	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	43.44	42.7	43.12	57848	3623408	168	3681424	7.472	3.526
grandma	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	35.77	35.51	36.37	22896	1379760	168	1402824	7.841	4.038
grandma	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	29.51	31.42	32.64	7528	593488	168	601184	8.703	5.574
mother_daughter	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	51.22	51.1	51.32	92488	7695216	168	7787872	8.953	3.716
mother_daughter	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	44.05	43.71	44.64	43568	3142776	168	3186512	8.533	4.334
mother_daughter	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	36.68	36.64	38.68	17136	1199208	168	1216512	7.876	4.459
mother_daughter	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30.42	32.04	35.06	6136	531424	168	537728	8.358	4.843
suzie	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50.97	51.53	51.58	102544	4219296	168	4322008	4.628	2.197
suzie	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	43.44	45.29	45.6	48032	1685472	168	1733672	4.153	2.357
suzie	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	36.55	39.22	40.2	18488	574728	168	593384	4.231	2.394
suzie	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30.73	35.46	37.29	6296	226816	168	233280	4.376	2.593
container	48	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	50.97	51.63	51.98	436848	12000128	168	12436144	13.393	4.734
container	48	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	42.84	46.99	47.33	213976	3685512	168	3899656	12.028	4.713
container	48	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	35.72	41.82	41.66	87632	1069808	168	1157608	12.42	5.139
container	48	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	29.88	38.12	37.82	30640	565496	168	596304	12.658	6.299
akiyo	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	51.17	51.05	51.05	152320	13010392	168	13162880	22.966	18.414
akiyo	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	44.3	43.4	43.43	78592	6863024	168	6941784	21.855	17.818
akiyo	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	37.67	35.26	35.08	39104	3272112	168	3311384	21.638	17.724
akiyo	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30.87	29.86	30.3	18360	1396920	168	1415448	21.38	18.037
coastguard	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50.96	51.09	51.17	209224	15531408	168	15740800	24.653	19.523
coastguard	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	43.03	43.88	44.54	128224	8641616	168	8770008	23.448	19.047
coastguard	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	36.17	37.74	39.26	59696	3754952	168	3814816	23.413	19.254
coastguard	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	30.45	34.36	36.47	21608	1272944	168	1294720	23.032	19.422
hall_monitor	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50.96	50.92	50.95	221336	15870208	168	16091712	21.509	16.01
hall_monitor	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	42.96	42.66	42.79	137760	8554096	168	8692024	19.952	16.228
hall_monitor	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	36.41	35.23	35.49	78992	4148520	168	4227680	19.89	16.257
hall_monitor	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	29.75	31.21	31.41	41088	1791720	168	1832976	19.902	16.088
husky	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50.85	50.78	50.78	256872	24369504	168	24626544	26.604	21.103
husky	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	42.23	42.37	42.34	170344	15947848	168	16118360	25.69	20.761
husky	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	33.94	34.73	34.75	97136	9316840	168	9414144	25.731	21.364
husky	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	26.56	30.31	30.55	41808	4210272	168	4252248	25.546	21.4
mobile	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	50.72	50.67	50.61	298184	26101008	168	26399360	25.726	19.926
mobile	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	41.8	41.61	41.44	201280	17106880	168	17308328	24.588	19.825
mobile	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	33.08	32.9	32.56	125192	9753464	168	9878824	24.399	19.932
mobile	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30	CAVLC	0	OFF	0	25.24								

Tabela 10.2- Resultado da simulação do método Proposto para RDO=0 e IPPP

DIFERENÇA																										
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY	BD SNRU	BD SNRV	BD=Bitr I	BD=Bitr P	BD=Bitr B	BD=Bitr IPET	Total Time Reduction	Me Time Reduction
akiyo	100	0/0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	0,050	-0,010	-0,070	0,000	12,648	0,000	-50,783	1,86	8,07
akiyo	100	0/0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	-0,020	0,000	0,120	0,000	250,108	0,000	-84,681	3,80	13,09
akiyo	100	0/0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	-0,020	-0,010	-0,050	0,000	69,187	0,000	64,143	3,06	18,06
akiyo	100	0/0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	0,010	0,000	0,030	0,000	17,653	0,000	16,904	1,94	-2,08
foreman	100	0/0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	-0,030	0,010	0,020	0,000	0,077	0,000	0,075	6,97	1,71
foreman	100	0/0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	-0,020	-0,030	-0,030	0,000	1,843	0,000	1,804	2,82	0,58
foreman	100	0/0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	-0,020	-0,010	-0,070	0,000	3,245	0,000	3,150	0,52	5,67
foreman	100	0/0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	0 OFF	0	0	0,000	-0,010	-0,030	0,000	2,683	0,000	2,578	1,24	3,79
container	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,100	-0,040	-0,050	0,000	6,542	0,000	6,452	6,45	22,15
container	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,280	-0,090	-0,160	0,000	11,812	0,000	11,605	6,57	18,69
container	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,170	-0,140	-0,230	0,000	29,491	0,000	28,813	6,78	14,62
container	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,190	-0,110	-0,110	0,000	49,395	0,000	48,332	8,96	8,96
grandma	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,090	0,000	-0,030	0,000	6,351	0,000	6,264	10,16	14,88
grandma	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,210	-0,100	-0,130	0,000	12,101	0,000	11,888	7,27	20,67
grandma	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,240	-0,190	-0,270	0,000	31,327	0,000	30,654	9,24	14,76
grandma	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,250	-0,150	-0,200	0,000	69,588	0,000	68,071	8,20	4,55
mother_daughter	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,110	-0,030	-0,030	0,000	7,001	0,000	6,912	1,00	9,81
mother_daughter	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,310	-0,080	-0,090	0,000	15,642	0,000	15,394	-3,81	3,47
mother_daughter	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,430	-0,080	-0,030	0,000	32,646	0,000	32,033	7,20	12,16
mother_daughter	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,190	-0,240	-0,250	0,000	61,452	0,000	60,298	8,56	15,99
suzie	100	0/0		8	8	8 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,100	-0,080	-0,080	0,000	9,429	0,000	9,184	7,05	-2,09
suzie	100	0/0		18	18	18 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,430	-0,130	-0,140	0,000	19,109	0,000	18,480	7,11	9,24
suzie	100	0/0		28	28	28 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,430	-0,160	-0,180	0,000	37,936	0,000	36,310	6,80	13,98
suzie	100	0/0		38	38	38 176x144	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,180	-0,110	-0,230	0,000	56,477	0,000	54,066	6,58	18,12
container	48	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,100	-0,050	-0,110	0,000	10,724	0,000	10,309	7,09	10,32
container	48	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,390	-0,030	-0,030	0,000	28,647	0,000	26,654	5,19	13,36
container	48	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,170	-0,010	-0,060	0,000	157,979	0,000	15,474	4,09	20,13
container	48	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	-0,030	-0,030	-0,030	0,000	854,069	0,000	1,055	6,51	11,33
akiyo	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	0,000	-0,010	-0,010	0,000	1,774	0,000	1,753	3,33	1,15
akiyo	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,020	-0,020	-0,010	0,000	2,498	0,000	2,469	2,93	4,35
akiyo	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,040	-0,020	-0,020	0,000	2,423	0,000	2,394	1,30	4,79
akiyo	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,020	0,000	-0,010	0,000	0,688	0,000	0,679	0,55	1,67
coastguard	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,030	-0,020	0,000	0,000	5,750	0,000	5,689	4,76	4,84
coastguard	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,070	-0,090	-0,180	0,000	7,219	0,000	7,105	4,20	6,75
coastguard	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,050	-0,120	-0,260	0,000	8,994	0,000	8,840	3,06	6,50
coastguard	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,050	-0,010	0,000	0,000	5,486	0,000	5,389	2,45	4,26
hall_monitor	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,010	0,000	-0,010	0,000	3,330	0,000	3,283	0,88	4,65
hall_monitor	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,030	-0,020	-0,010	0,000	5,203	0,000	5,116	2,80	3,73
hall_monitor	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,080	-0,010	0,000	0,000	6,473	0,000	6,344	2,29	2,56
hall_monitor	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,090	-0,010	0,000	0,000	5,252	0,000	5,128	1,33	1,92
husky	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,010	-0,070	-0,070	0,000	8,559	0,000	8,462	6,63	6,35
husky	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,060	-0,080	-0,090	0,000	10,475	0,000	10,352	5,90	11,12
husky	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,160	-0,210	-0,260	0,000	12,274	0,000	12,131	7,34	6,16
husky	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,250	-0,150	-0,190	0,000	18,704	0,000	18,485	2,64	4,80
mobile	100	0/0		8	8	8 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,020	-0,020	-0,030	0,000	8,034	0,000	7,936	5,79	6,91
mobile	100	0/0		18	18	18 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,060	-0,080	-0,090	0,000	10,799	0,000	10,660	5,00	9,36
mobile	100	0/0		28	28	28 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,140	-0,150	-0,160	0,000	14,583	0,000	14,371	4,83	7,80
mobile	100	0/0		38	38	38 352x288	30	0	OFF	ON		32	1	30 CAVLC	0 OFF	0	0	-0,230	-0,140	-0,180	0,000	21,044	0,000	20,698	3,50	5,30
																		BD SNRY	BD SNRU	BD SNRV	BD=Bitr I	BD=Bitr P	BD=Bitr B	BD=Bitr IPET	Total Time Reduction	Me Time Reduction
Média																		-0,122	-0,065	-0,085	0,000	42,181	0,000	12,681	4,594	8,521

Tabela 10.3- Resultado da comparação entre o método Proposto e P021 para RDO=0 e IPPP

Anexos

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FULL SEARCH																												
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr NVB	#Btr IPB	Total Ti	Me Tin	
akiyo	40	0/0		8	8	8 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	52,4	53	53,42	329320	670272	1105280	168	2105040	156,816	148,881
akiyo	40	0/0		18	18	18 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	45,79	47,27	48,06	154928	182496	215168	168	552760	156,391	149,28
akiyo	40	0/0		28	28	28 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	38,72	41	41,9	68664	42224	44000	168	255056	157,216	150,087
akiyo	40	0/0		38	38	38 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	32,05	36,05	38,22	27424	11200	12048	168	120840	159,796	152,744
foreman	40	0/0		8	8	8 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	51,17	51,6	52,02	453720	2392424	4373664	168	7219976	158,109	149,157
foreman	40	0/0		18	18	18 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	43,52	45,55	47,15	224384	835064	1280224	168	2339840	157,314	148,443
foreman	40	0/0		28	28	28 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	36,53	40,7	41,99	90912	244096	321232	168	656408	160,805	153,301
foreman	40	0/0		38	38	38 176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	29,79	37,95	38,27	33912	72368	85040	168	291488	164,315	157,102
container	40	0/0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,19	51,45	51,64	475080	2782040	4714840	168	7972128	162,754	153,519
container	40	0/0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,4	44,37	44,57	238296	1075888	1516856	168	2831208	160,332	151,377
container	40	0/0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	36,2	37,33	37,84	104224	330576	474376	168	909344	159,082	151,312
container	40	0/0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	29,37	32,94	34,06	39688	117632	181840	168	339328	158,438	151,601
grandma	40	0/0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,19	50,89	50,98	469416	2917544	5581024	168	8968152	157,078	147,904
grandma	40	0/0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,86	42,98	43,36	226788	1064312	1793560	168	3084808	155,454	147,875
grandma	40	0/0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	36,4	36,11	36,91	90200	325736	509640	168	925744	157,3	150,122
grandma	40	0/0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	30,17	32,06	33,14	27920	102544	157304	168	287936	161,388	153,982
mother_daughter	40	0/0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,43	51,17	51,35	374416	2462376	4690328	168	7527288	157,944	148,716
mother_daughter	40	0/0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	44,47	44,05	44,67	173928	878392	1463392	168	2515880	156,422	148,145
mother_daughter	40	0/0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,37	37,42	38,87	68232	263384	403328	168	735112	157,979	150,741
mother_daughter	40	0/0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	30,87	33,45	35,56	23184	85736	122936	168	232024	160,88	154,07
suzie	40	0/0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,17	51,57	51,59	372920	2788664	5331960	168	8493712	158,28	149,303
suzie	40	0/0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	44,03	45,41	45,6	189224	1012360	1672688	168	2854440	157,625	149,501
suzie	40	0/0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,23	39,57	40,39	65152	287688	410440	168	763448	159,031	151,861
suzie	40	0/0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	31,16	35,78	37,68	21144	92952	134616	168	248880	162,382	154,905
container	31	0/0		8	8	8 352x288	10	0	HEX	ON		32	1	15	CABAC	0	OFF	0	51,18	51,81	52,2	1718008	6669824	11730352	168	20018352	490,263	459,858
container	31	0/0		18	18	18 352x288	10	0	HEX	ON		32	1	15	CABAC	0	OFF	0	43,3	47,19	47,52	835096	1825504	1918008	168	4578776	484,533	457,762
container	31	0/0		28	28	28 352x288	10	0	HEX	ON		32	1	15	CABAC	0	OFF	0	36,17	42,05	41,95	334488	252864	195168	168	1582688	492,289	468,248
container	31	0/0		38	38	38 352x288	10	0	HEX	ON		32	1	15	CABAC	0	OFF	0	30,22	38,4	37,93	113000	34632	40856	168	488656	509,985	485,604
akiyo	20	0/0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	52,03	51,15	51,36	606368	3162728	5892760	168	9662024	302,52	285,539
akiyo	20	0/0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	45,45	44,73	45,68	223672	1030656	1660792	168	2915288	297,907	283,279
akiyo	20	0/0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	39,83	38,59	39,74	90128	340016	528816	168	959128	304,549	288,66
akiyo	20	0/0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	33,52	34,44	36,22	35696	146240	238224	168	420328	305,127	291,552
coastguard	20	0/0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	52,03	51,15	51,36	606368	3162728	5892760	168	9662024	292,713	276,194
coastguard	20	0/0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	42,24	45,91	46,94	534040	4057808	6769008	168	11361024	299,372	281,904
coastguard	20	0/0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	34,27	42,26	43,82	219352	1303136	1725312	168	3247968	301,344	285,287
coastguard	20	0/0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	27,55	39,21	41,53	57640	193776	178552	168	430136	313,672	299,593
hall_monitor	20	0/0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,18	50,97	51,08	796808	6442480	13419520	168	20658976	298,891	280,817
hall_monitor	20	0/0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,44	43,52	44,42	336368	2001160	3971808	168	6309504	299,497	282,371
hall_monitor	20	0/0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,63	37,85	39,77	117312	342648	553576	168	1013704	299,779	285,279
hall_monitor	20	0/0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	31,67	34,91	37,67	46752	99728	137040	168	283688	303,233	289,017
husky	20	0/0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	50,89	50,96	51,28	2008440	13747616	26185232	168	41941456	299,858	278,692
husky	20	0/0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	41,6	43,28	45,3	974880	7015984	13387008	168	21378040	297,034	278,194
husky	20	0/0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	32,61	37,44	42	536472	3200456	5576104	168	9313200	297,013	281,035
husky	20	0/0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	24,06	33,99	40,1	220304	887024	127712				

Tabela 11.1- Resultado da simulação do método Full Search para RDO=0 e IBBP

Anexos

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PROPOSTO																											
Sequence	#img	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time	
akiyo	40	0/0	8	8	8	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	52,38	52,99	53,42	329320	698176	1181448	168	2209112	8,095	2,401
akiyo	40	0/0	18	18	18	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	45,61	47,25	48,04	154928	224392	324744	168	704232	7,859	2,694
akiyo	40	0/0	28	28	28	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	38,41	40,98	41,9	68664	80608	162144	168	311584	8,672	3,798
akiyo	40	0/0	38	38	38	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	32,12	36,03	38,25	27424	28056	72568	168	128216	10,475	5,432
foreman	40	0/0	8	8	8	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	51,01	51,59	52	453720	2579152	4885296	168	7918336	12,94	6,593
foreman	40	0/0	18	18	18	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	42,94	45,55	47,16	224384	988616	1684432	168	2897600	12,189	6,531
foreman	40	0/0	28	28	28	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	35,68	40,73	41,93	90912	339624	432000	168	862704	12,25	6,648
foreman	40	0/0	38	38	38	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	28,95	37,96	38,26	33912	115912	199496	168	349488	12,988	8,204
container	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,12	51,48	51,68	475080	2874528	4791880	168	8141656	13,819	7,292
container	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	43,19	44,42	44,57	238296	1133096	1622216	168	2993776	12,955	7,457
container	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,08	37,37	37,85	104224	382376	597688	168	1084456	13,074	8,586
container	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	29,16	32,89	33,98	39688	148704	275360	168	463920	14,233	9,456
grandma	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,08	50,88	50,98	469416	3020552	5821928	168	9312064	13,647	6,799
grandma	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	43,7	42,97	43,25	226768	1132936	1936616	168	3296488	12,531	6,701
grandma	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,19	36,05	36,8	90200	376832	631040	158	1086240	12,876	7,867
grandma	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	29,94	31,97	33,02	27920	133928	257640	168	419656	14,394	9,587
mother_daughter	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,29	51,19	51,36	374416	2551968	4896176	168	7822728	13,978	7,222
mother_daughter	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	44,17	44,09	44,72	173928	966864	1633456	168	2774416	12,854	7,055
mother_daughter	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,87	37,41	38,87	68232	315472	512512	168	896384	13,451	8,261
mother_daughter	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	30,88	33,33	35,45	23184	109736	206776	168	339864	14,57	9,756
suzie	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,29	51,19	51,36	374416	2551968	4896176	168	7822728	13,347	7,098
suzie	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	44,17	44,09	44,72	173928	966864	1633456	168	2774416	12,811	7,413
suzie	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,87	37,41	38,87	68232	315472	512512	168	896384	13,541	8,363
suzie	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	30,88	33,33	35,45	23184	109736	206776	168	339864	14,732	9,593
container	31	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	51,04	51,8	52,2	1718008	6819120	12363580	168	20900896	33,08	12,259
container	31	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	42,97	47,18	47,52	835096	2008560	2362328	168	5206152	29,873	12,135
container	31	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	36,02	42,01	41,94	334488	392056	623760	168	1350472	31,922	15,589
container	31	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	30,1	38,35	37,88	113000	122304	323712	168	559184	35,404	19,129
akiyo	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,95	51,15	51,36	606368	3243624	6120216	168	9970376	22,426	9,863
akiyo	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	45,21	44,69	45,64	223672	1102736	1881080	168	3207656	21,719	11,084
akiyo	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	39,52	39,62	39,62	90128	398352	729032	168	1217680	21,97	12,209
akiyo	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	33,55	34,33	36,09	35696	170296	308608	168	514768	23,138	13,251
coastguard	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,76	51,32	51,67	1045144	8773712	16040240	168	25859264	33,547	19,026
coastguard	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	41,88	46,1	47,21	534040	4320776	7082392	168	11937376	31,512	19,412
coastguard	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	33,64	42,27	43,85	219352	1526320	1956792	168	3702632	31,218	19,831
coastguard	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	27,07	38,84	41,48	57640	278208	390320	168	726336	31,686	21,41
hall_monitor	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51	50,97	51,09	796808	6533320	13611424	168	20941720	27,557	13,766
hall_monitor	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	42,97	43,33	44,24	336368	2091688	4221416	168	6649640	26,25	14,392
hall_monitor	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	37,45	37,66	39,62	117312	379256	716232	168	1212968	23,933	13,454
hall_monitor	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	31,54	34,79	37,6	46752	136680	269880	168	453480	25,493	15,207
husky	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,66	51	51,34	2008440	15961864	30658504	168	48628976	51,791	35,175
husky	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	41,44	43,36	45,43	974880	7648296	14773912	168	23397256	49,651	35,782
husky	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	32,23	37,53	42,09	536472	3834616	6989616	168	11360872	48,804	36,377
husky	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	23,48	33,95	40,13	220304	1289264	2075376	168	3685112	50,629	40,119
mobile	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,81	50,88	50,87	1646664	11750184	22846696	168	36243712	38	

