	PBS			PBS-R			BBS			B&C										Err %		
Instance	obj	t	ttb	obj	t	ttb	obj	t	ttb	obj	trav	purch	gap%	#n	t	ttb	#SEC	B&Cn		HEUR1	HEUR2	HEUR3
25.20.50.50.1	37283.06	16	14	36658.92	20	14	36072.14	37	21	36072.14	12904.00	23168.14	0.00	20	2	1	33	0		3.36	1.63	0.00
25.20.50.50.2	34096.04	17	1	33870.46	22	4	33870.46	40	3	33870.46	18368.00	15502.46	0.00	23	6	1	52	7		0.67	0.00	0.00
25.20.50.50.3	36947.62	30	4	36947.62	34	15	36947.62	47	4	36947.62	17649.00	19298.62	0.00	23	7	1	85	0		0.00	0.00	0.00
25.20.50.70.1	27416.30	15	15	27036.16	18	17	25757.20	43	35	25625.90	10384.00	15241.90	0.00	17	2	1	35	0		6.99	5.50	0.51
25.20.50.70.2	26792.40	25	14	27121.04	24	11	26473.18	47	15	25831.66	13969.00	11862.66	0.00	17	7	4	63	0		3.72	4.99	2.48
25.20.50.70.3	27786.96	32	23	27786.96	34	24	27786.96	58	26	26894.12	12504.00	14390.12	0.00	17	11	11	111	9		3.32	3.32	3.32
25.20.50.90.1	20284.46	16	15	20194.96	16	16	17002.42	52	44	17002.42	8915.00	8087.42	0.00	14	5	1	61	0		19.30	18.78	0.00
25.20.50.90.2	21246.40	20	17	20680.24	25	24	19105.00	56	48	18608.52	12577.00	6031.52	0.00	14	5	5	80	0		14.18	11.13	2.67
25.20.50.90.3	21147.70	26	23	20462.50	33	28	20255.62	58	38	17583.66	9524.00	8059.66	0.00	13	11	7	104	0		20.27	16.37	15.20
25.20.100.50.1	39309.53	31	24	38627.77	38	33	39055.47	73	28	38241.88	18084.00	20157.88	0.00	20	10	3	61	0		2.79	1.01	2.13
25.20.100.50.2	36910.95	34	23	37110.91	38	36	36513.55	83	32	36513.55	17114.00	19399.55	0.00	21	28	4	109	0		1.09	1.64	0.00
25.20.100.50.3	36869.84	38	5	36867.53	44	29	36867.53	63	16	36806.63	16381.00	20425.63	0.00	21	21	21	66	20		0.17	0.17	0.17
25.20.100.70.1	30072.39	39	33	30933.73	30	21	29853.93	87	50	28698.19	16280.00	12418.19	0.00	17	14	11	66	0		4.79	7.79	4.03
25.20.100.70.2	27853.90	34	30	27668.71	44	41	26840.14	107	54	26181.81	14146.00	12035.81	0.00	17	49	46	178	5		6.39	5.68	2.51
25.20.100.70.3	27572.78	37	29	27548.52	44	37	27580.10	76	58	27202.38	14701.00	12501.38	0.00	18	29	26	83	6		1.36	1.27	1.39
25.20.100.90.1	24170.86	30	29	23978.78	26	25	22649.05	86	71	21488.12	15063.00	6425.12	0.00	14	42	25	153	5		12.48	11.59	5.40
25.20.100.90.2	21576.16	22	20	20993.32	27	24	17929.03	99	88	17468.95	10481.00	6987.95	0.00	13	48	47	204	3		23.51	20.18	2.63
25.20.100.90.3	20521.06	36	31	21199.91	47	46	20136.83	87	62	18054.58	10387.00	7667.58	0.00	13	14	12	59	0		13.66	17.42	11.53
25.20.200.50.1	36243.15	44	12	36215.71	46	40	35438.82	102	44	35438.82	17922.00	17516.83	0.00	21	55	7	120	9		2.27	2.19	0.00
25.20.200.50.2	36973.94	31	28	36924.36	31	23	36918.71	99	53	36918.71	17363.00	19555.71	0.00	20	22	5	30	5		0.15	0.02	0.00
25.20.200.50.3	34218.53	34	29	33943.53	34	22	33860.14	71	32	33860.15	14433.00	19427.15	0.00	21	12	3	81	0		1.06	0.25	0.00
25.20.200.70.1	28486.02	42	37	28957.29	36	27	27564.74	121	77	27564.74	16643.00	10921.74	0.00	19	83	6	114	12		3.34	5.05	0.00
25.20.200.70.2	28936.72	34	33	28936.72	35	34	28344.08	107	87	28344.08	14674.00	13670.08	0.00	16	25	6	33	3		2.09	2.09	0.00
25.20.200.70.3	26652.19	47	40	26585.91	41	27	26109.82	106	55	26109.82	13266.00	12843.82	0.00	20	16	4	92	0		2.08	1.82	0.00
25.20.200.90.1	22840.80	34	34	23024.30	34	33	20255.61	142	126	20050.24	13609.00	6441.24	0.00	15	152	145	143	32		13.92	14.83	1.02
25.20.200.90.2	23591.05	38	37	23591.05	44	43	21820.21	118	100	21186.32	13546.00	7640.32	0.00	13	31	31	79	0		11.35	11.35	2.99
25.20.200.90.3	20879.06	40	40	21082.82	45	33	18601.82	121	83	18601.82	10727.00	7874.82	0.00	17	26	7	87	0		12.24	13.34	0.00
25.35.50.50.1	48669.46	32	1	48669.46	30	1	48669.46	47	1	48669.46	20589.00	28080.46	0.00	24	7	1	121	0		0.00	0.00	0.00
25.35.50.50.2	44682.20	17	4	44682.20	25	19	44682.20	23	4	44682.20	15940.00	28742.20	0.00	23	6	1	55	1		0.00	0.00	0.00
25.35.50.50.3	51722.22	20	0	51722.22	14	0	51722.22	30	0	51722.22	23525.00	28197.22	0.00	25	7	1	54	29		0.00	0.00	0.00
25.35.50.70.1	35027.08	43	24	35027.08	58	41	35027.08	65	22	34923.02	17440.00	17483.02	0.00	20	16	12	115	0		0.30	0.30	0.30