Tabela 11.2- Resultado da simulação do método Proposto para RDO=0 e IBP

DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	lperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	#Btr NVB	BD#Btr IPB	Total Time	Me Time
akiyo	40	0/0		8	8	8 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,020	-0,010	0,000	0,000	4,163	6,891	0,000	4,944	94,838	98,387
akiyo	40	0/0		18	18	18 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,180	-0,020	-0,020	0,000	22,967	50,926	0,000	27,403	94,975	98,195
akiyo	40	0/0		28	28	28 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,310	-0,020	0,000	0,000	90,906	268,509	0,000	22,163	94,484	97,469
akiyo	40	0/0		38	38	38 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	0,070	-0,020	0,030	0,000	150,500	502,324	0,000	6,104	93,445	96,444
foreman	40	0/0		8	8	8 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,160	-0,010	-0,020	0,000	7,605	11,698	0,000	9,673	91,816	95,580
foreman	40	0/0		18	18	18 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,580	0,000	0,010	0,000	18,388	31,573	0,000	23,838	92,252	95,600
foreman	40	0/0		28	28	28 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,850	0,030	-0,060	0,000	39,135	34,482	0,000	31,428	92,382	95,663
foreman	40	0/0		38	38	38 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,840	0,010	-0,010	0,000	60,170	134,591	0,000	19,898	92,096	94,778
container	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,070	0,030	0,040	0,000	3,324	1,634	0,000	2,127	91,509	95,250
container	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,210	0,050	0,000	0,000	5,317	6,946	0,000	5,742	91,920	95,074
container	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,120	0,040	0,010	0,000	15,670	25,995	0,000	19,257	91,782	94,326
container	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,210	-0,050	-0,080	0,000	26,415	51,430	0,000	36,717	91,017	93,763
grandma	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,110	-0,010	0,000	0,000	3,531	4,316	0,000	3,835	91,312	95,403
grandma	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,160	-0,010	-0,110	0,000	6,448	7,976	0,000	6,862	91,939	95,468
grandma	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,210	-0,060	-0,110	0,000	15,686	23,821	-5,952	18,633	91,814	94,893
grandma	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,230	-0,090	-0,120	0,000	30,605	63,785	0,000	45,746	91,081	93,774
mother_daughter	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,140	0,020	0,010	0,000	3,638	4,389	0,000	3,925	91,150	95,144
mother_daughter	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,300	0,040	0,050	0,000	10,072	11,621	0,000	10,276	91,782	95,238
mother_daughter	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,500	-0,010	0,000	0,000	19,776	27,071	0,000	21,938	91,486	94,520
mother_daughter	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,190	-0,120	-0,110	0,000	27,993	68,198	0,000	46,478	90,944	93,668
suzie	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	0,120	-0,380	-0,230	0,401	-8,488	-8,173	0,000	-7,900	91,567	95,246
suzie	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	0,140	-1,320	-0,880	2,780	-4,494	-2,345	0,000	-2,803	91,872	95,042
suzie	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,360	-2,160	-1,520	4,727	9,668	24,869	0,000	17,413	91,495	94,493
suzie	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,480	-2,450	-2,230	9,648	18,057	53,604	0,000	36,557	90,928	93,807
container	31	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	-0,140	-0,010	0,000	0,000	3,795	5,398	0,000	4,408	93,253	97,334
container	31	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	-0,330	-0,010	0,000	0,000	10,028	23,166	0,000	13,702	93,835	97,349
container	31	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	-0,150	-0,040	-0,010	0,000	55,046	219,602	0,000	-14,672	93,516	96,671
container	31	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	-0,120	-0,050	-0,050	0,000	253,153	692,324	0,000	14,433	93,058	96,061
akiyo	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,080	0,000	0,000	0,000	2,558	3,860	0,000	3,191	92,587	96,546
akiyo	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,240	-0,040	-0,040	0,000	6,994	13,264	0,000	10,029	92,709	96,087
akiyo	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,310	-0,170	-0,120	0,000	17,157	37,861	0,000	26,957	92,786	95,770
akiyo	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	0,030	-0,110	-0,130	0,000	16,450	29,545	0,000	22,468	92,417	95,455
coastguard	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-1,270	0,170	0,310	72,361	177,410	172,202	0,000	167,638	88,539	93,111
coastguard	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,360	0,190	0,270	0,000	6,481	4,630	0,000	5,073	89,474	93,114
coastguard	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,630	0,010	0,030	0,000	17,127	13,417	0,000	13,998	89,640	93,049
coastguard	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,480	-0,370	-0,050	0,000	43,572	118,603	0,000	68,862	89,898	92,854
hall_monitor	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,180	0,000	0,010	0,000	1,410	1,430	0,000	1,369	90,780	95,098
hall_monitor	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,470	-0,190	-0,180	0,000	4,524	6,284	0,000	5,391	91,235	94,903
hall_monitor	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,180	-0,190	-0,150	0,000	10,684	29,383	0,000	19,657	92,016	95,284
hall_monitor	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,130	-0,120	-0,070	0,000	37,053	96,935	0,000	59,852	91,593	94,738
husky	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,030	0,040	0,060	0,000	16,106	17,083	0,000	15,945	82,728	87,379
husky	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,160	0,080	0,130	0,000	9,012	10,360	0,000	9,445	83,284	87,138
husky	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,380	0,090	0,090	0,000	19,815	25,349	0,000	21,987	83,568	87,056
husky	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	3														

Tabela 11.3- Resultado da comparação entre o método Proposto e Full Search para RDO=0 e IBBP

Anexos

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JM98																												
Sequence	#img	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr NVB	#Btr IPB	Total Time	Me Tin	
akiyo	40	0/0		8	8	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	52,4	53,01	53,4	329320	664264	1100160	168	2093904	44,427	26,407
akiyo	40	0/0		18	18	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	45,78	47,28	48,07	154904	180256	212592	168	547912	46,396	29,391
akiyo	40	0/0		28	28	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	38,7	41,01	41,9	68664	41656	43660	168	254040	48,984	32,691
akiyo	40	0/0		38	38	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	32,05	36,05	38,22	27400	10704	12328	168	150592	51,672	35,587
foreman	40	0/0		8	8	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	51,17	51,61	52,07	453720	2320816	4267064	168	7041760	73,911	53,95
foreman	40	0/0		18	18	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	43,5	45,58	47,22	224360	803912	1232832	168	2261264	69,434	51,449
foreman	40	0/0		28	28	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	36,48	40,74	42,02	90912	237992	314760	168	643824	68,156	51,765
foreman	40	0/0		38	38	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	29,69	37,95	38,3	33888	70064	82808	168	386920	70,609	54,583
container	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,17	51,48	51,67	475080	2754648	4686016	168	7915904	62,482	41,67
container	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,39	44,45	44,66	238272	1052424	1507976	168	2798832	59,747	42,568
container	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	36,2	37,41	37,92	104224	104224	325736	168	904528	61,8	46,908
container	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	29,37	32,96	34,05	39664	117400	181840	168	339064	64,873	49,129
grandma	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,17	50,9	50,99	469416	2874776	5547120	160	8891472	69,032	48,167
grandma	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,85	43,01	43,41	226744	1042096	1776280	160	3045280	61,998	45,027
grandma	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	36,37	36,14	36,94	90200	323912	505976	160	920248	67,827	51,925
grandma	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	30,14	32,09	33,17	27896	102336	158472	160	288864	72,315	56,862
mother_daughter	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,41	51,2	51,37	374416	2413336	4637480	160	7425392	70,081	49,956
mother_daughter	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	44,45	44,13	44,79	173904	857968	1445152	160	2477184	64,111	47,528
mother_daughter	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,34	37,45	38,87	68232	260336	398232	160	726960	67,343	51,024
mother_daughter	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	30,83	33,49	35,6	23160	85616	123880	160	232816	70,003	54,596
suzie	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,15	51,63	51,66	372920	2729504	525656	160	8368840	80,565	60,338
suzie	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	44,01	45,5	45,72	169200	989904	1646576	160	2805840	75,388	58,122
suzie	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,2	39,63	40,46	65152	285448	407488	160	758248	75,767	60,225
suzie	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	31,13	35,81	37,68	21120	92168	134368	160	247816	76,916	61,004
container	31	0/0		8	8	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	51,16	51,85	52,26	1718008	6474360	11596880	168	19789416	143,233	82,426
container	31	0/0		18	18	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	43,29	47,2	47,54	835072	1805712	1874304	168	4515256	139,36	84,061
container	31	0/0		28	28	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	36,16	42,05	41,97	334488	251056	194416	168	1780128	141,33	91,821
container	31	0/0		38	38	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	30,22	38,4	37,93	112976	34568	40880	168	388992	153,387	105,13
akiyo	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	52,02	51,15	51,36	606360	3134344	5856432	168	9697304	108,219	70,725
akiyo	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	45,44	44,77	45,72	223664	1015752	1652824	168	2892408	109,032	75,288
akiyo	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	39,79	38,62	39,75	90128	336880	531832	168	968928	144,192	100,718
akiyo	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	33,48	34,44	36,23	35688	147216	238400	168	421472	128,561	93,649
coastguard	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	50,81	51,33	51,66	1045160	8331744	15553752	168	24930824	201,609	150,029
coastguard	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	42,22	46,15	47,24	534032	3929512	6541856	168	11005668	173,342	133,91
coastguard	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	34,24	42,234	43,96	219352	1286240	1681120	168	3186880	170,138	134,684
coastguard	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	27,52	39,21	41,61	57632	195568	186456	168	439824	164,354	132,638
hall_monitor	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,14	50,99	51,12	796800	6323248	13196576	168	20316792	171,829	129,618
hall_monitor	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,39	43,55	44,44	336360	1968808	3918720	168	6224056	143,609	107,557
hall_monitor	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,62	37,86	39,78	117312	339304	553816	168	1010600	117,269	84,409
hall_monitor	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	31,62	34,92	37,65	46744	99792	139032	168	285736	117,269	86,976
husky	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	50,89	51,01	51,35	2008432	13570912	25719968	168	41299480	188,778	142,676
husky	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	41,59	43,48	45,53	974872	6872832	13165104	168	21012976	183,159	140,472
husky	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	32,59	37,6	42,12	536472	3167232	5530144	168	9234016	191,655	149,863
husky	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	24,04	34,07	40,15	220296	897688	1277184	168	2385336	212,2	

Tabela 12.1- Resultado da simulação do método JM9.8 para RDO=0 e IBBP

Anexos

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PROPOSTO																											
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time	
akiyo	40	0/0	8	8	8	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	52,38	52,99	53,42	329320	698176	1181448	168	2209112	8,095	2,401
akiyo	40	0/0	18	18	18	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	45,61	47,25	48,04	154928	224392	324744	168	704232	7,859	2,694
akiyo	40	0/0	28	28	28	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	38,41	40,98	41,9	68664	80608	162144	168	311584	8,672	3,798
akiyo	40	0/0	38	38	38	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	32,12	36,03	38,25	27424	28056	72568	168	128216	10,475	5,432
foreman	40	0/0	8	8	8	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	51,01	51,59	52	453720	2579152	4885296	168	7918336	12,94	6,593
foreman	40	0/0	18	18	18	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	42,94	45,55	47,16	224384	988616	1684432	168	2897600	12,189	6,531
foreman	40	0/0	28	28	28	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	35,68	40,73	41,93	90912	339624	432000	168	862704	12,25	6,648
foreman	40	0/0	38	38	38	176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	28,95	37,96	38,26	33912	115912	199496	168	349488	12,988	8,204
container	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,12	51,48	51,68	475080	2874528	4791880	168	8141656	13,819	7,292
container	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	43,19	44,42	44,57	238296	1133096	1622216	168	2993776	12,955	7,457
container	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,08	37,37	37,85	104224	382376	597688	168	1084456	13,074	8,586
container	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	29,16	32,89	33,98	39688	148704	275360	168	463920	14,233	9,456
grandma	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,08	50,88	50,98	469416	3020552	5821928	168	9312064	13,647	6,799
grandma	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	43,7	42,97	43,25	226768	1132936	1936616	168	3296488	12,531	6,701
grandma	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,19	36,05	36,8	90200	376832	631040	158	1098240	12,876	7,667
grandma	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	29,94	31,97	33,02	27920	133928	257640	168	419656	14,394	9,587
mother_daughter	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,29	51,19	51,36	374416	2551968	4896176	168	7822728	13,978	7,222
mother_daughter	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	44,17	44,09	44,72	173928	966864	1633456	168	2774416	12,854	7,055
mother_daughter	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,87	37,41	38,87	68232	315472	512512	168	896384	13,451	8,261
mother_daughter	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	30,68	33,33	35,45	23184	109736	206776	168	339864	14,57	9,756
suzie	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,29	51,19	51,36	374416	2551968	4896176	168	7822728	13,347	7,098
suzie	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	44,17	44,09	44,72	173928	966864	1633456	168	2774416	12,811	7,413
suzie	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,87	37,41	38,87	68232	315472	512512	168	896384	13,541	8,363
suzie	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	30,68	33,33	35,45	23184	109736	206776	168	339864	14,732	9,593
container	31	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	51,04	51,8	52,2	1718008	6819120	12363580	168	20900856	33,08	12,259
container	31	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	42,97	47,18	47,52	835096	2008560	2362328	168	5206152	29,873	12,136
container	31	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	36,02	42,01	41,94	334488	392056	623760	168	1350472	31,922	15,589
container	31	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	30,1	38,35	37,88	113000	122304	323712	168	559184	35,404	19,129
akiyo	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,95	51,15	51,36	606368	3243624	6120216	168	9970376	22,426	9,863
akiyo	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	45,21	44,69	45,64	223672	1102736	1881080	168	3207656	21,719	11,084
akiyo	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	39,52	38,42	39,62	90128	398352	729032	168	1217680	21,97	12,209
akiyo	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	33,55	34,33	36,09	35696	170296	308608	168	514768	23,138	13,251
coastguard	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,76	51,32	51,67	1045144	8773712	16040240	168	25859264	33,547	19,026
coastguard	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	41,88	46,1	47,21	534040	4320776	7082392	168	11937376	31,512	19,412
coastguard	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	33,64	42,27	43,85	219352	1526320	1956792	168	3702632	31,218	19,831
coastguard	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	27,07	38,84	41,48	57640	278208	390320	168	726336	31,686	21,41
hall_monitor	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51	50,97	51,09	796808	6533320	13611424	168	20941720	27,557	13,766
hall_monitor	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	42,97	43,33	44,24	336368	2091688	4221416	168	6649640	26,25	14,392
hall_monitor	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	37,45	37,66	39,62	117312	379256	716232	168	1212968	23,933	13,454
hall_monitor	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	31,54	34,79	37,6	46752	136880	269880	168	453480	25,493	15,207
husky	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,66	51	51,34	2008440	15961864	30658504	168	48628976	51,791	35,175
husky	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	41,44	43,36	45,43	974880	7648296	14773912	168	23397256	49,651	35,782
husky	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	32,23	37,53	42,09	536472	3834616	6989616	168	11360872	48,804	36,377
husky	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	23,48	33,95	40,13	220304	1289264	2075376	168	3685112	50,629	40,119
mobile	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,81	50,88	50,87	1646664	11750184	22846696	168	36243712		