25.35.50.70.2	32721.62	16	14	32126.80	20	19	32126.80	36	22	32126.80	13517.00	18609.80	0.00	20	7	1	55	0		1.85	0.00	0.00
25.35.50.70.3	37883.44	25	13	37883.44	31	14	37883.44	46	13	37883.44	20796.00	17087.44	0.00	22	9	2	74	1		0.00	0.00	0.00
25.35.50.90.1	25510.48	40	32	25338.76	53	39	24635.92	63	39	24635.92	16025.00	8610.92	0.00	18	21	1	105	9		3.55	2.85	0.00
25.35.50.90.2	22773.02	21	19	22773.02	20	19	22469.56	41	26	22469.56	12813.00	9656.56	0.00	19	5	1	71	0		1.35	1.35	0.00
25.35.50.90.3	27890.28	27	25	27869.84	35	29	27869.84	52	32	27869.84	18918.00	8951.84	0.00	19	16	1	94	5		0.07	0.00	0.00
25.35.100.50.1	47926.91	34	0	47926.91	18	0	47926.91	57	0	47926.91	21878.00	26048.91	0.00	25	8	3	44	0		0.00	0.00	0.00
25.35.100.50.2	54279.35	34	0	54279.35	25	0	54279.35	71	0	54279.35	21799.00	32480.35	0.00	25	9	3	45	0		0.00	0.00	0.00
25.35.100.50.3	46446.54	41	4	46446.54	51	4	46446.54	74	4	46446.54	17767.00	28679.54	0.00	24	7	3	66	0		0.00	0.00	0.00
25.35.100.70.1	36859.10	36	22	36859.10	53	21	36859.10	84	19	36859.10	20180.00	16679.10	0.00	22	22	4	70	8		0.00	0.00	0.00
25.35.100.70.2	40089.32	40	5	40089.32	41	5	40089.32	103	5	40022.88	19007.00	21015.88	0.00	22	26	25	80	3		0.17	0.17	0.17
25.35.100.70.3	34415.89	47	27	34337.96	51	23	34337.96	97	23	34337.96	16804.00	17533.96	0.00	22	25	5	105	13		0.23	0.00	0.00
25.35.100.90.1	28065.83	42	40	27751.48	40	39	27572.10	85	63	25579.12	15323.00	10256.12	0.00	16	14	3	95	0		9.72	8.49	7.79
25.35.100.90.2	28280.96	50	40	28280.96	51	37	27877.70	112	77	27222.62	14792.00	12430.62	0.00	17	37	26	84	3		3.89	3.89	2.41
25.35.100.90.3	25387.11	40	27	24720.55	32	26	24421.50	98	45	24361.16	14853.00	9508.16	0.00	19	34	34	110	15		4.21	1.48	0.25
25.35.200.50.1	49457.78	71	2	49457.78	71	2	49457.78	92	2	49457.77	21362.00	28095.77	0.00	24	16	6	45	0		0.00	0.00	0.00
25.35.200.50.2	50937.23	39	7	50937.23	53	8	50937.23	99	7	50937.23	18845.00	32092.23	0.00	24	20	9	25	0		0.00	0.00	0.00
25.35.200.50.3	46773.35	85	18	46773.35	117	19	46773.35	122	20	46773.34	19120.00	27653.35	0.00	23	62	9	69	0		0.00	0.00	0.00
25.35.200.70.1	37814.82	80	10	37814.82	80	10	37814.82	128	11	37814.82	20885.00	16929.82	0.00	23	49	12	62	3		0.00	0.00	0.00
25.35.200.70.2	36537.92	57	49	36321.20	66	42	35985.84	131	40	35705.75	15852.00	19853.74	0.00	21	63	44	52	3		2.33	1.72	0.78
25.35.200.70.3	33844.03	86	52	33598.08	137	99	33598.08	177	100	33598.08	17113.00	16485.08	0.00	20	163	12	108	8		0.73	0.00	0.00
25.35.200.90.1	27804.92	89	50	28614.73	130	109	27418.02	137	90	27418.01	16939.00	10479.02	0.00	19	37	8	59	0		1.41	4.36	0.00
25.35.200.90.2	25412.15	46	37	25348.97	45	42	24646.25	153	102	24196.62	13765.00	10431.62	0.00	18	52	35	53	0		5.02	4.76	1.86
25.35.200.90.3	23122.05	82	79	23186.94	85	71	22331.21	195	131	22331.21	14136.00	8195.21	0.00	18	213	11	122	11		3.54	3.83	0.00
25.50.50.50.1	60453.72	14	1	60453.72	15	1	60453.72	23	1	60453.72	19791.00	40662.72	0.00	24	3	1	57	0		0.00	0.00	0.00
25.50.50.50.2	64927.80	15	3	64927.80	17	3	64824.12	21	4	64824.12	17031.00	47793.12	0.00	23	11	1	77	3		0.16	0.16	0.00
25.50.50.50.3	72447.20	17	2	72447.20	22	2	72447.20	37	2	72447.20	20888.00	51559.20	0.00	24	6	2	96	0		0.00	0.00	0.00
25.50.50.70.1	43144.34	14	9	43057.18	15	10	43057.18	27	13	43057.18	17709.00	25348.18	0.00	22	6	1	43	0		0.20	0.00	0.00
25.50.50.70.2	47813.18	23	5	47813.18	20	6	46567.56	40	4	46567.56	17031.00	29536.56	0.00	23	5	1	46	0		2.67	2.67	0.00
25.50.50.70.3	50120.86	33	19	49870.88	25	6	49870.88	25	6	49870.88	19764.00	30106.88	0.00	23	12	3	62	1		0.50	0.00	0.00
25.50.50.90.1	30102.50	14	13	29907.48	13	10	29907.48	41	22	29907.48	17224.00	12683.48	0.00	20	8	1	94	0		0.65	0.00	0.00
25.50.50.90.2	32516.06	12	10	31667.22	17	17	31626.24	43	29	31626.24	13638.00	17988.24	0.00	19	5	1	47	0		2.81	0.13	0.00
25.50.50.90.3	32453.60	27	24	32453.60	25	19	32183.92	72	32	32183.92	16765.00	15418.92	0.00	20	22	3	82	3		0.84	0.84	0.00
25.50.100.50.1	61340.21	34	4	61340.21	50	4	61340.21	54	4	61340.21	19876.00	41464.21	0.00	24	8	3	14	0		0.00	0.00	0.00
25.50.100.50.2	68200.76	18	2	68200.76	31	2	68200.76	27	2	68200.76	22778.00	45422.76	0.00	24	11	3	89	0		0.00	0.00	0.00
25.50.100.50.3	69905.80	57	0	69905.80	58	0	69905.80	81	0	69905.80	21460.00	48445.80	0.00	25	19	4	65	0		0.00	0.00	0.00
25.50.100.70.1	43228.81	43	24	43228.81	50	27	43228.81	96	31	43228.81	18511.00	24717.81	0.00	22	31	7	34	53		0.00	0.00	0.00
25.50.100.70.2	49179.78	35	8	49179.78	54	6	49179.78	55	7	49179.78	20818.00	28361.78	0.00	23	16	5	71	0		0.00	0.00	0.00
25.50.100.70.3	48660.22	82	14	48660.22	105	19	48568.61	121	19	48568.61	18412.00	30156.61	0.00	23	37	7	58	14		0.19	0.19	0.00
25.50.100.90.1	29647.37	46	41	29647.37	42	40	29647.37	114	57	29647.37	16559.00	13088.37	0.00	20	51	4	55	33		0.00	0.00	0.00

25.50.100.90.2	34223.54	36	29	33999.86	48	41	33999.86	69	43	33999.86	19249.00	14750.86	0.00	20	29	4	111	0		0.66	0.00	0.00
25.50.100.90.3	33191.81	59	29	32449.79	108	77	30687.35	138	108	30500.18	13963.00	16537.18	0.00	18	29	25	46	0		8.82	6.39	0.61
25.50.200.50.1	59304.40	104	1	59304.40	113	1	59304.40	144	1	59304.39	19691.00	39613.39	0.00	25	19	9	57	0		0.00	0.00	0.00
25.50.200.50.2	64775.17	93	1	64775.17	74	1	64775.17	152	1	64775.16	21331.00	43444.16	0.00	25	51	12	50	1		0.00	0.00	0.00
25.50.200.50.3	65413.33	85	1	65413.33	65	1	65413.33	147	1	65413.32	20186.00	45227.33	0.00	25	26	9	37	0		0.00	0.00	0.00
25.50.200.70.1	41693.86	131	1	41693.86	90	1	41693.86	237	1	41693.86	19691.00	22002.86	0.00	25	73	11	74	3		0.00	0.00	0.00
25.50.200.70.2	45163.15	73	15	45163.15	120	15	45163.15	196	24	45163.15	19842.00	25321.15	0.00	23	59	15	63	0		0.00	0.00	0.00
25.50.200.70.3	45952.91	77	23	45952.91	96	24	45952.91	169	23	45952.90	17600.00	28352.91	0.00	23	50	12	50	0		0.00	0.00	0.00
25.50.200.90.1	28832.23	115	64	28617.54	164	96	28539.39	301	129	28539.39	15971.00	12568.39	0.00	20	358	17	113	28		1.03	0.27	0.00
25.50.200.90.2	31108.62	64	46	31068.89	87	46	30931.25	213	79	30931.25	18739.00	12192.25	0.00	21	60	8	39	1		0.57	0.44	0.00
25.50.200.90.3	31119.87	89	79	31119.87	83	65	31119.87	210	85	31119.87	16673.00	14446.88	0.00	21	84	10	77	0	45.00	0.00	0.00	0.00
													0.00							3.01	2.76	0.89

	PBS			PBS-R			BBS			B&C										Err %		
Instance	obj	t	ttb	obj	t	ttb	obj	t	ttb	obj	trav	purch	gap%	#n	t	ttb	#SEC	B&Cn		HEUR1	HEUR2	HEUR3
50.20.50.50.1	57082.42	121	106	57082.42	149	126	57045.88	484	168	56924.00	22547.00	34377.00	0.00	41	56	54	292	7		0.28	0.28	0.21
50.20.50.50.2	49881.30	180	152	49339.76	224	195	48975.00	435	184	48975.00	21266.00	27709.00	0.00	41	57	3	301	7		1.85	0.74	0.00
50.20.50.50.3	60692.08	268	237	60692.08	321	287	60920.64	560	192	60631.36	22388.00	38243.36	0.00	40	94	94	297	92		0.10	0.10	0.48
50.20.50.70.1	40967.32	104	99	40967.32	103	96	38266.70	527	309	37642.40	17780.00	19862.40	0.00	31	73	64	451	0		8.83	8.83	1.66
50.20.50.70.2	35201.64	268	236	35317.50	238	217	32608.42	489	407	32189.16	15343.00	16846.16	0.00	31	75	69	323	22		9.36	9.72	1.30
50.20.50.70.3	41729.22	254	251	41668.18	296	290	41207.86	586	396	38821.82	16766.00	22055.82	0.00	33	87	70	329	14		7.49	7.33	6.15
50.20.50.90.1	30083.40	98	97	30083.40	105	104	23564.82	531	458	23327.14	15276.00	8051.14	0.00	22	152	151	632	38		28.96	28.96	1.02
50.20.50.90.2	25435.02	238	235	25435.02	253	252	19032.06	512	455	18794.46	12115.00	6679.46	0.00	22	124	124	523	57		35.33	35.33	1.26
50.20.50.90.3	30692.04	219	209	30800.96	211	210	23589.44	611	546	20382.76	8568.00	11814.76	0.00	18	185	182	371	171		50.58	51.11	15.73
50.20.100.50.1	57359.49	556	229	57359.49	859	432	57346.06	959	542	56567.36	20459.00	36108.36	0.00	41	121	101	291	3		1.40	1.40	1.38
50.20.100.50.2	56586.67	308	257	56586.67	354	296	55013.55	839	458	54845.44	20084.00	34761.44	0.00	40	39	39	160	0		3.17	3.17	0.31
50.20.100.50.3	60801.07	284	198	60750.96	317	201	60750.96	992	135	60750.96	23841.00	36909.96	0.00	46	135	9	276	3		0.08	0.00	0.00
50.20.100.70.1	40354.49	489	410	39782.47	611	567	37386.29	981	669	36548.59	15800.00	20748.59	0.00	31	197	125	360	16		10.41	8.85	2.29