Tabela 12.2- Resultado da simulação do método Proposto para RDO=0 e IBBP

DIFERENÇA																												
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY	BD SNRU N	BD SNRV N	BD=Bitr I	BD=Bitr P	BD=Bitr B	#Bitr NVB	BD=Bitr IPB	Total Time Reduction	Me Time f	
akiyo	40	0/0		8	8	8 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,020	-0,020	0,020	0,000	5,105	7,389	0,000	5,502	81,779	90,908	
akiyo	40	0/0		18	18	18 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,170	-0,030	-0,030	0,015	24,485	52,755	0,000	28,530	83,061	90,834	
akiyo	40	0/0		28	28	28 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,290	-0,030	0,000	0,000	93,509	272,231	0,000	22,652	82,296	88,382	
akiyo	40	0/0		38	38	38 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	0,070	-0,020	0,030	0,088	162,108	488,644	0,000	-14,859	79,728	84,736	
foreman	40	0/0		8	8	8 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,160	-0,020	-0,070	0,000	11,131	14,488	0,000	12,448	82,492	87,779	
foreman	40	0/0		18	18	18 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,560	-0,030	-0,060	0,011	22,976	36,631	0,000	28,141	82,445	87,306	
foreman	40	0/0		28	28	28 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,800	-0,010	-0,090	0,000	42,704	37,247	0,000	33,997	82,027	87,157	
foreman	40	0/0		38	38	38 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,740	0,010	-0,040	0,071	65,437	140,914	0,000	-9,674	81,606	84,970	
container	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,050	0,000	0,010	0,000	4,352	2,259	0,000	2,852	77,883	82,501	
container	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,200	-0,030	-0,090	0,010	7,665	7,576	0,000	6,965	78,317	82,482	
container	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,120	-0,040	-0,070	0,000	266,879	83,488	0,000	19,892	78,845	81,696	
container	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,210	-0,070	-0,070	0,061	26,664	51,430	0,000	36,824	78,060	80,753	
grandma	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,090	-0,020	-0,010	0,000	5,071	4,954	5,000	4,730	80,231	85,885	
grandma	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,150	-0,040	-0,160	0,011	8,717	9,027	5,000	8,249	79,788	85,118	
grandma	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,180	-0,090	-0,140	0,000	16,338	24,717	-1,250	19,342	81,016	85,234	
grandma	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,200	-0,120	-0,150	0,086	30,871	62,578	5,000	45,278	80,095	83,140	
mother_daughter	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,120	-0,010	-0,010	0,000	5,744	5,578	5,000	5,351	80,055	85,543	
mother_daughter	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,280	-0,040	-0,070	0,014	12,692	13,030	5,000	11,999	79,950	85,156	
mother_daughter	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,470	-0,040	0,000	0,000	21,179	28,697	5,000	23,306	80,026	83,810	
mother_daughter	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,150	-0,160	-0,150	0,104	28,172	66,916	5,000	45,980	79,187	82,131	
suzie	40	0/0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	0,140	-0,440	-0,300	0,401	-6,504	831,441	5,000	-6,414	83,433	88,236	
suzie	40	0/0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	0,160	-1,410	-1,000	2,794	-2,327	-0,797	5,000	-1,120	83,007	87,246	
suzie	40	0/0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,330	-2,220	-1,590	4,727	10,518	25,774	5,000	18,218	82,128	86,114	
suzie	40	0/0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,450	-2,480	-2,230	9,773	19,061	53,888	5,000	37,144	80,847	84,275	
container	95	0/0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,120	-0,050	-0,060	0,000	5,325	6,611	0,000	5,616	76,905	85,127	
container	95	0/0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,320	-0,020	-0,020	0,003	11,234	26,038	0,000	15,301	78,564	85,564	
container	95	0/0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,140	-0,040	-0,030	0,000	56,163	220,838	0,000	-24,136	77,413	83,022	
container	95	0/0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,120	-0,050	-0,050	0,021	253,807	691,859	0,000	43,900	76,919	81,804	
akiyo	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,070	0,000	0,000	0,001	3,487	4,504	0,000	3,887	79,277	86,054	
akiyo	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,230	-0,080	-0,080	0,004	8,564	13,810	0,000	10,899	80,080	85,278	
akiyo	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,270	-0,200	-0,130	0,000	18,276	37,079	0,000	26,983	84,763	87,878	
akiyo	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	0,070	-0,110	-0,140	0,022	15,678	29,450	0,000	22,136	82,002	85,860	
coastguard	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,050	-0,010	0,010	-0,002	5,305	3,128	0,000	3,724	83,360	87,318	
coastguard	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,340	-0,050	-0,030	0,001	9,957	8,263	0,000	8,467	81,821	85,504	
coastguard	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,600	0,036	-0,110	0,000	18,665	16,398	0,000	16,184	81,651	85,276	
coastguard	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,450	-0,370	-0,130	0,014	42,256	109,336	0,000	65,142	80,721	83,868	
hall_monitor	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,140	-0,020	-0,030	0,001	3,322	3,144	0,000	3,076	83,963	89,380	
hall_monitor	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,420	-0,220	-0,200	0,002	6,241	7,724	0,000	6,838	81,721	86,619	
hall_monitor	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,170	-0,200	-0,160	0,000	11,775	29,327	0,000	20,025	79,591	84,061	
hall_monitor	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,080	-0,130	-0,050	0,017	36,965	94,114	0,000	58,706	78,261	82,516	
husky	20	0/0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,030	-0,010	-0,010	0,000	17,618	19,201	0,000	17,747	72,565	75,346	
husky	20	0/0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,150	-0,120	-0,100	0,001	11,283	12,220	0,000	11,347	72,892	74,527	
husky	20	0/0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,360	-0,070	-0,030	0,000	21,072	26,391	0,000	23,033	74,535	75,726	
husky	20	0/0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	-0,560	-0,120	-0,020	0,004	43,621	62,496	0,000	49,6			

Tabela 12.3- Resultado da comparação entre o método JM9.8 e Proposto para RDO=0 e IBBP

P021																												
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr NVB	#Btr IPB	Total Ti	Me Tin	
akiyo	40	0/0	8	8	8	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	52,38	53	53,42	329320	669880	1096792	168	2096160	8,413	2,817
akiyo	40	0/0	18	18	18	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	45,73	47,28	48,07	154928	179832	211000	168	545928	8,14	2,908
akiyo	40	0/0	28	28	28	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	38,69	41,01	41,9	68664	41352	42376	168	252560	8,935	4,095
akiyo	40	0/0	38	38	38	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	32,06	36,04	38,22	27424	11152	12456	168	151200	11,198	6,043
foreman	40	0/0	8	8	8	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	51,14	51,63	52,1	453720	2310736	4212144	168	6976768	13,643	7,407
foreman	40	0/0	18	18	18	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	43,46	45,6	47,26	224384	799800	1208936	168	2233288	12,779	7,411
foreman	40	0/0	28	28	28	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	36,43	40,75	42	90912	239144	310616	168	640840	13,645	7,841
foreman	40	0/0	38	38	38	176x144	10	2	HEX	ON		32	1	30	CABAC	0	OFF	0	29,66	37,96	38,35	33912	70920	82888	168	287888	14,074	8,7
container	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,16	51,52	51,74	475080	2738832	4679064	168	7893144	14,112	7,717
container	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,37	44,48	44,66	238296	1050616	1514744	168	2803824	13,673	8,373
container	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	36,18	37,44	37,95	104224	324080	477776	168	906248	14,016	8,997
container	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	29,34	33,02	34,06	39688	116944	182216	168	339016	15,475	10,853
grandma	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,16	50,9	51	469416	2855808	5539560	168	8864952	13,999	6,993
grandma	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,82	43,04	43,44	226768	1036704	1780536	168	3044176	13,376	7,965
grandma	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	36,36	36,18	36,95	90200	321216	506776	168	918360	14,08	8,953
grandma	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	30,13	32,07	33,15	27920	101952	159256	168	289296	15,641	10,854
mother_daughter	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,38	51,22	51,4	374416	2394544	4604504	168	7373632	14,716	7,752
mother_daughter	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	44,42	44,16	44,83	173928	847800	1429368	168	2451264	13,919	8,259
mother_daughter	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,32	37,49	38,9	68232	258040	395424	168	721864	14,326	9,585
mother_daughter	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	30,83	33,49	35,57	23184	85320	123704	168	232376	15,746	11,243
suzie	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,12	51,68	51,71	372920	2694776	5215080	168	8282944	15,741	9,416
suzie	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,97	45,56	45,8	169224	979544	1632264	168	2781200	15,375	10,025
suzie	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,19	39,65	40,49	65152	284712	408776	168	758808	15,386	10,067
suzie	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	31,09	35,87	37,74	21144	92576	135448	168	249336	15,934	11,464
container	31	0/0	8	8	8	352x288	30	0	OFF	ON		32	1	15	CABAC	0	OFF	0	51,13	51,85	52,27	1718008	6435896	11555704	168	19709776	35,516	14,202
container	31	0/0	18	18	18	352x288	30	0	OFF	ON		32	1	15	CABAC	0	OFF	0	43,26	47,21	47,55	835096	1791712	1840280	168	4467256	32,485	14,133
container	31	0/0	28	28	28	352x288	30	0	OFF	ON		32	1	15	CABAC	0	OFF	0	36,16	42,05	41,97	334488	250752	193048	168	1278456	34,202	18,029
container	31	0/0	38	38	38	352x288	30	0	OFF	ON		32	1	15	CABAC	0	OFF	0	30,22	38,39	37,92	113000	34736	40816	168	588720	38,122	21,945
akiyo	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,99	51,16	51,38	606368	3126248	5874328	168	9607112	23,001	10,929
akiyo	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	45,41	44,83	45,78	223672	1010640	1665496	168	2899976	23,222	12,144
akiyo	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	39,75	38,66	39,78	90128	337776	539504	168	967576	23,535	12,932
akiyo	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	33,47	34,51	36,33	35696	147024	240304	168	423192	25,433	15,44
coastguard	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	50,8	51,45	51,84	1045144	8021488	15209656	168	24276456	35,921	21,707
coastguard	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	42,19	46,32	47,45	534040	3780496	6384864	168	10699568	34,245	21,838
coastguard	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	34,23	42,41	44,02	219352	1265488	1652624	168	3137632	34,64	23,783
coastguard	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	27,52	39,22	41,56	57640	194104	180168	168	432080	34,311	23,864
hall_monitor	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	51,12	51,05	51,19	796808	6187704	12907424	168	19892104	29,61	15,336
hall_monitor	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	43,37	43,6	44,5	336368	1947608	3876984	168	6161128	26,953	15,745
hall_monitor	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	37,61	37,88	39,79	117312	337048	553160	168	1007688	25,705	15,588
hall_monitor	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	31,6	34,9	37,68	46752	99568	138600	168	285088	27,777	17,771
husky	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	50,68	51,03	51,37	2008440	13680136	25732256	168	41321000	51,912	35,69
husky	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	41,58	43,51	45,55	974880	6851528	13146840	168	20973416	49,878	37,126
husky	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	32,59	37,61	42,11	536472	3170208	5532400	168	9239248	49,968	38,555
husky	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CABAC	0	OFF	0	24,04	34,04	40,10							

Tabela 13.1- Resultado da simulação do método P021 para RDO=0 e IBBP

PROPOSTO																											
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time	
akiyo	40	0.0		8	8	8 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	52,38	52,99	53,42	329320	698176	1181448	168	2209112	8,095	2,401
akiyo	40	0.0		18	18	18 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	45,61	47,25	48,04	154928	224392	324744	168	704232	7,859	2,694
akiyo	40	0.0		28	28	28 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	38,41	40,98	41,9	68664	80608	162144	168	311584	8,672	3,798
akiyo	40	0.0		38	38	38 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	32,12	36,03	38,25	27424	28056	72568	168	128216	10,475	5,432
foreman	40	0.0		8	8	8 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	51,01	51,59	52	453720	2579152	4885296	168	7918336	12,94	6,593
foreman	40	0.0		18	18	18 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	42,94	45,55	47,16	224384	988616	1684432	168	2897600	12,189	6,531
foreman	40	0.0		28	28	28 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	36,68	40,73	41,93	90912	339624	432000	168	862704	12,25	6,648
foreman	40	0.0		38	38	38 176x144	10	2	HEX	ON	32	1	30	CABAC	0	OFF	0	28,95	37,96	38,26	33912	115912	199496	168	349488	12,988	8,204
container	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,12	51,48	51,68	475080	2874528	4791880	168	8141656	13,819	7,292
container	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	43,19	44,42	44,57	238296	1133096	1622216	168	2993776	12,955	7,457
container	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,08	37,37	37,65	104224	382376	597688	168	1084456	13,074	8,586
container	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	29,16	32,89	33,98	39888	148704	275360	168	463920	14,233	9,456
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,08	50,88	50,98	489416	3020552	5821928	168	9312064	13,647	6,799
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	43,7	42,97	43,25	226768	1132896	1938616	168	3296488	12,531	6,701
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,19	36,05	36,8	90200	376832	631040	158	1086240	12,876	7,667
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	29,94	31,97	33,02	27920	133928	257640	168	419656	14,394	9,587
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,29	51,19	51,36	374416	2551968	4896176	168	7822728	13,978	7,222
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	44,17	44,09	44,72	173928	966864	1633456	168	2774416	12,854	7,055
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,87	37,41	38,87	88232	315472	512512	168	896384	13,451	8,261
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	30,68	33,33	35,45	23184	109736	206776	168	339864	14,57	9,756
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,29	51,19	51,36	374416	2551968	4896176	168	7822728	13,347	7,098
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	44,17	44,09	44,72	173928	966864	1633456	168	2774416	12,811	7,413
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	36,87	37,41	38,87	88232	315472	512512	168	896384	13,541	8,363
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	30,68	33,33	35,45	23184	109736	206776	168	339864	14,732	9,593
container	31	0.0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	51,04	51,8	52,2	171808	6819120	1236360	168	20800856	33,08	12,259
container	31	0.0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	42,97	47,18	47,52	836096	2008560	2362328	168	5206152	29,873	12,135
container	31	0.0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	36,02	42,01	41,94	334488	392056	623760	168	1350472	31,922	15,589
container	31	0.0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CABAC	0	OFF	0	30,1	38,35	37,88	113000	122304	323712	168	559184	35,404	19,129
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51,95	51,15	51,36	606368	3243624	6120216	168	9970376	22,426	9,863
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	45,21	44,69	45,64	223672	1102736	1881080	168	3207656	21,719	11,084
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	39,52	38,42	39,62	90128	398352	729032	168	1217680	21,97	12,209
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	33,55	34,33	36,09	35696	170296	308608	168	514768	23,138	13,251
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,76	51,32	51,67	1045144	8773712	16040240	168	25859264	33,547	19,026
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	41,88	46,1	47,21	534040	4320776	7082392	168	11937376	31,512	19,412
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	33,64	42,27	43,85	219352	1526320	1956792	168	3702632	31,218	19,831
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	27,07	38,84	41,48	57640	278208	390320	168	726336	31,686	21,41
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	51	50,97	51,09	796808	6533320	13611424	168	20941720	27,557	13,766
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	42,97	43,33	44,24	336368	2091688	4221416	168	6649640	26,25	14,392
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	37,45	37,66	39,62	117312	379256	716232	168	1212968	29,933	13,454
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	31,54	34,79	37,6	46752	136680	269880	168	453480	25,493	15,207
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,66	51	51,34	2008440	15961864	30668504	168	48628976	51,791	35,175
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	41,44	43,36	45,43	974880	7648296	14773912	168	23397256	49,651	35,782
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	32,23	37,53	42,09	536472	3834616	689616	168	11360872	48,804	36,377
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	23,48	33,95	40,13	220304	1289264	2075376	168	3585112	50,629	40,119
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CABAC	0	OFF	0	50,81	50,88	50,87	1646664	11750184	22846696	168	36243712	38,038	

Tabela 13.2- Resultado da simulação do método Proposto para RDO=0 e IBP

DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd 8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD=Bitr I	BD=Bitr P	BD=Bitr B		BD=Bitr IPB	Total Time Reduction	Me Time Reduction	
akiyo	40	0.0		8	8	8 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	0.000	-0.010	0.000	0.000	4.224	7.719	0.000	5.389	3.78	14.77
akiyo	40	0.0		18	18	18 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.120	-0.030	-0.030	0.000	24.779	53.907	0.000	28.997	3.45	7.36
akiyo	40	0.0		28	28	28 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.280	-0.030	0.000	0.000	94.931	282.632	0.000	23.370	2.94	7.25
akiyo	40	0.0		38	38	38 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	0.060	-0.010	0.030	0.000	151.578	482.595	0.000	-15.201	6.46	10.11
foreman	40	0.0		8	8	8 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.130	-0.040	-0.100	0.000	11.616	15.981	0.000	13.496	5.15	10.99
foreman	40	0.0		18	18	18 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.520	-0.050	-0.100	0.000	23.608	39.332	0.000	29.746	4.62	11.87
foreman	40	0.0		28	28	28 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.750	-0.020	-0.070	0.000	42.017	39.078	0.000	34.621	10.22	15.21
foreman	40	0.0		38	38	38 176x144	10	2	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.710	0.000	-0.090	0.000	63.440	140.681	0.000	21.397	7.72	5.70
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.040	-0.040	-0.060	0.000	4.955	2.411	0.000	3.148	2.08	5.51
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.180	-0.060	-0.090	0.000	7.851	7.095	0.000	6.775	5.25	10.94
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.100	-0.070	-0.100	0.000	17.988	25.098	0.000	19.664	6.72	4.57
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.180	-0.130	-0.080	0.000	27.158	51.117	0.000	36.843	8.03	12.87
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.080	-0.020	-0.020	0.000	5.769	5.097	0.000	5.044	2.51	2.77
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.120	-0.070	-0.190	0.000	9.282	8.766	0.000	8.288	6.32	15.87
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.170	-0.130	-0.150	0.000	17.314	24.520	-5.952	19.587	8.55	14.36
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.190	-0.100	-0.130	0.000	31.364	61.777	0.000	45.061	7.97	11.67
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.090	-0.030	-0.040	0.000	6.574	6.334	0.000	6.091	5.01	6.84
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.250	-0.070	-0.110	0.000	14.044	14.278	0.000	13.183	7.65	14.58
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.450	-0.080	-0.030	0.000	22.257	29.611	0.000	24.176	6.11	13.81
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.150	-0.160	-0.120	0.000	28.617	67.154	0.000	46.256	7.47	13.23
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	0.170	-0.490	-0.350	0.401	-5.299	-6.115	0.000	-5.556	15.21	24.62
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	0.200	-1.470	-1.080	2.780	-1.294	0.073	0.000	-0.244	16.68	26.05
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.320	-2.240	-1.620	4.727	10.804	25.377	0.000	18.131	11.99	16.93
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.410	-2.540	-2.290	9.648	18.536	52.661	0.000	36.308	7.54	16.32
container	95	0.0		8	8	8 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	-0.090	-0.050	-0.070	0.000	5.954	6.991	0.000	6.043	6.86	13.68
container	95	0.0		18	18	18 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	-0.290	-0.030	-0.030	0.000	12.103	26.368	0.000	16.540	8.04	14.14
container	95	0.0		28	28	28 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	-0.140	-0.040	-0.030	0.000	56.352	223.111	0.000	5.633	6.67	13.53
container	95	0.0		38	38	38 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	-0.120	-0.040	-0.040	0.000	252.096	693.101	0.000	-5.017	7.13	12.83
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.040	-0.010	-0.020	0.000	3.755	4.186	0.000	3.781	2.50	9.75
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.200	-0.140	-0.140	0.000	9.113	12.944	0.000	10.610	6.47	8.73
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.230	-0.240	-0.160	0.000	17.934	35.130	0.000	25.849	6.65	5.59
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	0.080	-0.180	-0.240	0.000	15.829	28.424	0.000	21.639	9.02	14.18
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.040	-0.130	-0.170	0.000	9.378	5.461	0.000	6.520	6.61	12.35
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.310	-0.220	-0.240	0.000	14.291	10.925	0.000	11.569	7.98	11.11
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.590	-0.140	-0.170	0.000	20.611	18.405	0.000	18.007	9.88	16.62
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.450	-0.380	-0.080	0.000	43.329	116.642	0.000	68.102	7.65	10.28
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.120	-0.080	-0.100	0.000	5.586	5.454	0.000	5.277	6.93	10.24
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.400	-0.270	-0.260	0.000	7.398	8.884	0.000	7.929	2.61	8.59
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.160	-0.220	-0.170	0.000	12.523	29.480	0.000	20.371	6.89	13.69
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.060	-0.110	-0.080	0.000	37.273	94.719	0.000	59.067	8.22	14.43
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.020	-0.030	-0.030	0.000	17.538	19.144	0.000	17.686	0.23	1.44
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.140	-0.150	-0.120	0.000	11.629	12.376	0.000	11.557	0.46	3.62
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.360	-0.080	-0.020	0.000	20.968	26.340	0.000	22.963	2.33	5.65
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.560	-0.090	-0.060	0.000	43.805	61.893	0.000	49.445	2.55	1.66
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.070	-0.010	-0.010	0.000	10.846	10.167	0.000	9.878	1.19	1.92
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CABAC	0	OFF	0	-0.260	-0.060	-0.050	0.000	11.733	12.796	0.000	11.812	-1.64	-3.33
mobile	20	0.0		2																							