50.20.100.70.2	39899.02	318	280	40372.62	350	325	35982.01	981	530	35601.56	11554.00	24047.56	0.00	27	144	144	202	22		12.07	13.40	1.07
50.20.100.70.3	40502.27	269	252	40280.59	296	220	39144.26	1086	842	38184.49	17272.00	20912.49	0.00	34	196	169	413	25		6.07	5.49	2.51
50.20.100.90.1	28394.13	369	364	28374.21	350	345	20150.94	1086	993	18963.16	10211.00	8752.16	0.00	19	265	235	504	15		49.73	49.63	6.26
50.20.100.90.2	29135.47	294	293	28032.75	320	312	22312.59	997	779	18349.57	9971.00	8378.57	0.00	23	183	178	400	17		58.78	52.77	21.60
50.20.100.90.3	27160.91	200	184	27560.84	177	165	21391.62	1085	901	20001.62	12498.00	7503.62	0.00	22	307	307	530	26		35.79	37.79	6.95
50.20.200.50.1	52008.89	472	393	52008.89	488	427	51854.35	1200	493	50918.32	22053.00	28865.32	0.00	39	252	192	229	3		2.14	2.14	1.84
50.20.200.50.2	57395.60	636	475	57395.60	669	509	56993.84	1200	648	56884.36	23431.00	33453.36	0.00	41	518	517	265	34		0.90	0.90	0.19
50.20.200.50.3	59851.74	605	490	59851.74	793	663	59851.74	1200	416	59851.74	25777.00	34074.74	0.00	45	1489	20	220	1721		0.00	0.00	0.00
50.20.200.70.1	38634.97	473	428	38521.31	480	474	36672.71	1200	1192	35648.37	20023.00	15625.38	0.00	35	616	616	328	71		8.38	8.06	2.87
50.20.200.70.2	40939.78	603	527	40601.56	530	521	39101.86	1200	1179	36580.32	16003.00	20577.32	0.00	29	539	538	328	29		11.92	10.99	6.89
50.20.200.70.3	41281.72	781	674	41662.82	808	668	40857.10	1200	1169	39249.60	18460.00	20789.59	0.00	33	1006	996	272	81		5.18	6.15	4.10
50.20.200.90.1	29070.42	434	426	28652.76	486	484	24176.90	1200	1180	21891.09	13139.00	8752.10	0.00	20	466	438	426	7		32.80	30.89	10.44
50.20.200.90.2	30384.55	496	492	29671.42	521	487	26444.44	1200	1153	19055.99	9664.00	9392.00	0.00	16	528	522	391	7		59.45	55.71	38.77
50.20.200.90.3	29425.48	586	573	28385.69	680	629	25541.61	1200	1186	21525.67	13620.00	7905.67	0.00	23	1888	1809	319	279		36.70	31.87	18.66
50.35.50.50.1	80452.26	230	183	80385.28	484	280	80385.28	709	215	80385.28	21260.00	59125.28	0.00	44	59	7	140	7		0.08	0.00	0.00
50.35.50.50.2	69580.24	379	47	69491.22	465	194	69028.62	781	299	69028.62	24731.00	44297.62	0.00	44	62	6	183	58		0.80	0.67	0.00
50.35.50.50.3	73020.52	478	273	72906.04	653	455	72906.04	829	226	72329.42	22681.00	49648.42	0.00	42	90	88	282	12		0.96	0.80	0.80
50.35.50.70.1	49762.96	282	228	48914.44	419	314	48795.80	808	300	48544.34	18340.00	30204.34	0.00	39	64	37	160	3		2.51	0.76	0.52
50.35.50.70.2	45391.80	544	495	45804.46	424	375	44568.18	818	479	44004.02	19636.00	24368.02	0.00	36	145	145	198	207		3.15	4.09	1.28
50.35.50.70.3	49442.36	423	376	49335.22	469	442	47458.70	874	576	45918.84	21241.00	24677.84	0.00	38	85	81	228	7		7.67	7.44	3.35
50.35.50.90.1	28746.54	324	324	28149.30	344	344	25092.34	871	723	24656.84	14085.00	10571.84	0.00	29	209	206	379	66		16.59	14.16	1.77
50.35.50.90.2	31215.70	408	397	30945.10	415	394	25186.82	876	777	23681.74	12855.00	10826.74	0.00	26	184	168	262	67		31.81	30.67	6.36
50.35.50.90.3	33669.06	386	379	33805.76	394	382	27227.84	856	611	26573.20	14307.00	12266.20	0.00	25	260	237	449	138		26.70	27.22	2.46
50.35.100.50.1	75250.14	452	239	75250.14	538	252	75250.14	1087	152	75250.14	23988.00	51262.14	0.00	47	104	13	270	0		0.00	0.00	0.00
50.35.100.50.2	80197.33	662	265	80197.33	813	481	80171.35	1200	337	80169.08	24661.00	55508.08	0.00	46	227	213	247	9		0.04	0.04	0.00
50.35.100.50.3	82450.20	365	273	82005.41	554	450	82085.23	1200	611	81410.71	23047.00	58363.71	0.00	43	159	127	233	3		1.28	0.73	0.83
50.35.100.70.1	48173.09	474	456	48156.56	443	390	48156.56	1200	403	47315.10	20143.00	27172.10	0.00	41	234	175	356	0		1.81	1.78	1.78
50.35.100.70.2	50810.65	664	593	50810.65	753	629	49520.65	1200	795	49358.65	20461.00	28897.65	0.00	38	380	380	323	20		2.94	2.94	0.33
50.35.100.70.3	52671.73	396	357	51626.82	473	431	50767.21	1200	955	49313.61	19726.00	29587.61	0.00	38	295	273	280	10		6.81	4.69	2.95
50.35.100.90.1	30043.65	499	485	29757.10	490	475	26863.05	1200	1169	26759.79	15535.00	11224.79	0.00	29	694	684	539	156		12.27	11.20	0.39
50.35.100.90.2	31336.28	619	613	31916.66	554	501	26912.06	1200	1164	26516.29	15643.00	10873.29	0.00	25	832	820	601	129		18.18	20.37	1.49
50.35.100.90.3	33412.53	467	461	33628.30	331	323	28698.77	1200	1192	24609.57	10855.00	13754.57	0.00	24	347	347	369	0		35.77	36.65	16.62
50.35.200.50.1	72439.23	762	663	72439.23	934	653	72439.23	1200	474	72335.17	26412.00	45923.16	0.00	45	608	605	239	79		0.14	0.14	0.14
50.35.200.50.2	87288.75	1020	558	87121.32	1201	964	86912.02	1200	701	86912.01	25771.00	61141.01	0.00	45	537	130	176	0		0.43	0.24	0.00
50.35.200.50.3	85719.32	906	105	85707.08	901	458	85707.08	1200	287	85707.08	27978.00	57729.08	0.00	47	470	130	145	3		0.01	0.00	0.00
50.35.200.70.1	49090.42	673	599	48765.99	852	819	48023.72	1200	1162	47829.04	22556.00	25273.03	0.00	39	1219	1219	289	48		2.64	1.96	0.41
50.35.200.70.2	55017.52	858	746	54497.83	1084	877	53608.70	1200	1103	53086.42	21903.00	31183.42	0.00	40	1392	1210	249	14		3.64	2.66	0.98
50.35.200.70.3	55400.61	848	728	55400.61	810	685	54334.00	1200	1089	54186.22	23472.00	30714.23	0.00	39	1624	1308	251	74		2.24	2.24	0.27
50.35.200.90.1	33758.99	656	654	33758.99	629	624	31707.31	1200	1193	27091.21	14017.00	13074.21	0.00	23	1275	1171	351	16		24.61	24.61	17.04
50.35.200.90.2	32806.16	974	964	33893.52	857	844	32128.56	1200	1162	26666.52	15539.00	11127.53	3.32	25	-	7200	317	268		23.02	27.10	20.48
50.35.200.90.3	35694.53	748	730	35430.50	660	654	33734.72	1200	1154	27810.89	11585.00	16225.89	0.00	19	1892	1510	378	26		28.35	27.40	21.30
50.50.50.50.1	93390.00	574	26	93390.00	740	26	93390.00	764	32	93390.00	29475.00	63915.00	0.00	48	98	6	230	296		0.00	0.00	0.00
50.50.50.50.2	111840.58	683	1	111840.58	530	1	111840.58	873	1	111840.58	29872.00	81968.58	0.00	50	65	7	170	3		0.00	0.00	0.00
50.50.50.50.3	104939.86	417	12	104939.86	585	13	104939.86	1040	12	104939.86	28993.00	75946.86	0.00	49	87	6	212	77		0.00	0.00	0.00

50.50.50.70.1	60092.42	376	305	59997.02	393	362	59623.68	981	386	59604.44	24607.00	34997.44	0.00	41	154	154	251	152			0.82	0.66	0.03
50.50.50.70.2	66638.04	582	292	66638.04	737	283	66400.34	921	443	66156.42	23613.00	42543.42	0.00	43	129	129	261	20			0.73	0.73	0.37
50.50.50.70.3	64441.04	547	493	64480.84	625	564	63908.70	1195	615	63896.46	24036.00	39860.46	0.00	40	194	172	296	98			0.85	0.91	0.02
50.50.50.90.1	36857.00	285	279	37765.30	239	224	34809.58	986	692	33460.98	18442.00	15018.98	0.00	33	264	263	341	90			10.15	12.86	4.03
50.50.50.90.2	37926.28	343	296	37106.50	480	407	32879.56	1083	707	30596.36	14780.00	15816.36	0.00	30	202	202	264	37			23.96	21.28	7.46
50.50.50.90.3	36030.80	694	681	36913.28	640	629	33579.12	1200	1148	32874.68	17276.00	15598.68	0.00	27	597	597	379	287			9.60	12.28	2.14
50.50.100.50.1	116509.88	961	98	116509.88	1095	100	116509.88	1200	102	116509.88	25134.00	91375.88	0.00	48	365	62	122	286			0.00	0.00	0.00
50.50.100.50.2	100357.71	1051	107	100357.71	1200	123	100357.71	1200	71	100357.71	26995.00	73362.71	0.00	48	315	78	198	104			0.00	0.00	0.00
50.50.100.50.3	101255.49	1016	28	101255.49	1195	29	101255.49	1200	29	101255.49	27613.00	73642.49	0.00	49	347	55	268	1559			0.00	0.00	0.00
50.50.100.70.1	68869.19	889	851	68869.19	741	680	68377.02	1200	532	68377.02	22997.00	45380.02	0.00	45	365	109	142	9			0.72	0.72	0.00
50.50.100.70.2	62186.31	792	573	62232.94	1025	745	61925.38	1200	455	61917.73	23721.00	38196.73	0.00	43	548	518	212	53			0.43	0.51	0.01
50.50.100.70.3	62880.46	886	390	62625.67	1121	821	61811.08	1200	805	61811.08	22834.00	38977.08	0.00	42	413	70	277	3			1.73	1.32	0.00
50.50.100.90.1	37246.26	728	720	37640.46	660	636	35444.57	1200	1160	33099.28	15186.00	17913.28	0.00	30	743	742	372	3			12.53	13.72	7.09
50.50.100.90.2	37755.56	742	669	38031.62	617	594	34552.95	1200	1130	32627.38	13791.00	18836.38	0.00	26	1590	1590	260	164			15.72	16.56	5.90