Tabela 13.3- Resultado da comparação entre o método P021 e Proposto para RDO=0 e IBBP

Anexos

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Full Search																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Tmr	Me Tin
akiyo	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	52,7	53,02	53,31	83384	1761616	168	1845168	114,237	74,873
akiyo	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	45,8	47,07	47,88	39560	495736	168	535464	106,738	74,923
akiyo	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	38,46	40,78	41,73	17728	118568	168	136464	102,482	75,165
akiyo	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	31,86	35,75	37,72	7280	32008	168	39456	100,943	76,589
foreman	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	51,43	51,64	51,93	110232	7051872	168	7162272	123,41	75,612
foreman	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	43,39	45,18	46,44	53584	2472304	168	2526056	113,376	76,684
foreman	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	35,92	40,2	40,96	21960	704672	168	726800	105,839	76,566
foreman	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	10	CAVLC	1	OFF	0	29,26	37,08	37,15	214448	205800	168	214448	103,784	78,559
container	40	0/0	8	8	8	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,56	51,76	51,99	117960	3167656	168	3285784	47,719	29,091
container	40	0/0	18	18	18	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,37	44,7	44,95	59568	1193112	168	1252848	43,481	29,777
container	40	0/0	28	28	28	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,02	37,55	38,02	26384	356112	168	382664	41,034	29,525
container	40	0/0	38	38	38	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	29,15	32,55	33,45	9992	116544	168	126704	40,518	30,66
grandma	40	0/0	8	8	8	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,62	51,04	51,15	119280	3267240	168	3386688	47,818	29,906
grandma	40	0/0	18	18	18	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,91	43,3	43,71	57480	1182488	168	1240136	43,236	29,328
grandma	40	0/0	28	28	28	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	36,24	36,64	37,46	22632	379112	168	401912	41,095	29,95
grandma	40	0/0	38	38	38	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,09	32,26	33,36	7288	112352	168	119808	40,243	30,679
mother_daughter	40	0/0	8	8	8	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,92	51,5	51,71	93328	2736600	168	2830096	46,487	28,72
mother_daughter	40	0/0	18	18	18	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,56	44,52	45,25	43432	986616	168	1030216	42,861	30,046
mother_daughter	40	0/0	28	28	28	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,26	37,9	39,46	16912	309136	168	326216	40,547	29,926
mother_daughter	40	0/0	38	38	38	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	30,89	33,27	35,09	6016	95720	168	101904	39,875	30,502
suzie	40	0/0	8	8	8	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,94	52,26	52,28	103288	3070776	168	3174232	46,8	29,404
suzie	40	0/0	18	18	18	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	44,23	46,1	46,45	47704	1119392	168	1167264	42,874	29,886
suzie	40	0/0	28	28	28	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,28	40,18	40,94	18208	329592	168	347968	41,131	30,845
suzie	40	0/0	38	38	38	176x144	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	31,25	35,58	36,78	6136	101096	168	107400	40,212	31,42
container	48	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,46	51,83	52,26	439064	10819344	168	11258576	230,561	137,502
container	48	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,38	47,06	47,41	212656	2777584	168	2990408	207,251	135,427
container	48	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	35,99	41,73	41,61	86568	386328	168	473064	196,782	139,892
container	48	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	30,03	37,94	37,2	30056	54288	168	84512	192,133	143,382
akiyo	20	0/0	8	8	8	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	52,59	51,34	51,56	311752	3550928	168	3862848	86,812	54,387
akiyo	20	0/0	18	18	18	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	45,44	45,71	46,81	112864	1095752	168	1208784	79,094	55,196
akiyo	20	0/0	28	28	28	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	39,78	40,05	41,3	46528	352064	168	398760	76,809	55,718
akiyo	20	0/0	38	38	38	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	33,41	35,03	36,6	18920	133960	168	153048	76,171	56,392
coastguard	20	0/0	8	8	8	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,79	51,87	52,26	518032	8837368	168	9355568	98,062	55,447
coastguard	20	0/0	18	18	18	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,71	46,6	47,78	275104	4213872	168	4489144	89,309	55,126
coastguard	20	0/0	28	28	28	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	34,43	42,3	43,98	113752	1462816	168	1576736	81,798	56,455
coastguard	20	0/0	38	38	38	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	27,61	38,26	40,49	31944	233680	168	265792	79,187	58,544
hall_monitor	20	0/0	8	8	8	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	52,1	51,43	51,62	414352	6958616	168	7373136	92,111	55,066
hall_monitor	20	0/0	18	18	18	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	43,65	43,97	44,9	169168	2202104	168	2371440	82,547	54,675
hall_monitor	20	0/0	28	28	28	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	37,73	38,37	40,22	58872	395800	168	454840	77,545	55,168
hall_monitor	20	0/0	38	38	38	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	31,6	33,85	37,2	24176	104272	168	128616	75,968	56,635
husky	20	0/0	8	8	8	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,46	51,37	51,79	776080	13195976	168	13972224	101,831	54,737
husky	20	0/0	18	18	18	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,04	43,81	45,87	490280	7585864	168	8076312	94,969	54,704
husky	20	0/0	28	28	28	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	32,84	37,78	42,2	282904	3525512	168	3808584	88,125	55,277
husky	20	0/0	38	38	38	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	24,25	33,74	39,88	118248	1016744	168	1135160	81,076	56,419
mobile	20	0/0	8	8	8	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	51,42	51,16	51,18	693056	11423072	168	12116296	98,154	54,468
mobile	20	0/0	18	18	18	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	42,68	42,79	42,89	419320	6034800	168	6454288	90,857	54,524
mobile	20	0/0	28	28	28	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	34,2	35,24	34,91	218816	2275880	168	2494864	83,827	54,181
mobile	20	0/0	38	38	38	352x288	10	0	OFF	ON	32	1	30	CAVLC	0	OFF	0	26,36	30,23	29,69	90200	651288	168	741656	78,983	54,985

Tabela 14.1- Resultado da simulação do método Full Search para RDO=1 e IPPP

Anexos

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Sequence	#img	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	Bx8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0.0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	52,57	52,96	53,33	83384	1778368	168	1861920	38,904	1,651
akiyo	100	0.0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	45,09	47,09	47,82	39560	492016	168	531744	31,751	1,642
akiyo	100	0.0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	38,38	40,71	41,71	17728	116984	168	134880	27,219	1,964
akiyo	100	0.0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	31,78	35,84	37,8	7280	31128	168	38676	25,657	2,763
foreman	100	0.0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	51,32	51,65	51,99	110232	7123104	168	7233604	49,52	4,586
foreman	100	0.0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	43,25	45,16	46,38	53584	2520264	168	2574016	39,573	4,308
foreman	100	0.0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	35,75	40,21	40,91	21960	714672	168	736800	32,337	4,162
foreman	100	0.0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	29,15	37,07	37,03	8480	206792	168	215440	28,535	5,203
container	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,45	51,81	52,07	117960	3196528	168	3314656	19,029	1,535
container	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,28	44,71	44,98	59568	1201184	168	1260920	14,964	1,561
container	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36	37,56	38,03	26384	368360	168	384912	12,39	1,635
container	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	29,1	32,54	33,43	9992	117160	168	127320	11,142	2,006
grandma	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,56	51,04	51,15	119280	3278384	168	3397832	18,911	1,453
grandma	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,86	43,3	43,71	57480	1187128	168	1244776	14,809	1,385
grandma	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36,21	36,64	37,43	22632	378960	168	401760	12,125	1,487
grandma	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,06	32,26	33,42	7288	113320	168	120776	11,262	2,115
mother_daughter	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,83	51,5	51,73	93328	2750984	168	2844480	17,928	1,344
mother_daughter	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,44	44,53	45,27	43432	991320	168	1034920	14,204	1,23
mother_daughter	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,15	37,94	39,46	16912	309816	168	326896	11,905	1,498
mother_daughter	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,85	33,25	35,04	6016	96624	168	102808	10,936	2,24
suzie	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,89	52,3	52,32	103288	3109320	168	3212776	18,347	1,797
suzie	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,12	46,14	46,47	47704	1132248	168	1180120	14,344	1,477
suzie	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,21	40,22	41,03	18208	331048	168	349424	11,97	2,065
suzie	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,2	35,5	36,86	6136	102024	168	108328	10,95	2,371
container	48	0.0	8	8	8	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	51,34	51,86	52,29	439064	10857720	168	11296952	91,938	4,268
container	48	0.0	18	18	18	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	43,26	47,08	47,41	212656	2725296	168	2988120	71,701	4,312
container	48	0.0	28	28	28	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	35,94	41,88	41,6	86668	384984	168	471720	57,953	5,823
container	48	0.0	38	38	38	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	30,01	37,92	37,25	30056	54032	168	84256	52,531	6,255
akiyo	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,52	51,36	51,59	311752	3688384	168	3880304	32,737	1,901
akiyo	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	45,37	45,74	46,83	112864	1102048	168	1215080	25,585	2,215
akiyo	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	39,7	40,02	41,26	46528	353648	168	400344	22,235	2,295
akiyo	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	33,36	35,06	36,6	18920	133824	168	152912	21,202	2,782
coastguard	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,74	51,86	52,24	518032	8847976	168	9368176	45,483	5,027
coastguard	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,67	46,62	47,82	275104	4227160	168	4502432	37,06	4,529
coastguard	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,37	42,32	44,03	113752	1469256	168	1583176	28,797	4,252
coastguard	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	27,57	38,39	40,4	31944	240328	168	272440	23,813	4,108
hall_monitor	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,06	51,43	51,62	414352	6967528	168	7382048	39,032	3,207
hall_monitor	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,58	43,96	44,88	169168	2200080	168	2369416	29,083	2,523
hall_monitor	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,67	38,36	40,24	58872	395040	168	454080	23,936	2,619
hall_monitor	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,58	33,81	37,22	24176	103912	168	126256	22,328	3,353
husky	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,47	51,38	51,83	776080	13304536	168	14080784	53,346	8,05
husky	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	41,98	43,86	45,94	490280	7868752	168	8159200	46,329	6,686
husky	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	32,73	37,83	42,25	282904	3659464	168	3852536	38,86	6,84
husky	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	24,17	33,8	39,95	118248	1029968	168	1148384	31,437	7,757
mobile	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,4	51,17	51,2	693056	11488560	168	12181784	46,905	4,378
mobile	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,59	42,8	42,7	419320	6060880	168	6480368	39,624	4,165
mobile	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,1	35,24	34,92	218816	2274696	168	2493680	32,549	4,179
mobile	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	26,29	30,23	29,71	90200	654400	168	744768	26,594	4,818

Tabela 14.2- Resultado da simulação do método Proposto para RDO=1 e IPPP

Anexos

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														DIFERENÇA														
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY	BD SNRU	BD SNRV	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time	Me Time	Reduction	
akiyo	100	0/0		8	8	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,130	-0,060	0,020	0,000	0,951	0,000	0,908	65,944		97,795
akiyo	100	0/0		18	18	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,710	0,020	-0,060	0,000	-0,750	0,000	-0,695	70,253		97,808
akiyo	100	0/0		28	28	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,080	-0,070	-0,020	0,000	-1,336	0,000	-1,161	73,440		97,387
akiyo	100	0/0		38	38	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,080	0,090	0,080	0,000	-2,749	0,000	-2,230	74,583		96,392
foreman	100	0/0		8	8	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,110	0,010	0,060	0,000	1,010	0,000	0,995	59,874		93,961
foreman	100	0/0		18	18	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,140	-0,020	-0,060	0,000	1,940	0,000	1,899	65,096		94,382
foreman	100	0/0		28	28	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,170	0,010	-0,050	0,000	1,419	0,000	1,376	69,447		94,564
foreman	100	0/0		38	38	176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	-0,110	-0,010	-0,120	-96,046	0,482	0,000	0,463	72,505		93,377
container	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,110	0,050	0,080	0,000	0,911	0,000	0,879	60,123		94,723
container	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,090	0,010	0,030	0,000	0,677	0,000	0,644	65,539		94,758
container	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,020	0,010	0,010	0,000	0,631	0,000	0,587	69,806		94,462
container	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,050	-0,010	-0,020	0,000	0,529	0,000	0,486	72,501		93,457
grandma	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,060	0,000	0,000	0,000	0,341	0,000	0,329	60,452		95,141
grandma	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,050	0,000	0,000	0,000	0,392	0,000	0,374	66,211		95,278
grandma	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,030	0,000	-0,030	0,000	-0,040	0,000	-0,038	70,495		95,035
grandma	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,030	0,000	0,060	0,000	0,862	0,000	0,808	71,767		93,106
mother_daughter	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,090	0,000	0,020	0,000	0,526	0,000	0,508	61,434		95,320
mother_daughter	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,120	0,010	0,020	0,000	0,477	0,000	0,457	66,860		95,906
mother_daughter	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,110	0,040	0,000	0,000	0,220	0,000	0,208	70,639		94,994
mother_daughter	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,040	-0,020	-0,050	0,000	0,944	0,000	0,887	72,574		92,656
suzie	40	0/0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,050	0,040	0,040	0,000	1,255	0,000	1,214	60,797		93,889
suzie	40	0/0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,110	0,040	0,020	0,000	1,148	0,000	1,101	66,544		95,058
suzie	40	0/0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,070	0,040	0,090	0,000	0,442	0,000	0,418	70,898		93,305
suzie	40	0/0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,050	-0,080	0,080	0,000	0,918	0,000	0,864	72,769		92,454
container	48	0/0		8	8	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,120	0,030	0,030	0,000	0,365	0,000	0,341	60,124		96,896
container	48	0/0		18	18	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,120	0,020	0,000	0,000	-1,882	0,000	-0,077	65,404		96,816
container	48	0/0		28	28	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,050	-0,050	-0,010	0,000	-0,348	0,000	-0,284	70,550		95,838
container	48	0/0		38	38	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0,020	-0,020	0,050	0,000	-0,472	0,000	-0,303	72,659		95,638
akiyo	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,070	0,020	0,030	0,000	0,492	0,000	0,452	62,290		96,505
akiyo	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,070	0,030	0,020	0,000	0,575	0,000	0,521	67,678		95,987
akiyo	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,080	-0,030	-0,040	0,000	0,450	0,000	0,397	70,976		95,881
akiyo	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,050	0,030	0,000	0,000	-0,102	0,000	-0,089	72,165		95,067
coastguard	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,050	-0,010	-0,020	0,000	0,120	0,000	0,113	53,618		90,934
coastguard	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,040	0,020	0,040	0,000	0,315	0,000	0,296	58,504		91,784
coastguard	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,060	0,020	0,050	0,000	0,440	0,000	0,408	64,795		92,468
coastguard	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,040	0,130	-0,090	0,000	2,845	0,000	2,501	69,928		92,983
hall_monitor	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,040	0,000	0,000	0,000	0,128	0,000	0,121	57,625		94,176
hall_monitor	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,070	-0,010	-0,020	0,000	-0,092	0,000	-0,085	64,788		95,385
hall_monitor	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,060	-0,010	0,020	0,000	-0,192	0,000	-0,167	69,133		95,253
hall_monitor	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,020	-0,040	0,020	0,000	-0,345	0,000	-0,280	70,609		94,080
husky	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	0,010	0,010	0,040	0,000	0,823	0,000	0,777	47,613		85,293
husky	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,060	0,050	0,070	0,000	1,093	0,000	1,026	51,217		87,814
husky	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,110	0,050	0,050	0,000	1,247	0,000	1,154	55,904		87,626
husky	20	0/0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,080	0,060	0,070	0,000	1,301	0,000	1,165	61,225		86,251
mobile	20	0/0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,020	0,010	0,020	0,000	0,573	0,000	0,540	52,213		91,962
mobile	20	0/0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,090	0,010	0,010	0,000	0,432	0,000	0,404	56,389		92,361
mobile	20	0/0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0,100	0,000	0,010	0,000	-0,052	0,000	-0,047	61,171		92,287
mobile	20																											

Tabela 14.3- Resultado da comparação entre o método Proposto e Full Search para RDO=1 e IPPP

Anexos

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JM98																											
Sequence	#img	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr IPB	Total Time	Me Time	
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	51.82	52.86	53.24	81168	1538040	160	1619368	124.404	14.909
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	45.81	47.1	47.83	39552	491560	160	531272	102.746	18.155
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	38.4	40.83	41.7	17728	118104	160	135992	89.342	18.668
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	31.81	35.8	37.76	7272	30912	160	36344	80.611	20.063
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	50.9	51.46	51.81	107360	6742344	160	6849664	171.347	34.091
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	43.39	45.19	46.41	53584	2466096	160	2519840	136.55	32.963
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	35.86	40.19	40.95	21960	705048	160	727168	111.423	31.955
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10	CAVLC	1	OFF	0	29.22	37.06	37.19	8472	203408	160	212040	98.2	34.073
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.2	51.6	51.84	114904	3100080	160	3215144	65.767	12.201
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	43.36	44.7	44.98	59568	1192784	160	1252512	52.011	11.773
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	36.04	37.56	38.01	26384	358616	160	365160	42.705	11.789
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	29.11	32.52	33.45	9984	117288	160	127432	37.326	12.204
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.23	50.79	50.95	116088	3170144	160	3286392	65.06	13.461
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	43.91	43.3	43.7	57480	1183624	160	1241264	51.343	12.4
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	36.24	36.65	37.45	22632	378840	160	401632	42.952	13.365
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	30.09	32.24	33.33	7288	112640	160	120088	38.574	14.502
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.53	51.32	51.53	90788	2649384	160	2740312	63.906	14.556
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	44.56	44.52	45.29	43424	986104	160	1029688	50.453	13.322
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	37.24	37.9	38.46	16904	308456	160	325520	42.155	13.469
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	30.87	33.17	35.15	6016	95760	160	101936	37.659	13.097
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.33	52	51.99	100280	2924192	160	3024632	66.81	16.753
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	44.22	46.1	46.47	47696	1121696	160	1189552	52.515	17.209
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	37.26	40.22	40.99	18208	329752	160	348120	43.47	15.26
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	31.21	35.61	36.71	6136	101704	160	108000	38.967	15.178
container	48	0.0		8	8	8 352x288	30	0	HEX	ON		32	1	15	CAVLC	0	OFF	0	51.46	51.82	52.26	439064	10827344	168	11266576	304.86	27.98
container	48	0.0		18	18	18 352x288	30	0	HEX	ON		32	1	15	CAVLC	0	OFF	0	43.35	47.08	47.41	212656	2773552	168	2986376	234.484	29.28
container	48	0.0		28	28	28 352x288	30	0	HEX	ON		32	1	15	CAVLC	0	OFF	0	35.97	41.72	41.59	86580	388200	168	474928	189.767	32.881
container	48	0.0		38	38	38 352x288	30	0	HEX	ON		32	1	15	CAVLC	0	OFF	0	30.02	37.93	37.26	30048	54728	168	84944	170.567	35.925
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.86	50.82	51.27	299728	3346544	168	3646440	107.112	18.898
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	45.44	45.73	46.81	112864	1094344	168	1207376	88.451	23.533
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	39.76	40.1	41.28	46528	353024	168	399720	77.093	22.713
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	33.37	35.01	36.59	18920	133104	168	152192	70.796	21.671
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.23	51.76	52.15	504816	8556880	168	9060864	166.814	39.532
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	42.72	46.62	47.81	275104	4221608	168	4496880	135.69	39.115
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	34.42	42.3	43.99	113752	1468544	168	1582464	105.847	34.051
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	27.6	38.29	40.46	31944	23844	168	270456	83.592	31.349
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.5	51.31	51.48	403392	6682152	168	7085712	141.138	33.577
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	43.63	43.98	44.9	169168	2199024	168	2368360	107.074	29.488
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	37.72	38.36	40.25	58872	396472	168	455512	81.58	22.595
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	31.63	33.86	37.24	24176	105008	168	129352	71.249	20.712
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.03	51.21	51.61	764192	12932368	168	13696728	176.454	37.395
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	42.06	43.81	45.89	490280	7595472	168	8065920	158.766	35.537
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	32.84	37.81	42.2	282896	3538880	168	3821944	130.107	33.902
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	24.24	33.8	39.82	118248	1025528	168	1143944	101.842	35.03
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51.11	51.06	51.07	882824	11237392	168	11920384	157.112	28.721
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	42.89	42.78	42.88	419320	6024384	168	6443872	134.658	28.412
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	34.21	35.22	34.9	218816	2272368	168			

Tabela 15.1- Resultado da simulação do método JM9.8 para RDO=1 e IPPP

Anexos

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PROPOSTO																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	period	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRV N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0.0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	52,57	52,96	53,33	83384	1778368	168	1861920	38,904	1,651
akiyo	100	0.0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	45,08	47,09	47,82	39680	492016	168	531744	31,751	1,642
akiyo	100	0.0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	38,38	40,71	41,71	17728	116984	168	134880	27,219	1,964
akiyo	100	0.0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	31,78	35,84	37,8	7280	31128	168	38576	25,657	2,763
foreman	100	0.0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	51,32	51,65	51,99	110232	7123104	168	7233604	49,52	4,566
foreman	100	0.0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	43,25	45,16	46,38	53684	2520264	168	2574016	39,573	4,308
foreman	100	0.0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	35,75	40,21	40,91	21960	714672	168	736800	32,337	4,162
foreman	100	0.0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	29,15	37,07	37,03	8480	206792	168	215440	28,536	5,203
container	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,45	51,81	52,07	117960	3196528	168	3314656	19,029	1,535
container	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,28	44,71	44,98	59688	1201184	168	1260920	14,984	1,561
container	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36	37,56	38,03	26384	358360	168	384912	12,39	1,635
container	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	29,1	32,54	33,43	9992	117160	168	127320	11,142	2,006
grandma	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,56	51,04	51,15	119280	3278384	168	3397832	18,911	1,453
grandma	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,86	43,3	43,71	57480	1187128	168	1244776	14,609	1,385
grandma	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36,21	36,64	37,43	22632	378960	168	401760	12,125	1,487
grandma	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,06	32,26	33,42	7288	113320	168	120776	11,362	2,115
mother_daughter	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,83	51,5	51,73	93328	2750984	168	2844480	17,928	1,344
mother_daughter	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,44	44,53	45,27	43432	991320	168	1034920	14,204	1,23
mother_daughter	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,15	37,94	39,46	16912	309616	168	326896	11,905	1,498
mother_daughter	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,85	33,25	35,04	6016	96624	168	102808	10,936	2,24
suzie	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,89	52,3	52,32	103288	3109320	168	3212776	18,347	1,797
suzie	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,12	46,14	46,47	47704	1132248	168	1180120	14,344	1,477
suzie	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,21	40,22	41,03	18208	331048	168	349424	11,97	2,065
suzie	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,2	35,5	36,86	6136	102024	168	108328	10,95	2,371
container	48	0.0	8	8	8	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	51,34	51,86	52,29	439064	10857720	168	11296952	91,938	4,268
container	48	0.0	18	18	18	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	43,26	47,08	47,41	212656	2725296	168	2988120	71,701	4,312
container	48	0.0	28	28	28	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	35,94	41,68	41,6	86588	384984	168	471720	57,953	5,823
container	48	0.0	38	38	38	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	30,01	37,92	37,25	30056	54032	168	84256	52,531	6,255
akiyo	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,52	51,36	51,59	311752	3568384	168	3880304	32,737	1,901
akiyo	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	45,37	45,74	46,83	112864	1102048	168	1215080	25,565	2,215
akiyo	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	39,7	40,02	41,26	46528	353648	168	400344	22,235	2,295
akiyo	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	33,36	35,06	36,6	18920	133824	168	152912	21,202	2,782
coastguard	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,74	51,86	52,24	518032	8847976	168	9366176	45,483	5,027
coastguard	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,67	46,62	47,82	275104	4227160	168	4502432	37,06	4,529
coastguard	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,37	42,32	44,03	113752	1489256	168	1583176	28,797	4,252
coastguard	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	27,57	38,39	40,4	31944	240328	168	272440	23,813	4,108
hall_monitor	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,06	51,43	51,62	414352	6967528	168	7382048	39,032	3,207
hall_monitor	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,58	43,96	44,88	169168	2200080	168	2369416	29,083	2,523
hall_monitor	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,67	38,36	40,24	58872	395040	168	454080	23,936	2,619
hall_monitor	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,58	33,81	37,22	24176	103912	168	126256	22,328	3,353
husky	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,47	51,38	51,83	776080	13304536	168	14080784	53,346	8,05
husky	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	41,98	43,86	45,94	490280	7688752	168	8159200	46,329	6,886
husky	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	32,73	37,83	42,25	282904	3669464	168	3852536	38,86	6,84
husky	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	24,17	33,8	39,95	118248	1029968	168	1146384	31,437	7,757
mobile	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,4	51,17	51,2	683056	11488560	168	12181784	46,905	4,378
mobile	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,59	42,8	42,7	419320	6060880	168	6480368	39,624	4,165
mobile	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,1	36,24	34,92	218816	2274696	168	2493680	32,549	4,179
mobile	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	26,29	30,23	29,71	90200	654400	168	744768	26,594	4,818

Tabela 15.2- Resultado da simulação do método Proposto para RDO=1 e IPPP

Anexos

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DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.750	0.100	0.090	2.730	15.626	5,000	14.978	68.73	88.93	
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.720	-0.010	-0.010	0.020	0.093	5,000	0.089	69.10	90.96	
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.020	-0.120	0.010	0.000	-0.948	5,000	-0.818	69.53	89.48	
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.030	0.040	0.040	0.110	0.699	5,000	0.605	68.17	86.23	
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.420	0.190	0.180	2.675	5.647	5,000	5.601	71.10	86.61	
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.140	-0.030	-0.030	0.000	2.197	5,000	2.150	71.02	86.93	
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.110	0.020	-0.040	0.000	1.365	5,000	1.325	70.98	86.98	
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.070	0.010	-0.160	0.084	1.664	5,000	1.603	70.94	84.73	
container	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.250	0.210	0.230	2.660	3.111	5,000	3.095	71.07	87.42	
container	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.010	0.000	0.000	0.704	5,000	0.671	71.19	86.74	
container	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	0.000	0.020	0.000	-0.071	5,000	-0.064	70.99	86.13	
container	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.020	-0.020	0.080	-0.109	5,000	-0.088	70.15	83.56	
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.330	0.250	0.200	2.750	3.414	5,000	3.391	70.93	89.21	
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.010	0.000	0.296	5,000	0.283	71.55	88.83	
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	-0.010	-0.020	0.000	0.032	5,000	0.032	71.77	88.87	
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.020	0.090	0.000	0.604	5,000	0.573	70.54	85.42	
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.300	0.180	0.200	2.820	3.835	5,000	3.801	71.95	90.77	
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.120	0.010	-0.020	0.018	0.529	5,000	0.508	71.85	90.77	
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.040	0.000	0.047	0.441	5,000	0.423	71.76	88.88	
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.020	0.080	-0.110	0.000	0.902	5,000	0.855	70.96	82.90	
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.560	0.300	0.330	3.000	6.331	5,000	6.220	72.54	89.27	
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.100	0.040	0.000	0.017	0.941	5,000	0.904	72.69	91.42	
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.040	0.000	0.393	5,000	0.375	72.46	86.47	
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	-0.110	0.150	0.000	0.315	5,000	0.304	71.90	84.38	
container	48	0.0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.120	0.040	0.030	0.000	0.281	0,000	0.270	69.84	84.75	
container	48	0.0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.080	0.000	0.000	0.000	-1.740	0,000	0.058	69.42	85.27	
container	48	0.0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.030	-0.040	0.010	0.009	-0.828	0,000	-0.675	69.46	82.29	
container	48	0.0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.010	-0.010	-0.010	0.027	-1.272	0,000	-0.810	69.20	82.59	
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.660	0.540	0.320	4.012	6.629	0,000	6.413	69.44	89.94	
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	0.010	0.020	0.000	0.704	0,000	0.638	71.10	90.59	
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.060	-0.080	-0.020	0.000	0.177	0,000	0.156	71.16	89.90	
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.050	0.010	0.000	0.541	0,000	0.473	70.05	87.16	
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.510	0.100	0.080	2.618	3.414	0,000	3.370	72.73	87.28	
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.010	0.000	0.132	0,000	0.123	72.69	88.42	
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.020	0.040	0.000	0.048	0,000	0.045	72.79	87.51	
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.100	-0.060	0.000	907.918	0,000	0.734	71.51	86.90	
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.560	0.120	0.140	2.717	4.271	0,000	4.182	72.34	90.45	
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.020	-0.020	0.000	0.048	0,000	0.045	72.84	91.44	
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	-0.010	0.000	-0.361	0,000	-0.314	70.66	88.41	
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.050	-0.020	0.000	-1.044	0,000	-0.847	68.66	83.81	
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.440	0.170	0.220	1.556	2.878	0,000	2.804	69.77	78.47	
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.050	0.050	0.000	0.965	0,000	0.906	70.82	81.24	
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.110	0.020	0.050	0.003	0.864	0,000	0.800	70.13	79.62	
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	0.000	0.130	0.000	0.433	0,000	0.388	69.13	77.86	
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.290	0.110	0.130	1.498	2.235	0,000	2.193	70.15	84.76	
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.100	0.020	0.020	0.000	0.606	0,000	0.566	70.57	85.34	
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.110	0.020	0.020	0.000	0.102	0,000	0.093	70.14	84.76	
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.030	0.020	0.000	0.510	0,000	0.448	70.48	82.63	
																		BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
																		Média	0.044	0.051	0.049	0.614	20.323	2.500	1.435	70.812	86.530

Tabela 15.3- Resultado da comparação entre o método Proposto e JM9.8 para RDO=1 e IPPP

Anexos

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P021																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr PB	Total Time	Me Time
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	52,57	52,97	53,35	83384	1775368	168	1669920	38,361	1,802
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	45,76	47,1	47,85	39560	495752	168	535480	31,146	1,889
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	38,45	40,73	41,71	17728	117976	168	135872	27,081	2,25
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	31,78	35,73	37,84	7280	31384	168	38832	25,469	3,336
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	51,41	51,63	51,96	110232	7024536	168	7134936	49,249	4,387
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	43,37	45,16	46,41	53584	2472400	168	2526152	39,172	4,513
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	35,84	40,25	41	21960	711336	168	733464	32,705	5,059
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	1	OFF	0	29,11	37,07	37,08	8480	207064	168	215712	28,61	5,77
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,52	51,78	52,05	117960	3182856	168	3300984	19,196	1,52
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43,34	44,7	44,96	59568	1195256	168	1254992	15,172	1,738
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36,04	37,54	38,01	26384	359808	168	366360	12,578	1,996
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	29,11	32,52	33,38	9992	117104	168	127264	11,422	1,97
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,61	51,02	51,15	119280	3276784	168	3396232	18,832	1,592
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43,9	43,31	43,73	57480	1187616	168	1245264	14,8	1,837
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36,22	36,62	37,41	22632	378928	168	401728	12,343	1,812
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30,06	32,26	33,4	7288	113088	168	120544	11,236	2,178
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,88	51,51	51,73	93328	2741008	168	2834504	18,471	1,522
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44,52	44,51	45,24	43432	986752	168	1030352	14,419	1,623
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37,21	37,92	39,44	16912	310240	168	327320	12,123	1,878
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30,86	33,25	35,07	6016	96488	168	102672	11,194	2,223
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,92	52,27	52,29	103288	3082944	168	3186400	18,866	2,351
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44,19	46,12	46,48	47704	1126312	168	1174184	14,662	1,881
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37,23	40,2	40,95	18208	329816	168	348192	12,238	2,163
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31,19	35,49	36,8	6136	101824	168	108128	11,224	2,578
container	48	0.0		8	8	8 352x288	30	0	HEX	ON		32	1	15 CAVLC	0	OFF	0	51,34	51,86	52,29	439064	10857720	168	11296952	91,938	4,268
container	48	0.0		18	18	18 352x288	30	0	HEX	ON		32	1	15 CAVLC	0	OFF	0	43,26	47,08	47,41	212656	2725296	168	2988120	71,701	4,312
container	48	0.0		28	28	28 352x288	30	0	HEX	ON		32	1	15 CAVLC	0	OFF	0	35,94	41,68	41,6	86568	384984	168	471720	57,953	5,823
container	48	0.0		38	38	38 352x288	30	0	HEX	ON		32	1	15 CAVLC	0	OFF	0	30,01	37,92	37,25	30056	54032	168	84256	52,531	6,255
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	52,55	51,35	51,58	311752	3662280	168	3874200	32,794	2,207
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	45,42	45,75	46,83	112864	1102264	168	1215296	25,782	2,444
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	39,7	40	41,22	46528	353232	168	399928	22,689	2,831
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	33,36	35,03	36,6	18920	133656	168	152744	21,532	2,963
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,79	51,88	52,25	518032	8839032	168	9367232	46,499	5,355
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42,71	46,62	47,81	275104	4221720	168	4496892	37,284	5,344
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34,41	42,33	43,99	113752	1471696	168	1585616	29,628	5,2
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	27,57	38,18	40,46	31944	238520	168	270632	24,903	5,318
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	52,09	51,42	51,6	414352	6960880	168	7375400	39,417	3,84
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43,63	43,96	44,91	169168	2203480	168	2372816	29,637	3,34
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37,71	38,35	40,21	58872	395704	168	454744	23,922	2,698
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31,57	33,81	37,2	24176	104048	168	128392	21,891	3,363
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,48	51,36	51,79	776080	13209692	168	13985840	53,438	7,691
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42,05	43,82	45,88	490280	7599232	168	8089680	46,421	7,795
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	32,83	37,82	42,23	282904	3543136	168	3826208	39,018	7,783
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	24,24	33,8	39,89	118248	1027224	168	1145640	31,578	8,267
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51,43	51,17	51,18	693056	11420720	168	12113944	47,094	4,574
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42,68	42,78	42,69	419320	6028192	168	6447680	39,456	4,607
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34,18	35,22	34,89	218816	2266856	168	2485840	32,592	4,91
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	26,35	30,21	29,69	90200	653064	168	743432	26,969	5,021