50.50.100.90.3	36641.30	909	820	35463.32	834	812	33727.10	1200	1162	32240.79	16619.00	15621.79	0.00	30	939	938	303	137			13.65	10.00	4.61
50.50.200.50.1	105725.11	1200	680	105599.32	1200	898	105495.31	1200	595	105495.30	24926.00	80569.30	0.00	46	604	141	281	0			0.22	0.10	0.00
50.50.200.50.2	95629.33	1200	2	95629.33	1200	3	95629.33	1200	2	95629.33	28391.00	67238.33	0.00	50	529	136	176	0			0.00	0.00	0.00
50.50.200.50.3	89931.85	1176	93	89931.85	1200	111	89931.85	1200	91	89931.85	26301.00	63630.85	0.00	48	346	99	114	3			0.00	0.00	0.00
50.50.200.70.1	65026.97	1200	939	64943.92	1200	1121	64022.60	1200	1054	63758.88	21138.00	42620.87	0.00	40	1009	815	271	5			1.99	1.86	0.41
50.50.200.70.2	59840.42	1101	649	59810.46	1200	1018	59751.62	1200	806	59577.97	23757.00	35820.97	0.00	42	1971	1848	241	66			0.44	0.39	0.29
50.50.200.70.3	59736.86	758	657	58698.43	1200	1128	58194.99	1200	1114	58126.98	22587.00	35539.98	0.00	42	929	813	202	26			2.77	0.98	0.12
50.50.200.90.1	37743.83	1200	1148	38415.81	1200	1080	36258.12	1202	1182	32287.72	16033.00	16254.73	0.00	31	1310	1094	243	5			16.90	18.98	12.30
50.50.200.90.2	35335.90	1200	1170	35839.07	1200	1144	34979.40	1200	1200	31753.34	17841.00	13912.34	0.00	29	3379	2697	344	35			11.28	12.87	10.16
50.50.200.90.3	37399.71	1007	1001	37497.11	1139	1131	36740.00	1200	1178	34052.40	17666.00	16386.40	0.00	32	1361	1352	302	23	8.00		9.83	10.12	7.89
													0.04								10.70	10.48	3.93

	PBS			PBS-R			BBS			B&C										Err %		
Instance	obj	t	ttb	obj	t	ttb	obj	t	ttb	obj	trav	purch	gap%	#n	t	ttb	#SEC	B&Cn		HEUR1	HEUR2	HEUR3
75.20.50.50.1	63302.28	637	605	63150.04	651	576	61103.02	1200	1083	60843.50	23924.00	36919.50	0.00	58	256	256	789	228		4.04	3.79	0.43
75.20.50.50.2	68876.10	769	713	68441.02	897	812	67455.36	1200	657	67455.36	26753.00	40702.36	0.00	62	170	5	333	65		2.11	1.46	0.00
75.20.50.50.3	74482.74	407	376	74824.78	371	310	73474.30	1200	504	73474.30	26767.00	46707.30	0.00	65	199	6	477	3		1.37	1.84	0.00
75.20.50.70.1	44600.90	562	541	44634.34	609	558	39734.26	1200	1187	38778.88	19980.00	18798.88	0.00	47	349	345	861	322		15.01	15.10	2.46
75.20.50.70.2	47647.22	868	836	47695.74	797	775	44847.82	1200	1158	43210.10	20059.00	23151.10	0.00	47	219	218	541	17		10.27	10.38	3.79
75.20.50.70.3	48525.64	368	365	48791.34	320	319	44988.02	1200	1188	44376.60	21881.00	22495.60	0.00	50	389	378	806	41		9.35	9.95	1.38
75.20.50.90.1	32941.54	629	613	32087.34	626	610	26423.72	1200	1185	20890.34	11862.00	9028.34	0.00	24	481	481	854	159		57.69	53.60	26.49
75.20.50.90.2	33231.12	875	871	33806.64	770	766	26774.62	1200	1198	23641.12	13989.00	9652.12	0.00	25	792	777	1071	496		40.56	43.00	13.25
75.20.50.90.3	34572.30	290	290	33763.18	302	301	26384.06	1200	1200	20678.92	12499.00	8179.92	0.00	24	582	582	801	154		67.19	63.27	27.59
75.20.100.50.1	66773.34	1193	957	66773.34	1176	944	66587.55	1200	916	66470.48	26678.00	39792.48	0.00	64	401	388	466	13		0.46	0.46	0.18
75.20.100.50.2	69453.80	753	634	68820.38	1097	1069	68688.92	1200	1158	66515.24	22133.00	44382.24	0.00	55	456	449	528	3		4.42	3.47	3.27
75.20.100.50.3	67940.93	1200	1165	67940.93	1200	1174	66793.27	1200	1161	65341.68	24672.00	40669.68	0.00	60	455	447	464	174		3.98	3.98	2.22
75.20.100.70.1	45184.35	1200	1174	45326.62	1200	1082	44056.02	1200	1140	42416.93	20449.00	21967.93	0.00	46	840	787	603	107		6.52	6.86	3.86
75.20.100.70.2	47156.64	1119	1010	48419.20	843	769	47585.58	1200	1182	40466.82	16372.00	24094.82	0.00	43	442	357	474	3		16.53	19.65	17.59
75.20.100.70.3	47113.17	921	911	46786.39	1042	970	44553.63	1200	1140	40353.72	18863.00	21490.72	0.00	47	511	502	518	7		16.75	15.94	10.41
75.20.100.90.1	31246.21	1200	1197	31597.11	1200	1194	29765.65	1200	1144	21308.66	13321.00	7987.66	0.00	26	1688	1659	1327	10		46.64	48.28	39.69
75.20.100.90.2	34829.12	840	838	35259.10	838	838	34032.83	1200	1119	20035.62	10834.00	9201.62	0.00	25	1035	1007	814	63		73.84	75.98	69.86
75.20.100.90.3	33708.05	858	849	33661.15	1126	1111	31582.08	1200	1195	19859.36	11499.00	8360.36	0.00	28	2771	2737	601	938		69.73	69.50	59.03