Tabela 16.1- Resultado da simulação do método P021 para RDO=1 e IPPP

Anexos

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PROPOSTO																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmnd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	Bx8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0.0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	52,57	52,96	53,33	83384	1778368	168	1861920	38,904	1,651
akiyo	100	0.0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	45,09	47,09	47,82	39560	492016	168	531744	31,751	1,642
akiyo	100	0.0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	38,38	40,71	41,71	17728	116884	168	134880	27,219	1,964
akiyo	100	0.0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	31,78	35,84	37,8	7280	31128	168	38576	25,657	2,763
foreman	100	0.0	8	8	8	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	51,32	51,65	51,99	110232	7123104	168	7233504	49,52	4,566
foreman	100	0.0	18	18	18	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	43,25	45,16	46,38	53584	2520264	168	2574016	39,573	4,308
foreman	100	0.0	28	28	28	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	35,75	40,21	40,91	21960	714672	168	736800	32,337	4,162
foreman	100	0.0	38	38	38	176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	29,15	37,07	37,03	8480	206792	168	215440	26,535	5,203
container	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,45	51,81	52,07	117960	3196528	168	3314656	19,029	1,535
container	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,28	44,71	44,98	59568	1201184	168	1260920	14,984	1,561
container	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36	37,56	38,03	26384	358360	168	364912	12,39	1,635
container	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	29,1	32,54	33,43	9992	117160	168	127320	11,142	2,006
grandma	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,56	51,04	51,15	119280	3278384	168	3397832	18,911	1,453
grandma	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,86	43,3	43,71	57480	1187128	168	1244776	14,609	1,385
grandma	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36,21	36,64	37,43	22632	378960	168	401760	12,125	1,487
grandma	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,06	32,26	33,42	7288	113320	168	120776	11,362	2,115
mother_daughter	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,83	51,5	51,73	93328	2750984	168	2844480	17,928	1,344
mother_daughter	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,44	44,53	45,27	43432	991320	168	1034920	14,204	1,23
mother_daughter	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,15	37,94	39,46	16912	309816	168	326896	11,905	1,498
mother_daughter	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,85	33,25	35,04	6016	96624	168	102808	10,936	2,24
suzie	40	0.0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,89	52,3	52,32	103288	3109320	168	3212776	18,347	1,797
suzie	40	0.0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,12	46,14	46,47	47704	1132248	168	1180120	14,344	1,477
suzie	40	0.0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,21	40,22	41,03	18208	331048	168	349424	11,97	2,065
suzie	40	0.0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,2	35,5	36,86	6136	102024	168	108328	10,95	2,371
container	48	0.0	8	8	8	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	51,34	51,86	52,29	439064	10857720	168	11296952	91,938	4,268
container	48	0.0	18	18	18	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	43,26	47,08	47,41	212656	2725296	168	2988120	71,701	4,312
container	48	0.0	28	28	28	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	35,94	41,68	41,6	86568	384984	168	471720	57,953	5,823
container	48	0.0	38	38	38	352x288	30	0	HEX	ON	32	1	15	CAVLC	0	OFF	0	30,01	37,92	37,25	30056	54032	168	84256	52,531	6,255
akiyo	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,52	51,36	51,59	311752	3568384	168	3880304	32,737	1,901
akiyo	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	45,37	45,74	46,83	112864	1102048	168	1215080	25,565	2,215
akiyo	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	39,7	40,02	41,26	46528	353648	168	400344	22,235	2,295
akiyo	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	33,36	35,06	36,6	18920	133824	168	152912	21,202	2,782
coastguard	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,74	51,86	52,24	518032	8847976	168	9366176	45,483	5,027
coastguard	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,67	46,62	47,82	275104	4227160	168	4502432	37,06	4,529
coastguard	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,37	42,32	44,03	113752	1468256	168	1583176	28,797	4,252
coastguard	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	27,57	38,39	40,4	31944	240328	168	272440	23,813	4,108
hall_monitor	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,06	51,43	51,62	414352	6967528	168	7382048	39,032	3,207
hall_monitor	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,58	43,96	44,88	169168	2200080	168	2369416	29,083	2,523
hall_monitor	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,67	38,36	40,24	58872	395040	168	454080	23,936	2,619
hall_monitor	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,58	33,81	37,22	24176	103912	168	128256	22,328	3,353
husky	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,47	51,38	51,83	776080	13304536	168	14080784	53,346	8,05
husky	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	41,98	43,86	45,94	490280	7688752	168	8169200	46,329	6,686
husky	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	32,73	37,83	42,25	282904	3569464	168	3852536	38,86	6,84
husky	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	24,17	33,8	39,95	118248	1029968	168	1148384	31,437	7,757
mobile	20	0.0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,4	51,17	51,2	693056	11486660	168	12181784	46,905	4,378
mobile	20	0.0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,59	42,8	42,7	419320	6060880	168	6480368	39,624	4,165
mobile	20	0.0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,1	35,24	34,92	218816	2274696	168	2493680	32,549	4,179
mobile	20	0.0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	26,29	30,23	29,71	90200	654400	168	744768	26,594	4,818

Tabela 16.2- Resultado da simulação do método Proposto para RDO=1 e IPPP

Anexos

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DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.000	-0.010	-0.020	0.000	-0.169	0.000	-0.161	-1.42	8.38	
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.670	-0.010	-0.030	0.000	0.754	0.000	0.698	-1.94	13.08	
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.070	-0.020	0.000	0.000	0.841	0.000	0.730	-0.51	12.71	
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.000	0.110	-0.040	0.000	0.816	0.000	0.659	-0.74	17.18	
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.090	0.020	0.030	0.000	-1.403	0.000	-1.381	-0.55	-4.08	
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.120	0.000	-0.030	0.000	-1.936	0.000	-1.895	-1.02	4.54	
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.090	-0.040	-0.090	0.000	-0.469	0.000	-0.455	1.13	17.73	
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.040	0.000	-0.050	0.000	0.131	0.000	0.126	0.26	9.83	
container	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	0.030	0.020	0.000	-0.430	0.000	-0.414	0.87	-0.99	
container	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.060	0.010	0.020	0.000	-0.496	0.000	-0.472	1.24	10.18	
container	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	0.020	0.020	0.000	0.402	0.000	0.375	1.49	18.09	
container	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.020	0.050	0.000	-0.048	0.000	-0.044	2.45	-1.83	
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.020	0.000	0.000	-0.049	0.000	-0.047	-0.42	8.73	
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	-0.010	-0.020	0.000	0.041	0.000	0.039	1.29	24.61	
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.020	0.020	0.000	-0.008	0.000	-0.008	1.77	17.94	
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.000	0.000	0.020	0.000	-0.205	0.000	-0.192	-1.12	2.89	
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.010	0.000	0.000	-0.364	0.000	-0.352	2.94	11.70	
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.020	0.030	0.000	-0.463	0.000	-0.443	1.49	24.21	
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.060	0.020	0.020	0.000	0.137	0.000	0.130	1.80	20.23	
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.000	-0.030	0.000	-0.141	0.000	-0.132	2.30	-0.76	
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.030	0.030	0.000	-0.866	0.000	-0.828	2.70	23.56	
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	0.020	-0.010	0.000	-0.527	0.000	-0.506	2.17	21.48	
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.020	0.020	0.080	0.000	-0.374	0.000	-0.354	2.19	4.53	
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.010	0.010	0.060	0.000	-0.196	0.000	-0.185	2.44	8.03	
container	48	0.0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	
container	48	0.0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	
container	48	0.0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	
container	48	0.0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.010	0.010	0.000	-0.171	0.000	-0.158	0.17	13.86	
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.010	0.000	0.000	0.020	0.000	0.018	0.84	9.37	
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.000	0.020	0.040	0.000	-0.118	0.000	-0.104	2.00	18.93	
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.000	0.030	0.000	0.000	-0.126	0.000	-0.110	1.53	6.11	
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.020	-0.010	0.000	-0.101	0.000	-0.096	2.18	6.13	
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	0.000	0.010	0.000	-0.129	0.000	-0.121	0.60	15.25	
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	-0.010	0.040	0.000	0.166	0.000	0.154	2.80	18.23	
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.000	0.210	-0.060	0.000	-0.758	0.000	-0.688	4.38	22.75	
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.010	0.020	0.000	-0.096	0.000	-0.090	0.98	16.48	
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	-0.030	0.000	0.154	0.000	0.143	1.87	24.46	
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	0.010	0.030	0.000	0.168	0.000	0.146	-0.06	2.93	
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.010	0.000	0.020	0.000	0.131	0.000	0.106	-2.00	0.30	
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.020	0.040	0.000	-0.719	0.000	-0.679	0.17	-4.67	
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	0.040	0.060	0.000	-0.915	0.000	-0.869	0.20	14.48	
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.100	0.010	0.020	0.000	-0.743	0.000	-0.688	0.40	12.12	
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	0.000	0.060	0.000	-0.267	0.000	-0.240	0.45	6.17	
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.000	0.020	0.000	-0.594	0.000	-0.560	0.40	4.29	
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.090	0.020	0.010	0.000	-0.542	0.000	-0.507	-0.43	9.59	
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.020	0.030	0.000	-0.346	0.000	-0.315	0.13	14.89	
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.060	0.020	0.020	0.000	-0.205	0.000	-0.180	1.39	4.04	
																		BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
																		Média	-0.050	0.014	0.009	0.000	-0.213	0.000	-0.207	0.809	10.160

Tabela 16.3- Resultado da comparação entre o método Proposto e P021 para RDO=1 e IPPP

Anexos

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Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	Full Search			SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
															RD-opt	Intra upd	8x8Tr									
akiyo	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	52,7	53,02	53,32	83384	1759808	168	1843360	117,339	76,383
akiyo	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	45,8	47,07	47,87	39560	494040	168	533768	106,781	74,631
akiyo	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	38,46	40,78	41,73	17728	118568	168	136464	103,804	76,97
akiyo	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	31,86	36,75	37,72	7280	32008	168	39456	102,908	77,92
foreman	100	0/0	8	8	8	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	51,43	51,64	51,93	110232	7051720	168	7162120	123,719	75,248
foreman	100	0/0	18	18	18	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	43,39	45,19	46,43	53584	2469416	168	2523168	113,053	75,495
foreman	100	0/0	28	28	28	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	36,91	40,22	41	21960	702304	168	724432	106,381	77,143
foreman	100	0/0	38	38	38	176x144	30	0	OFF	ON	32	1	10	CAVLC	2	OFF	0	29,26	37,08	37,15	8480	205784	168	214432	104,108	78,633
container	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,56	51,76	51,99	117960	3167664	168	3286792	47,637	29,563
container	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,38	44,7	44,95	59568	1193704	168	1253440	43,206	29,512
container	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36,02	37,55	38,02	26384	356112	168	382664	41,096	29,643
container	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	29,15	32,55	33,45	9992	116544	168	126704	39,813	29,86
grandma	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,62	51,04	51,15	119280	3267240	168	3386688	47,061	30,168
grandma	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,91	43,3	43,71	57480	1182232	168	1239880	43,498	29,696
grandma	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	36,24	36,64	37,46	22632	379120	168	401920	40,7	30,015
grandma	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,09	32,26	33,36	7288	112362	168	119808	40,717	31,021
mother_daughter	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,92	51,5	51,71	93328	2736600	168	2830086	46,169	28,9
mother_daughter	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,56	44,52	45,26	43432	986800	168	1030200	45,502	30,88
mother_daughter	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,26	37,9	39,46	16912	309136	168	326216	41,121	30,179
mother_daughter	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	30,89	33,27	35,09	6016	95720	168	101904	40,576	30,459
suzie	40	0/0	8	8	8	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,94	52,26	52,28	103288	3070776	168	3174232	47,077	29,354
suzie	40	0/0	18	18	18	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	44,23	46,1	46,45	47704	1119400	168	1167272	42,939	29,445
suzie	40	0/0	28	28	28	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,28	40,18	40,94	18208	329584	168	347960	40,737	29,776
suzie	40	0/0	38	38	38	176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,25	35,58	36,78	6136	101096	168	107400	40,346	30,748
container	48	0/0	8	8	8	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	51,46	51,83	52,26	439064	10819344	168	11259576	230,191	136,013
container	48	0/0	18	18	18	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	43,38	47,07	47,41	212666	2776000	168	2988824	209,639	136,76
container	48	0/0	28	28	28	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	36,99	41,73	41,61	86568	386304	168	473040	201,706	142,633
container	48	0/0	38	38	38	352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	30,03	37,94	37,2	30056	54288	168	84512	193,546	144,307
akiyo	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,69	51,34	51,56	311752	3551188	168	3863088	87,047	54,94
akiyo	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	45,44	45,71	46,81	112864	1095752	168	1208784	79,5	54,567
akiyo	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	39,78	40,05	41,3	46528	352064	168	398760	76,921	56,594
akiyo	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	33,41	35,03	36,6	18920	133960	168	153048	76,687	57,253
coastguard	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,79	51,87	52,26	518032	8837388	168	9355568	97,469	56,2
coastguard	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,71	46,6	47,78	275104	4213872	168	4489144	88,783	55,348
coastguard	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,43	42,29	43,97	113752	1461816	168	1575736	82,657	57,109
coastguard	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	27,61	38,26	40,49	31944	233680	168	266792	79,157	58,695
hall_monitor	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	52,1	51,43	51,62	414352	6868616	168	7373136	98,313	57,42
hall_monitor	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	43,66	43,97	44,9	169168	2202296	168	2371632	84,966	55
hall_monitor	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	37,73	38,37	40,22	58872	395800	168	454840	79,034	56,311
hall_monitor	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	31,6	33,85	37,2	24176	104272	168	128616	76,985	56,307
husky	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,46	51,37	51,79	776080	13195976	168	13972224	102,548	54,7
husky	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,04	43,81	45,87	490280	7585864	168	8076312	95,638	55,156
husky	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	32,84	37,78	42,21	262904	3525312	168	3808384	89,047	54,912
husky	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	24,25	33,74	39,89	118248	1016032	168	1134448	81,547	56,494
mobile	20	0/0	8	8	8	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	51,42	51,16	51,18	683056	11423072	168	12116296	98,516	54,999
mobile	20	0/0	18	18	18	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	42,68	42,79	42,69	419320	6034800	168	6454288	91,797	55,478
mobile	20	0/0	28	28	28	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	34,2	36,24	34,91	218816	2275576	168	2494560	84,64	55,004
mobile	20	0/0	38	38	38	352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	26,36	30,24	29,69	90200	651512	168	741880	79,563	55,847

Tabela 17.1- Resultado da simulação do método Full Search para RDO=2 e IPPP

Anexos

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PROPOSTO																											
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRV N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr PB	Total Time	Me Time	
akiyo	100	0/0	8	8	8	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	52,56	52,98	53,32	83384	1779232	168	1862784	38,649	1,374
akiyo	100	0/0	18	18	18	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	45,72	47,12	47,83	39560	492328	168	532056	31,401	1,552
akiyo	100	0/0	28	28	28	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	38,38	40,71	41,71	17728	116984	168	134880	27,292	1,983
akiyo	100	0/0	38	38	38	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	31,78	35,84	37,8	7280	31128	168	38576	25,547	3,065
foreman	100	0/0	8	8	8	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	51,32	51,65	51,99	110232	7123104	168	7233504	49,284	4,27
foreman	100	0/0	18	18	18	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	43,25	45,18	46,4	53584	2517008	168	2570760	39,359	4,276
foreman	100	0/0	28	28	28	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	35,76	40,16	40,93	21960	715816	168	737944	32,012	4,432
foreman	100	0/0	38	38	38	176x144	30	0	HEX	ON		32	1	10	CAVLC	2	OFF	0	29,15	37,07	37,03	8480	206792	168	215440	28,226	5,012
container	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,45	51,81	52,07	117980	3196528	168	3314656	19,079	1,282
container	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	43,28	44,71	44,98	59568	1201184	168	1260920	15,065	1,616
container	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	36	37,56	38,03	26384	368360	168	384912	12,39	1,635
container	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	29,1	32,54	33,43	9992	117160	168	127320	11,206	1,844
grandma	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,56	51,04	51,15	119280	3278384	168	3387832	18,67	1,411
grandma	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	43,86	43,3	43,71	57480	1187208	168	1244856	14,572	1,44
grandma	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	36,21	36,64	37,43	22632	378960	168	401760	12,138	1,479
grandma	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	30,06	32,26	33,42	7288	113320	168	120776	11,09	2,103
mother_daughter	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,83	51,5	51,73	93328	2750984	168	2844480	18,122	1,593
mother_daughter	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	44,44	44,53	45,27	43432	991320	168	1034920	14,391	1,575
mother_daughter	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	37,15	37,94	39,46	16912	309816	168	326896	11,887	1,761
mother_daughter	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	30,85	33,25	35,04	6016	96624	168	102808	10,968	1,757
suzie	40	0/0	8	8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,89	52,3	52,32	103288	3109320	168	3212776	18,453	2,357
suzie	40	0/0	18	18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	44,12	46,14	46,47	47704	1132248	168	1180120	14,328	1,846
suzie	40	0/0	28	28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	37,21	40,22	41,03	18208	331048	168	349424	11,955	1,712
suzie	40	0/0	38	38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	31,2	35,5	36,86	6136	102024	168	108328	10,974	2,178
container	48	0/0	8	8	8	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	51,34	51,86	52,29	439064	10867720	168	11296952	93,109	4,055
container	48	0/0	18	18	18	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	43,26	47,08	47,41	212656	2725296	168	2988120	71,786	4,353
container	48	0/0	28	28	28	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	35,94	41,68	41,6	86568	384912	168	471648	58,323	5,067
container	48	0/0	38	38	38	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	30,01	37,92	37,25	30056	54032	168	84256	52,297	6,19
akiyo	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	52,52	51,36	51,59	311752	3568440	168	3880360	33,515	1,624
akiyo	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	45,37	45,74	46,83	112864	1102048	168	1215080	25,095	2,061
akiyo	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	39,7	40,02	41,26	46528	353648	168	400344	21,981	2,152
akiyo	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	33,36	35,06	36,6	18920	133824	168	152912	21,002	3,049
coastguard	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,74	51,86	52,24	518032	8847976	168	9366176	45,062	4,552
coastguard	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	42,67	46,62	47,82	275104	4227160	168	4502432	36,501	4,531
coastguard	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	34,37	42,32	44,03	113752	1469256	168	1593176	28,782	4,108
coastguard	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	27,57	38,39	40,4	31944	240328	168	272440	23,734	4,845
hall_monitor	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	52,06	51,43	51,62	414352	6967528	168	7382048	38,798	2,996
hall_monitor	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	43,58	43,96	44,88	169168	2200080	168	2369416	29,094	2,532
hall_monitor	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	37,67	38,36	40,24	58872	395104	168	454144	23,28	2,512
hall_monitor	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	31,58	33,81	37,22	24176	103912	168	126256	21,482	3,018
husky	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,47	51,38	51,83	776080	13304536	168	14080784	52,955	8,251
husky	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	41,98	43,86	45,94	490280	768752	168	8159200	45,923	7,037
husky	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	32,73	37,83	42,25	282904	3559464	168	3852536	38,471	7,254
husky	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	24,17	33,8	39,95	118248	1029968	168	1148384	31,268	7,315
mobile	20	0/0	8	8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	51,4	51,17	51,2	693056	11488560	168	12181784	46,455	4,246
mobile	20	0/0	18	18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	42,59	42,8	42,7	419320	6060880	168	6480368	38,874	3,969
mobile	20	0/0	28	28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	34,1	35,24	34,92	218816	2274696	168	2493680	32,329	4,053
mobile	20	0/0	38	38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	26,29	30,23	29,71	90200	654380	168	744728	26,517	4,483

Tabela 17.2- Resultado da simulação do método Proposto para RDO=2 e IPPP

Anexos

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DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
akiyo	100	0.0		8	8	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.140	-0.040	0.000	0.000	1.104	0.000	1.054	67.06	98.20
akiyo	100	0.0		18	18	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.080	0.050	-0.040	0.000	-0.347	0.000	-0.321	70.59	97.92
akiyo	100	0.0		28	28	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.080	-0.070	-0.020	0.000	-1.336	0.000	-1.161	73.66	97.42
akiyo	100	0.0		38	38	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.080	0.080	0.080	0.000	-2.749	0.000	-2.230	75.17	96.07
foreman	100	0.0		8	8	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.110	0.010	0.060	0.000	1.012	0.000	0.997	60.16	94.33
foreman	100	0.0		18	18	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.140	-0.010	-0.030	0.000	1.927	0.000	1.886	65.19	94.34
foreman	100	0.0		28	28	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.150	-0.060	-0.070	0.000	1.924	0.000	1.865	69.91	94.25
foreman	100	0.0		38	38	176x144	30	0	OFF	ON		32	1	10	CAVLC	2	OFF	0	-0.110	-0.010	-0.120	0.000	0.490	0.000	0.470	72.89	93.63
container	40	0.0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.110	0.050	0.080	0.000	0.911	0.000	0.878	59.95	95.66
container	40	0.0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.100	0.010	0.030	0.000	0.627	0.000	0.597	65.13	94.52
container	40	0.0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.020	0.010	0.010	0.000	0.631	0.000	0.587	69.85	94.48
container	40	0.0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.050	-0.010	-0.020	0.000	0.529	0.000	0.486	71.85	93.82
grandma	40	0.0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.060	0.000	0.000	0.000	0.341	0.000	0.329	60.33	95.32
grandma	40	0.0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.000	0.000	0.421	0.000	0.401	66.27	95.13
grandma	40	0.0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.030	0.000	-0.030	0.000	-0.042	0.000	-0.040	70.18	95.07
grandma	40	0.0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.030	0.000	0.060	0.000	0.862	0.000	0.808	72.76	93.22
mother_daughter	40	0.0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.090	0.000	0.020	0.000	0.526	0.000	0.508	60.75	94.49
mother_daughter	40	0.0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.120	0.010	0.010	0.000	0.478	0.000	0.458	68.37	94.90
mother_daughter	40	0.0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.110	0.040	0.000	0.000	0.220	0.000	0.208	71.09	94.16
mother_daughter	40	0.0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.040	-0.020	-0.050	0.000	0.944	0.000	0.887	72.97	94.23
suzie	40	0.0		8	8	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.050	0.040	0.040	0.000	1.255	0.000	1.214	60.80	91.97
suzie	40	0.0		18	18	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.110	0.040	0.020	0.000	1.148	0.000	1.101	66.63	93.73
suzie	40	0.0		28	28	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.070	0.040	0.080	0.000	0.444	0.000	0.421	70.65	94.25
suzie	40	0.0		38	38	176x144	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.050	-0.080	0.080	0.000	0.918	0.000	0.864	72.80	92.92
container	48	0.0		8	8	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0.120	0.030	0.030	0.000	0.355	0.000	0.341	59.55	97.02
container	48	0.0		18	18	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0.120	0.010	0.000	0.000	-1.827	0.000	-0.024	65.76	96.82
container	48	0.0		28	28	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0.050	-0.050	-0.010	0.000	-0.360	0.000	-0.294	71.09	96.45
container	48	0.0		38	38	352x288	30	0	OFF	ON		32	1	15	CAVLC	0	OFF	0	-0.020	-0.020	0.050	0.000	-0.472	0.000	-0.303	72.98	95.71
akiyo	20	0.0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.070	0.020	0.030	0.000	0.486	0.000	0.447	61.50	97.04
akiyo	20	0.0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.070	0.030	0.020	0.000	0.575	0.000	0.521	68.43	96.22
akiyo	20	0.0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.080	-0.030	-0.040	0.000	0.450	0.000	0.397	71.42	96.20
akiyo	20	0.0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.050	0.030	0.000	0.000	-0.102	0.000	-0.089	72.61	94.67
coastguard	20	0.0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.050	-0.010	-0.020	0.000	0.120	0.000	0.113	53.77	91.90
coastguard	20	0.0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.040	0.020	0.040	0.000	0.315	0.000	0.296	58.89	91.81
coastguard	20	0.0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.060	0.030	0.060	0.000	0.509	0.000	0.472	65.18	92.81
coastguard	20	0.0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.040	0.130	-0.090	0.000	2.845	0.000	2.501	70.02	91.75
hall_monitor	20	0.0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.040	0.000	0.000	0.000	0.128	0.000	0.121	60.54	94.78
hall_monitor	20	0.0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.080	-0.010	-0.020	0.000	-0.101	0.000	-0.093	65.76	95.40
hall_monitor	20	0.0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.060	-0.010	0.020	0.000	-0.176	0.000	-0.153	70.54	95.54
hall_monitor	20	0.0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.020	-0.040	0.020	0.000	-0.345	0.000	-0.280	72.10	94.64
husky	20	0.0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	0.010	0.010	0.040	0.000	0.823	0.000	0.777	48.36	84.92
husky	20	0.0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.060	0.050	0.070	0.000	1.093	0.000	1.026	51.98	87.24
husky	20	0.0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.110	0.050	0.040	0.000	1.252	0.000	1.159	56.80	86.79
husky	20	0.0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.080	0.060	0.060	0.000	1.372	0.000	1.228	61.66	87.05
mobile	20	0.0		8	8	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.020	0.010	0.020	0.000	0.573	0.000	0.540	52.85	92.28
mobile	20	0.0		18	18	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.090	0.010	0.010	0.000	0.432	0.000	0.404	57.65	92.85
mobile	20	0.0		28	28	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.100	0.000	0.010	0.000	-0.039	0.000	-0.035	61.80	92.63
mobile	20	0.0		38	38	352x288	10	0	HEX	ON		32	1	30	CAVLC	0	OFF	0	-0.070	-0.010	0.020	0.000	0.437	0.000	0.384	66.67	91.98
																		BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
																		Média	-0.072	0.008	0.012	0.000	0.429	0.000	0.453	65.686	93.928

Tabela 17.3- Resultado da comparação entre o método Proposto e Full Search para RDO=2 e IPPP

Anexos

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JM98																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr IPB	Total Time	Me Time
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	51.82	52.86	53.24	81168	1538592	160	1619920	124,402	15,555
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	45.82	47.11	47.84	39552	492568	160	532280	102,261	16,927
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	38.4	40.83	41.7	17728	118104	160	135992	88,267	17,66
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	31.81	35.8	37.76	7272	30912	160	38344	80,341	20,434
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	50.9	51.47	51.81	107360	6737912	160	6845432	171,221	34,526
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	43.39	45.18	46.4	53584	2465672	160	2519416	138,086	34,466
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	35.86	40.23	40.97	21960	704736	160	726856	110,49	32,647
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	29.22	37.06	37.19	8472	203408	160	212040	97,425	34,078
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.21	51.6	51.84	114904	3100104	160	3215168	64,997	11,843
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.36	44.7	44.98	59568	1192704	160	1252432	51,455	11,798
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36.04	37.56	38.01	26384	358600	160	385144	42,266	11,757
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	29.11	32.52	33.45	9984	117288	160	127432	36,704	11,235
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.23	50.79	50.95	116088	3170144	160	3286392	64,56	12,825
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.91	43.3	43.7	57480	1183704	160	1241344	51,079	12,515
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36.24	36.65	37.45	22632	378824	160	401616	42,36	13,258
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30.09	32.24	33.33	7288	112640	160	120088	38,423	14,386
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.53	51.32	51.53	90768	2649400	160	2740328	62,223	14,773
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44.56	44.52	45.29	43424	986040	160	1029624	49,687	12,843
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.24	37.9	39.46	16904	308456	160	325520	41,783	13,714
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30.87	33.17	35.15	6016	95760	160	101936	36,972	12,816
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.33	52	51.99	100280	2924200	160	3024640	65,529	16,571
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44.22	46.1	46.47	47696	1121592	160	1169448	52,186	16,424
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.26	40.22	40.99	18208	329752	160	348120	42,954	15,183
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31.21	36.61	36.71	6136	101704	160	108000	38,607	15,191
container	48	0.0		8	8	8 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	50.3	51.59	52.07	42648	977880	168	10205696	256,036	41,206
container	48	0.0		18	18	18 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	43.35	47.07	47.42	212648	2772968	168	2985784	197,625	34,557
container	48	0.0		28	28	28 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	35.96	41.7	41.57	86560	385912	168	472640	166,357	34,762
container	48	0.0		38	38	38 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	30.03	37.94	37.24	30048	54480	168	84696	143,805	31,569
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.86	50.82	51.27	299728	3346552	168	3646448	107,763	19,125
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	45.43	45.73	46.82	112864	1094000	168	1207032	88,703	23,56
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	39.76	40.1	41.28	46528	353024	168	399720	76,999	22,719
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	33.37	35.01	36.59	18920	133104	168	152192	71,66	22,498
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.23	51.76	52.15	504816	855680	168	9080664	164,518	39,142
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.72	46.62	47.81	275104	4221608	168	4486880	135,719	38,156
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34.42	42.3	43.98	113752	1468368	168	1582288	106,066	36,596
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	27.6	38.29	40.46	31944	238344	168	270456	83,628	31,403
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.5	51.31	51.48	403392	6682152	168	7085712	141,872	33,95
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.63	43.98	44.9	169168	2198968	168	2368304	106,125	30,061
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.72	38.36	40.25	58872	396472	168	455512	81,079	23,16
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31.63	33.86	37.24	24176	105024	168	129368	70,702	19,603
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.03	51.21	51.61	764192	12932368	168	13696728	174,766	36,394
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.06	43.82	45.89	490280	7596360	168	8086808	157,064	36,291
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	32.84	37.8	42.19	262896	3539272	168	3822336	130,153	34,174
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	24.24	33.81	39.84	118248	1026280	168	1144696	102,031	34,452
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.11	51.06	51.07	682824	11237392	168	11920384	157,547	30,079
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.69	42.78	42.68	419320	6024368	168	6443856	134,579	29,932
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34.21	35.22	34.9	218816	2271864	168	2490848	108,779	28,21
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	26.37	30.21	29.7	90200	651176	168	741544	88,502	27,371

Tabela 18.1- Resultado da simulação do método JM9.8 para RDO=2 e IPPP

Anexos

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PROPOSTO																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	period	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	52,56	52,98	53,32	83384	1779232	168	1862784	38,649	1,374
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	45,72	47,12	47,83	39660	492328	168	532056	31,401	1,562
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	38,38	40,71	41,71	17728	116984	168	134880	27,292	1,983
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	31,78	35,84	37,8	7280	31128	168	38576	25,547	3,065
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	51,32	51,65	51,99	110232	7123104	168	7233504	49,284	4,27
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	43,25	45,18	46,4	53584	2517008	168	2570760	39,359	4,276
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	35,76	40,16	40,93	21960	715816	168	737944	32,012	4,432
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2 OFF	0	0	29,15	37,07	37,03	8480	206792	168	215440	28,226	5,012
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,45	51,81	52,07	117960	3196528	168	3314656	19,079	1,282
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	43,28	44,71	44,98	59668	1201184	168	1260920	15,065	1,616
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	36	37,56	38,03	26384	358360	168	384912	12,39	1,635
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	29,1	32,54	33,43	9992	117160	168	127320	11,206	1,844
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,56	51,04	51,15	119280	3278384	168	3397832	18,67	1,411
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	43,86	43,3	43,71	57480	1187208	168	1244956	14,672	1,44
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	36,21	36,64	37,43	22632	378960	168	401760	12,138	1,479
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	30,06	32,26	33,42	7288	113320	168	120776	11,09	2,103
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,83	51,5	51,73	93328	2750984	168	2844480	18,122	1,593
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	44,44	44,53	45,27	43432	991320	168	1034920	14,391	1,575
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	37,15	37,94	39,46	16912	309816	168	326896	11,887	1,761
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	30,85	33,25	35,04	6016	96624	168	102808	10,968	1,757
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,89	52,3	52,32	103288	3108320	168	3212776	18,453	2,357
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	44,12	46,14	46,47	47704	1132248	168	1180120	14,328	1,846
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	37,21	40,22	41,03	18208	331048	168	349424	11,955	1,712
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	31,2	35,5	36,86	6136	102024	168	108328	10,974	2,178
container	48	0.0		8	8	8 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	51,34	51,86	52,29	439064	10857720	168	11289952	93,109	4,055
container	48	0.0		18	18	18 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	43,26	47,08	47,41	212656	2725296	168	2988120	71,786	4,353
container	48	0.0		28	28	28 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	35,94	41,68	41,6	86668	384912	168	471648	58,323	5,067
container	48	0.0		38	38	38 352x288	30	0	OFF	ON		32	1	15 CAVLC	0 OFF	0	0	30,01	37,92	37,25	30056	54032	168	84256	52,297	6,19
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	52,52	51,36	51,59	311752	3688440	168	3880360	33,515	1,624
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	45,37	45,74	46,83	112864	1102048	168	1215080	25,095	2,061
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	39,7	40,02	41,26	46528	353648	168	400344	21,981	2,152
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	33,36	35,06	36,6	18920	133824	168	152912	21,002	3,049
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,74	51,86	52,24	518032	8847976	168	9366176	45,062	4,552
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	42,67	46,62	47,82	275104	4227160	168	4502432	36,501	4,531
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	34,37	42,32	44,03	113752	1469256	168	1583176	28,782	4,108
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	27,57	38,39	40,4	31944	240328	168	272440	23,734	4,845
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	52,06	51,43	51,62	414352	6867528	168	7382048	38,798	2,996
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	43,58	43,96	44,88	169168	2200080	168	2369416	29,094	2,532
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	37,67	38,36	40,24	58872	395104	168	454144	23,28	2,512
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	31,58	33,81	37,22	24176	103912	168	128256	21,482	3,018
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,47	51,38	51,83	776080	13304536	168	14080784	52,955	8,251
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	41,98	43,86	45,94	490280	7688752	168	8159200	45,923	7,037
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	32,73	37,83	42,25	282904	3568464	168	3852536	38,471	7,254
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	24,17	33,8	39,95	118248	1023968	168	1148384	31,268	7,315
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	51,4	51,17	51,2	693056	11488660	168	12181784	46,455	4,246
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	42,59	42,8	42,7	419320	6060880	168	6480368	38,874	3,969
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	34,1	35,24	34,92	218816	2274696	168	2493680	32,329	4,053
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0 OFF	0	0	26,29	30,23	29,71	90200	654360	168	744728	26,517	4,48

Tabela 18.2- Resultado da simulação do método Proposto para RDO=2 e IPPP

Anexos

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DIFERENÇA																										
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.740	0.120	0.080	2.730	15.640	5,000	14.992	68.93	91.17
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.100	0.010	-0.010	0.020	-0.049	5,000	-0.042	69.29	90.83
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.020	-0.120	0.010	0.000	-0.948	5,000	-0.818	69.08	88.77
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.030	0.040	0.040	0.110	0.699	5,000	0.605	68.20	85.00
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0.420	0.180	0.180	2.675	5.717	5,000	5.669	71.22	87.63
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.140	0.000	0.000	0.000	2.082	5,000	2.038	71.50	87.59
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.100	-0.070	-0.040	0.000	1.572	5,000	1.525	71.03	86.42
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0.070	0.010	-0.160	0.084	1.664	5,000	1.603	71.03	85.29
container	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.240	0.210	0.230	2.660	3.110	5,000	3.094	70.65	89.18
container	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.010	0.000	0.000	0.711	5,000	0.678	70.72	86.30
container	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.040	0.000	0.020	0.000	-0.067	5,000	-0.060	70.69	86.09
container	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.020	-0.020	0.080	-0.109	5,000	-0.088	69.47	83.59
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.330	0.250	0.200	2.750	3.414	5,000	3.391	71.08	89.00
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.010	0.000	0.296	5,000	0.283	71.28	88.49
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	-0.010	-0.020	0.000	0.036	5,000	0.036	71.35	88.84
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.020	0.030	0.000	0.604	5,000	0.573	71.14	85.38
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.300	0.180	0.200	2.620	3.834	5,000	3.801	70.88	89.22
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.120	0.010	-0.020	0.018	0.535	5,000	0.514	71.04	87.74
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.040	0.000	0.047	0.441	5,000	0.423	71.55	87.16
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.020	0.080	-0.110	0.000	0.902	5,000	0.855	70.33	86.29
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.560	0.300	0.330	3.000	6.331	5,000	6.220	71.84	85.78
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.100	0.040	0.000	0.017	0.950	5,000	0.913	72.54	88.76
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.040	0.000	0.393	5,000	0.375	72.17	88.72
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	-0.110	0.150	0.000	0.315	5,000	0.304	71.58	85.66
container	48	0.0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	1.040	0.270	0.220	2.910	11.032	0,000	10.693	63.63	90.16
container	48	0.0		18	18	18 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.090	0.010	-0.010	0.004	-1.719	0,000	0.078	63.88	87.40
container	48	0.0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.020	-0.020	0.030	0.009	-0.259	0,000	-0.210	64.94	85.42
container	48	0.0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0.020	-0.020	0.010	0.027	-0.822	0,000	-0.520	63.63	80.39
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.660	0.540	0.320	4.012	6.630	0,000	6.415	68.90	91.51
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.060	0.010	0.010	0.000	0.736	0,000	0.667	71.71	91.25
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.060	-0.080	-0.020	0.000	0.177	0,000	0.156	71.45	90.53
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.010	0.050	0.010	0.000	0.541	0,000	0.473	70.69	86.45
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.510	0.100	0.090	2.618	3.414	0,000	3.370	72.61	88.37
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	0.010	0.000	0.132	0,000	0.123	73.11	88.13
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.020	0.050	0.000	0.060	0,000	0.056	72.86	88.77
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.030	0.100	-0.060	0.000	0.832	0,000	0.734	71.62	84.57
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.560	0.120	0.140	2.717	4.271	0,000	4.182	72.65	91.18
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.020	-0.020	0.000	0.051	0,000	0.047	72.59	91.58
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	0.000	-0.010	0.000	-0.345	0,000	-0.300	71.29	89.15
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.050	-0.050	-0.020	0.000	-1.059	0,000	-0.860	69.62	84.60
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.440	0.170	0.220	1.556	2.878	0,000	2.804	69.70	77.33
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.040	0.050	0.000	0.953	0,000	0.895	70.76	80.61
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.110	0.030	0.060	0.003	0.853	0,000	0.790	70.44	78.77
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.070	-0.010	0.110	0.000	0.359	0,000	0.322	69.35	78.77
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0.290	0.110	0.130	1.498	2.235	0,000	2.193	70.51	85.88
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.100	0.020	0.020	0.000	0.606	0,000	0.567	71.11	86.74
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.110	0.020	0.020	0.000	0.125	0,000	0.114	70.28	85.63
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0.080	0.020	0.010	0.000	0.489	0,000	0.429	70.04	83.63
																		BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction
Média																		0.081	0.055	0.054	0.674	1.672	2.500	1.669	70.328	86.786

Tabela 18.3- Resultado da comparação entre o método Proposto e JM9.8 para RDO=2 e IPPP