75.20.200.50.1	75743.65	1200	165	75970.27	1200	171	73902.45	1200	1020	72836.46	25590.00	47246.45	0.00	64	2557	2392	420	859		3.99	4.30	1.46
75.20.200.50.2	69622.81	1200	183	69622.81	1200	184	69164.01	1200	995	68537.68	27538.00	40999.67	0.33	65	-	5553	739	3063		1.58	1.58	0.91
75.20.200.50.3	84482.08	1200	260	84516.06	1200	471	84128.94	1200	1177	83870.75	30468.00	53402.75	0.29	67	-	7200	418	6088		0.73	0.77	0.31
75.20.200.70.1	51563.98	1200	163	51643.17	1200	137	49150.97	1200	1052	43306.85	17673.00	25633.85	0.00	46	1754	1701	680	11		19.07	19.25	13.49
75.20.200.70.2	46046.11	1200	834	46046.11	1200	929	45281.36	1200	1172	41273.03	19129.00	22144.03	0.00	47	2948	2793	981	70		11.56	11.56	9.71
75.20.200.70.3	53867.55	1200	1159	54197.44	1200	146	53400.34	1200	1058	48507.69	21497.00	27010.69	0.00	49	2194	2003	560	3		11.05	11.73	10.09
75.20.200.90.1	36288.60	1200	1082	36320.11	1200	1054	34065.20	1200	1173	20821.87	11110.00	9711.87	0.00	32	6867	6056	993	346		74.28	74.43	63.60
75.20.200.90.2	33317.05	1200	1157	33275.65	1200	1159	31914.56	1200	1191	20232.88	13631.00	6601.88	0.00	28	3689	3212	1026	39		64.67	64.46	57.74
75.20.200.90.3	36662.34	1200	170	36376.60	1200	1176	35504.27	1200	1015	31947.63	20406.00	11541.64	33.67	21	-	6116	770	147		14.76	13.86	11.13
75.35.50.50.1	114314.28	1200	487	114380.86	1200	1148	114314.28	1200	203	114314.28	32644.00	81670.28	0.00	72	344	10	476	90		0.00	0.06	0.00
75.35.50.50.2	105954.88	814	80	105771.68	1048	362	105813.62	1200	280	105771.68	30801.00	74970.68	0.00	72	247	10	554	0		0.17	0.00	0.04
75.35.50.50.3	99866.74	1163	37	99828.42	1200	860	99866.74	1200	38	99828.42	32774.00	67054.42	0.00	72	247	8	376	58		0.04	0.00	0.04
75.35.50.70.1	68068.84	1200	1142	68077.76	1200	1182	67766.36	1200	1112	66387.08	25995.00	40392.08	0.00	58	541	541	564	260		2.53	2.55	2.08
75.35.50.70.2	63587.02	812	668	63501.70	1072	976	63229.50	1200	762	62064.98	24439.00	37625.98	0.00	59	423	423	572	15		2.45	2.31	1.88
75.35.50.70.3	62703.56	745	674	62137.34	1123	1074	61910.50	1200	1145	60117.74	26603.00	33514.74	0.00	60	333	255	609	0		4.30	3.36	2.98
75.35.50.90.1	39608.38	1200	1138	39608.38	1200	1177	36900.12	1200	1135	29686.10	14987.00	14699.10	0.00	34	1628	1600	679	324		33.42	33.42	24.30
75.35.50.90.2	38097.94	1200	1088	37648.00	1200	1198	35662.06	1200	1171	29814.28	17740.00	12074.28	0.00	37	883	883	998	38		27.78	26.28	19.61
75.35.50.90.3	38472.78	753	710	38939.26	831	725	36753.62	1200	1196	29858.78	15830.00	14028.78	0.00	32	769	695	896	40		28.85	30.41	23.09
75.35.100.50.1	109600.88	1201	115	109500.87	1200	1105	109600.88	1200	160	109454.80	32595.00	76859.80	0.00	71	588	584	230	713		0.13	0.04	0.13
75.35.100.50.2	108665.16	1200	860	108665.16	1200	1009	108665.16	1200	400	108665.16	32555.00	76110.16	0.00	72	431	27	235	13		0.00	0.00	0.00
75.35.100.50.3	91916.93	1200	956	91899.75	1200	1083	91779.56	1200	715	91552.52	31804.00	59748.52	0.00	69	1488	1415	272	3818		0.40	0.38	0.25
75.35.100.70.1	65242.25	1200	1012	65242.25	1200	1055	64452.17	1200	1127	62470.03	27495.00	34975.03	0.00	61	1550	1550	309	310		4.44	4.44	3.17
75.35.100.70.2	65082.41	1200	903	64956.50	1200	845	64367.95	1200	1043	63838.73	27248.00	36590.73	0.00	63	2290	2093	415	1134		1.95	1.75	0.83
75.35.100.70.3	59904.72	1200	1193	60208.51	1200	936	59008.36	1200	1125	57085.33	26708.00	30377.33	0.00	57	856	797	499	28		4.94	5.47	3.37
75.35.100.90.1	39880.03	1200	1048	39790.81	1200	931	37853.07	1200	1155	27549.62	15563.00	11986.62	0.00	34	1422	1201	428	23		44.76	44.43	37.40

75.35.100.90.2	39524.21	1200	846	39524.21	1200	813	37365.61	1200	1121	28846.90	15535.00	13311.90	0.00	33	3921	3920	509	403			37.01	37.01	29.53
75.35.100.90.3	41426.57	1200	876	41377.80	1200	767	39563.46	1200	1066	31769.71	18395.00	13374.71	0.00	37	2531	2493	592	201			30.40	30.24	24.53
75.35.200.50.1	105698.12	1200	392	105698.12	1200	394	105152.55	1200	667	105152.55	30159.00	74993.54	0.00	72	1911	711	213	263			0.52	0.52	0.00