Anexos

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P021																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr B	#Btr IPB	Total Time	Me Time
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	52.57	52.97	53.35	83384	1775584	168	1869136	38.717	1.303
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	45.75	47.09	47.84	39560	495488	168	535216	31.479	1.671
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	38.45	40.73	41.71	17728	117976	168	135872	27.535	2.285
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	31.78	35.73	37.84	7280	31384	168	38832	25.69	3.303
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	51.41	51.63	51.96	110232	7024536	168	7134936	49.372	4.235
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	43.37	45.18	46.41	53584	2477864	168	2531616	39.53	4.611
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	35.84	40.25	41.01	21960	711896	168	734024	32.765	5.003
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	29.12	37.13	37.02	8480	206896	168	215544	28.72	5.863
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.52	51.78	52.05	117960	3182856	168	3300984	19.098	1.567
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.34	44.7	44.96	59568	1195320	168	1255056	15.062	1.5
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36.04	37.54	38.01	26384	359776	168	386328	12.518	1.739
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	29.11	32.52	33.38	9992	117104	168	127264	11.362	2.201
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.61	51.02	51.15	119280	3276784	168	3396232	18.64	1.645
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.9	43.31	43.73	57480	1187616	168	1245264	15.018	1.673
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36.22	36.62	37.41	22632	378808	168	401608	12.219	1.988
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30.06	32.26	33.4	7288	113088	168	120544	11.237	1.976
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.88	51.51	51.73	93328	2741008	168	2834504	18.074	1.704
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44.52	44.51	45.24	43432	986752	168	1030352	14.346	1.688
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.21	37.92	39.44	16912	310264	168	327344	12.128	2.082
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30.86	33.25	35.07	6016	96488	168	102672	11.328	2.119
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.92	52.27	52.29	103288	3082944	168	3186400	18.61	2.125
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44.19	46.12	46.48	47704	1126312	168	1174184	14.618	2.285
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.23	40.2	40.96	18208	329880	168	348256	12.325	1.91
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31.19	35.49	36.8	6136	101824	168	108128	11.113	2.371
container	48	0.0		8	8	8 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	51.41	51.84	52.28	439064	10828840	168	11268072	93.438	5.304
container	48	0.0		18	18	18 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	43.33	47.09	47.44	212656	2776864	168	2899688	73.244	5.303
container	48	0.0		28	28	28 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	35.96	41.69	41.57	86568	387032	168	473768	59.437	5.997
container	48	0.0		38	38	38 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	30	37.93	37.25	30056	54344	168	84568	53.563	6.879
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	52.55	51.35	51.58	311752	3662280	168	3874200	32.408	1.921
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	45.42	45.75	46.83	112864	1102304	168	1215336	25.781	2.958
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	39.7	40	41.22	46528	353136	168	399832	22.673	2.758
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	33.36	35.03	36.6	18920	133656	168	152744	21.549	3.322
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.79	51.88	52.25	518032	8839032	168	9367232	46.125	5.391
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.71	46.62	47.81	275104	4222216	168	4497488	37.686	5.535
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34.41	42.33	43.99	113752	1471912	168	1585832	29.546	5.517
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	27.57	38.19	40.44	31944	238480	168	270592	24.437	5.4
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	52.09	51.42	51.6	414352	6860880	168	7375400	39.676	3.837
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.63	43.96	44.9	189168	2203360	168	2372696	30.082	3.239
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.71	38.35	40.21	58872	395704	168	454744	24.018	3.014
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31.57	33.81	37.2	24176	104048	168	128392	22.095	3.749
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.48	51.36	51.79	776080	13209592	168	13985840	53.767	7.966
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.05	43.81	45.88	490280	7598128	168	8088576	46.816	7.265
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	32.83	37.82	42.24	282904	3544712	168	3827784	39.39	7.649
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	24.24	33.8	39.89	118248	1027224	168	1145640	32.046	8.385
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.43	51.17	51.18	893056	11420720	168	12113944	47.264	5.056
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.68	42.78	42.69	419320	6028192	168	6447680	39.8	4.669
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34.19	35.21	34.89	218816	2266616	168	2485600	32.826	4.627
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	26.35	30.21	29.69	90200	653280	168	743648	27.298	5.161

Tabela 19.1- Resultado da simulação do método P021 para RDO=2 e IPPP

Anexos

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PROPOSTO																										
Sequence	#mg	P/MbInt	QPI	QPP	QPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	SNRY N	SNRU N	SNRV N	#Btr I	#Btr P	#Btr NVB	#Btr IPB	Total Time	Me Time
akiyo	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	52.56	52.98	53.32	83384	1779232	168	1862784	38.649	1.374
akiyo	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	45.72	47.12	47.83	39560	492328	168	532056	31.401	1.552
akiyo	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	38.38	40.71	41.71	17728	116984	168	134880	27.292	1.983
akiyo	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	31.78	35.84	37.8	7280	31128	168	38576	25.547	3.065
foreman	100	0.0		8	8	8 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	51.32	51.65	51.99	110232	7123104	168	7233504	49.284	4.27
foreman	100	0.0		18	18	18 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	43.25	45.18	46.4	53584	2517008	168	2570760	39.369	4.276
foreman	100	0.0		28	28	28 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	35.76	40.16	40.93	21960	715816	168	737944	32.012	4.432
foreman	100	0.0		38	38	38 176x144	30	0	HEX	ON		32	1	10 CAVLC	2	OFF	0	29.15	37.07	37.03	8480	206792	168	215440	28.226	5.012
container	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.45	51.81	52.07	117960	3196528	168	3314656	19.079	1.282
container	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.28	44.71	44.98	59568	1201184	168	1260920	15.065	1.616
container	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36	37.56	38.03	26384	358360	168	384912	12.39	1.635
container	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	29.1	32.54	33.43	9992	117160	168	127320	11.206	1.844
grandma	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.56	51.04	51.15	119280	3278384	168	3397832	18.67	1.411
grandma	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.86	43.3	43.71	57480	1187208	168	1244856	14.672	1.44
grandma	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	36.21	36.64	37.43	22632	378960	168	401760	12.138	1.479
grandma	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30.06	32.26	33.42	7288	113320	168	120776	11.09	2.103
mother_daughter	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.83	51.5	51.73	93328	2750984	168	2844480	18.122	1.593
mother_daughter	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44.44	44.53	45.27	43432	991320	168	1034920	14.391	1.575
mother_daughter	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.15	37.94	39.46	16912	308816	168	326896	11.887	1.761
mother_daughter	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	30.85	33.25	35.04	6016	96624	168	102808	10.968	1.757
suzie	40	0.0		8	8	8 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.89	52.3	52.32	103288	3109320	168	3212776	18.453	2.357
suzie	40	0.0		18	18	18 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	44.12	46.14	46.47	47704	1132248	168	1180120	14.328	1.846
suzie	40	0.0		28	28	28 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.21	40.22	41.03	18208	331048	168	349424	11.955	1.712
suzie	40	0.0		38	38	38 176x144	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31.2	35.5	36.86	6136	102024	168	108328	10.974	2.178
container	48	0.0		8	8	8 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	51.34	51.86	52.29	439064	10857720	168	11296952	93.109	4.055
container	48	0.0		18	18	18 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	43.26	47.08	47.41	212656	2725296	168	2988120	71.786	4.353
container	48	0.0		28	28	28 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	35.94	41.68	41.6	86688	384912	168	471648	58.323	5.067
container	48	0.0		38	38	38 352x288	30	0	OFF	ON		32	1	15 CAVLC	0	OFF	0	30.01	37.92	37.25	30056	54032	168	84256	52.297	6.19
akiyo	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	52.52	51.36	51.59	311752	3568440	168	3880360	33.515	1.624
akiyo	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	45.37	45.74	46.83	112864	1102048	168	1215080	25.095	2.061
akiyo	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	39.7	40.02	41.26	46528	353648	168	400344	21.981	2.152
akiyo	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	33.36	35.06	36.6	18920	133824	168	152912	21.002	3.049
coastguard	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.74	51.86	52.24	518032	8847976	168	9366176	45.052	4.552
coastguard	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.67	46.62	47.82	275104	4227160	168	4502432	36.501	4.531
coastguard	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34.37	42.32	44.03	113752	1469256	168	1583176	28.782	4.108
coastguard	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	27.57	38.39	40.4	31944	240328	168	272440	23.734	4.845
hall_monitor	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	52.06	51.43	51.62	414352	6867528	168	7382048	38.798	2.996
hall_monitor	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	43.58	43.96	44.88	189168	2200080	168	2369416	29.094	2.532
hall_monitor	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	37.67	38.36	40.24	58872	395104	168	454144	23.28	2.512
hall_monitor	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	31.58	33.81	37.22	24176	103912	168	128256	21.482	3.018
husky	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.47	51.38	51.83	776080	13304536	168	14080784	52.955	8.251
husky	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	41.98	43.86	45.94	490280	7668752	168	8159200	45.923	7.037
husky	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	32.73	37.83	42.25	282904	3589464	168	3852536	38.471	7.254
husky	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	24.17	33.8	39.95	118248	1029968	168	1148384	31.268	7.315
mobile	20	0.0		8	8	8 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	51.4	51.17	51.2	693056	11488560	168	12181784	46.455	4.246
mobile	20	0.0		18	18	18 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	42.59	42.8	42.7	419320	6080880	168	6480368	38.874	3.969
mobile	20	0.0		28	28	28 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	34.1	35.24	34.92	218816	2274696	168	2493680	32.329	4.053
mobile	20	0.0		38	38	38 352x288	10	0	HEX	ON		32	1	30 CAVLC	0	OFF	0	26.29	30.23	29.71	90200	654360	168	744728	26.517	4.48

Tabela 19.2- Resultado da simulação do método Proposto para RDO=2 e IPPP

Anexos

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DIFERENÇA																											
Sequence	#Img	P/MbInt	OPI	OPP	OPB	Format	Iperiod	#B	FMES	Hdmd	S.R	#Ref	Freq	Coding	RD-opt	Intra upd	8x8Tr	BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
akiyo	100	0,0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0,010	0,010	-0,030	0,000	0,205	0,000	0,196	0,18	-5,45	
akiyo	100	0,0		18	18	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0,030	0,030	-0,010	0,000	-0,638	0,000	-0,590	0,25	-7,12	
akiyo	100	0,0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0,070	-0,020	0,000	0,000	-0,841	0,000	-0,730	0,88	13,22	
akiyo	100	0,0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0,000	0,110	-0,040	0,000	-0,816	0,000	-0,669	0,56	7,21	
foreman	100	0,0		8	8	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0,090	0,020	0,030	0,000	1,403	0,000	1,361	0,18	-0,83	
foreman	100	0,0		18	18	8 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0,120	0,000	-0,010	0,000	1,580	0,000	1,546	0,43	7,27	
foreman	100	0,0		28	28	28 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	-0,080	-0,090	-0,080	0,000	0,551	0,000	0,534	2,30	11,41	
foreman	100	0,0		38	38	38 176x144	30	0	HEX	ON	32	1	10	CAVLC	1	OFF	0	0,030	-0,060	0,010	0,000	-0,050	0,000	-0,048	1,72	14,51	
container	40	0,0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,070	0,030	0,020	0,000	0,430	0,000	0,414	0,10	18,19	
container	40	0,0		18	18	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,060	0,010	0,020	0,000	0,491	0,000	0,467	-0,02	-7,73	
container	40	0,0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,040	0,020	0,020	0,000	-0,384	0,000	-0,367	1,02	5,98	
container	40	0,0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,010	0,020	0,050	0,000	0,048	0,000	0,044	1,37	16,22	
grandma	40	0,0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,050	0,020	0,000	0,000	0,049	0,000	0,047	-0,16	14,22	
grandma	40	0,0		18	18	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,040	-0,010	-0,020	0,000	-0,034	0,000	-0,033	2,30	13,93	
grandma	40	0,0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,010	0,020	0,020	0,000	0,040	0,000	0,038	0,66	25,80	
grandma	40	0,0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0,000	0,000	0,020	0,000	0,205	0,000	0,192	1,31	-6,43	
mother_daughter	40	0,0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,050	-0,010	0,000	0,000	0,364	0,000	0,362	-0,27	6,51	
mother_daughter	40	0,0		18	18	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,080	0,020	0,030	0,000	0,463	0,000	0,443	-0,31	5,58	
mother_daughter	40	0,0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,060	0,020	0,020	0,000	-0,144	0,000	-0,137	1,99	15,42	
mother_daughter	40	0,0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,010	0,000	-0,030	0,000	0,141	0,000	0,132	3,18	17,08	
suzie	40	0,0		8	8	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,030	0,030	0,030	0,000	0,856	0,000	0,828	0,84	-10,92	
suzie	40	0,0		18	18	8 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,070	0,020	-0,010	0,000	0,527	0,000	0,506	1,98	19,21	
suzie	40	0,0		28	28	28 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,020	0,020	0,070	0,000	0,354	0,000	0,335	3,00	10,37	
suzie	40	0,0		38	38	38 176x144	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0,010	0,010	0,060	0,000	0,196	0,000	0,185	1,40	8,14	
container	48	0,0		8	8	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,070	0,020	0,010	0,000	0,267	0,000	0,256	0,35	23,55	
container	48	0,0		18	18	8 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,070	-0,010	-0,030	0,000	-1,857	0,000	-0,052	1,99	17,91	
container	48	0,0		28	28	28 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	-0,020	-0,010	0,030	0,000	-0,548	0,000	-0,447	1,87	15,51	
container	48	0,0		38	38	38 352x288	30	0	OFF	ON	32	1	15	CAVLC	0	OFF	0	0,010	-0,010	0,000	0,000	-0,574	0,000	-0,369	2,36	10,02	
akiyo	20	0,0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,030	0,010	0,010	0,000	0,173	0,000	0,159	-3,42	15,46	
akiyo	20	0,0		18	18	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,050	-0,010	0,000	0,000	-0,023	0,000	-0,021	2,66	30,32	
akiyo	20	0,0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0,000	0,020	0,040	0,000	0,145	0,000	0,128	3,05	21,97	
akiyo	20	0,0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0,000	0,030	0,000	0,000	0,126	0,000	0,110	2,54	8,22	
coastguard	20	0,0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,050	-0,020	-0,010	0,000	0,101	0,000	0,096	2,30	15,56	
coastguard	20	0,0		18	18	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,040	0,000	0,010	0,000	0,117	0,000	0,110	3,14	18,14	
coastguard	20	0,0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,040	-0,010	0,040	0,000	-0,180	0,000	-0,167	2,59	25,54	
coastguard	20	0,0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0,000	0,200	-0,040	0,000	0,775	0,000	0,683	2,88	10,28	
hall_monitor	20	0,0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,030	0,010	0,020	0,000	0,086	0,000	0,080	2,70	21,92	
hall_monitor	20	0,0		18	18	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,050	0,000	-0,020	0,000	-0,149	0,000	-0,138	3,28	21,83	
hall_monitor	20	0,0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,040	0,010	0,030	0,000	-0,152	0,000	-0,132	3,07	16,66	
hall_monitor	20	0,0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	0,010	0,000	0,020	0,000	-0,131	0,000	-0,106	2,77	19,50	
husky	20	0,0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,010	0,020	0,040	0,000	0,719	0,000	0,679	1,51	-3,58	
husky	20	0,0		18	18	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,070	0,050	0,060	0,000	0,929	0,000	0,873	1,91	3,14	
husky	20	0,0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,100	0,010	0,010	0,000	0,898	0,000	0,647	2,33	5,16	
husky	20	0,0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,070	0,000	0,060	0,000	0,267	0,000	0,240	2,43	12,76	
mobile	20	0,0		8	8	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,030	0,000	0,020	0,000	0,594	0,000	0,560	1,71	16,02	
mobile	20	0,0		18	18	8 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,090	0,020	0,010	0,000	0,542	0,000	0,507	2,33	14,99	
mobile	20	0,0		28	28	28 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,090	0,030	0,030	0,000	0,356	0,000	0,325	1,51	12,41	
mobile	20	0,0		38	38	38 352x288	10	0	HEX	ON	32	1	30	CAVLC	0	OFF	0	-0,060	0,020	0,020	0,000	0,165	0,000	0,145	2,86	13,20	
																		BD SNRY N	BD SNRU N	BD SNRV N	BD#Btr I	BD#Btr P	BD#Btr B	BD#Btr IPB	Total Time Reduction	Me Time Reduction	
																		Média	-0,041	0,012	0,011	0,000	0,155	0,000	0,193	1,576	11,923

Tabela 19.3- Resultado da comparação entre o método Proposto e P021 para RDO=2 e IPPP

Parâmetro	Descrição	Unidade/ Valor
RDO	Abreviatura para RDOptimization, que representa o modo otimizado de taxa-distorção. Quando habilitado, o codificador repetidamente codifica cada macrobloco de diferentes maneiras a fim de encontrar os melhores parâmetros de codificação.	0 (OFF: modo de baixa complexidade); 1 (ON: modo de alta complexidade); 2 (ON: modo rápido de alta complexidade).
GOP	Abreviatura para Group of Picture, que representa o tamanho do conjunto de imagens de vídeo codificadas. A estrutura do GOP usada foi para quadros IPPP (baseline profile) ou IBBP (main profile).	30 ou 10
SNRY N, SNRU N, SNRV N	Valores médios de SNR para as componentes Y, U e V de todos os quadros de cada sequência de vídeo.	dB
#Bitr I, #Bitr P, #Bitr B, #Bitr IPB	Taxa de bits de quadros I, P, B e total	Kbit/s
Total Time	Tempo total de codificação de toda a sequência de vídeo	segundos
ME Time	Tempo dispendido para a fase de estimação de movimento para toda a sequência de vídeo.	segundos
BDSNRY,BDSNRU, BDSNR V	Abreviatura para Bjontegaard Delta SNR (dado pela média das diferenças de SNR entre dois métodos).	dB
BDBR	Abreviatura para Bjontegaard Delta Bit Rate (dado pela média da diferença percentual entre dois métodos)	%
#Img	Número de quadros codificados de uma sequência.	-
QPI, QPB, QPB	Parâmetro de quantização de quadros do tipo I, P e B	-
Format	Tamanho em pixel dos quadros codificados	-

#Ref	Número de quadros usados como referência. Usa-se nestas simulações sempre um quadro como refência.	-
Freq	Frequência dos quadros da sequência	-
Coding	Tipo de Codificação entrópica usada. Pode ser CAVLC ou CABAC.	-

Tabela 20 - Parâmetros utilizados nas Tabelas 7 a 19 com sua descrição e unidade de medida.