75.35.200.50.2	111023.65	1200	348	111027.68	1200	293	110833.47	1200	701	110749.82	30280.00	80469.82	0.00	70	2143	2098	352	52			0.25	0.25	0.08
75.35.200.50.3	96750.55	1200	187	96819.15	1200	28	96750.55	1200	210	96750.55	32089.00	64661.55	0.00	73	3001	349	571	1047			0.00	0.07	0.00
75.35.200.70.1	65092.29	1200	691	65092.29	1200	593	63535.14	1200	1128	60847.37	21298.00	39549.37	0.00	56	2368	1878	317	49			6.98	6.98	4.42
75.35.200.70.2	67388.89	1200	335	67388.89	1200	296	66872.17	1200	822	64260.15	22677.00	41583.15	0.00	55	5094	5094	514	158			4.87	4.87	4.06
75.35.200.70.3	59913.12	1200	186	59913.12	1200	188	59351.91	1200	1158	57494.06	24939.00	32555.06	0.58	59	-	6765	670	581			4.21	4.21	3.23
75.35.200.90.1	40500.74	1200	858	40809.87	1200	272	38391.89	1200	1085	27225.25	14025.00	13200.25	0.00	37	5551	4962	900	21			48.76	49.90	41.02
75.35.200.90.2	41168.13	1200	280	41168.13	1200	281	40049.52	1200	1166	27063.60	12737.00	14326.60	0.00	35	3686	3167	546	24			52.12	52.12	47.98
75.35.200.90.3	38847.68	1200	311	38847.68	1200	314	37596.28	1200	1058	27744.19	16464.00	11280.20	0.17	32	-	5675	1190	9			40.02	40.02	35.51
75.50.50.50.1	130476.04	1200	662	130476.04	1200	631	130476.04	1200	227	130476.04	32271.00	98205.04	0.00	72	263	10	277	5			0.00	0.00	0.00
75.50.50.50.2	135698.16	1200	694	135721.02	1200	949	135698.16	1200	244	135698.16	32670.00	103028.16	0.00	72	267	17	347	251			0.00	0.02	0.00
75.50.50.50.3	127197.24	1200	694	127197.24	1200	634	127197.24	1200	276	127197.24	32408.00	94789.24	0.00	72	256	9	375	1			0.00	0.00	0.00
75.50.50.70.1	76956.66	1200	971	76612.42	1201	1138	76248.24	1200	966	76248.24	29469.00	46779.24	0.00	67	396	17	457	8			0.93	0.48	0.00
75.50.50.70.2	77544.76	1066	873	77396.22	1180	954	77293.92	1200	663	76451.00	28226.00	48225.00	0.00	63	463	448	385	89			1.43	1.24	1.10
75.50.50.70.3	75955.40	1137	637	75023.28	1200	1112	74526.82	1200	983	73923.76	29397.00	44526.76	0.00	66	426	411	478	10			2.75	1.49	0.82
75.50.50.90.1	44129.34	1200	1057	43968.86	1200	1102	41935.16	1200	1184	35449.04	19408.00	16041.04	0.00	43	556	404	530	11			24.49	24.03	18.30
75.50.50.90.2	42846.46	1108	1088	42491.16	895	892	40890.32	1200	1136	34174.84	18039.00	16135.84	0.00	41	984	822	663	51			25.37	24.33	19.65
75.50.50.90.3	43312.96	1200	1160	43424.74	1200	1128	40588.22	1200	1110	35008.36	17716.00	17292.36	0.00	41	746	662	562	27			23.72	24.04	15.94
75.50.100.50.1	129603.44	1200	116	129598.02	1200	1157	129598.02	1200	448	129598.02	33411.00	96187.02	0.00	72	781	58	364	620			0.00	0.00	0.00
75.50.100.50.2	123479.06	1200	104	123479.06	1200	105	123479.06	1200	107	123479.06	34103.00	89376.06	0.00	74	658	49	464	0			0.00	0.00	0.00
75.50.100.50.3	124888.82	1200	42	124888.82	1200	44	124805.52	1200	127	124805.52	32888.00	91917.52	0.00	73	487	41	195	1			0.07	0.07	0.00
75.50.100.70.1	76030.51	1200	119	76030.51	1200	120	75730.38	1200	1071	75207.88	30901.00	44306.88	0.00	68	1333	1258	226	417			1.09	1.09	0.69
75.50.100.70.2	74014.25	1200	1050	74074.07	1200	1160	73551.72	1200	955	72903.71	28051.00	44852.71	0.00	62	1914	1760	453	577			1.52	1.61	0.89
75.50.100.70.3	73587.68	1200	1116	73372.54	1200	1195	72846.03	1200	1119	72199.73	26548.00	45651.73	0.00	61	1555	1160	369	31			1.92	1.62	0.90
75.50.100.90.1	44088.15	1200	1200	44088.15	1200	1162	43388.50	1200	1101	35468.48	19727.00	15741.48	0.00	41	6276	6030	464	618			24.30	24.30	22.33
75.50.100.90.2	44374.58	1200	1056	44374.58	1200	1187	43344.31	1200	1198	35902.01	18599.00	17303.01	0.00	40	5494	5338	756	365			23.60	23.60	20.73
75.50.100.90.3	43323.44	1200	1092	43179.40	1200	979	42090.89	1200	1201	33738.40	15719.00	18019.40	2.45	37	-	5080	442	219			28.41	27.98	24.76
75.50.200.50.1	128218.10	1200	65	128218.10	1200	67	128218.10	1200	67	128218.10	34118.00	94100.10	0.00	74	1985	625	201	241			0.00	0.00	0.00
75.50.200.50.2	139726.77	1200	410	139726.77	1200	468	139726.77	1200	261	139726.76	33166.00	106560.76	0.06	73	-	750	300	9713			0.00	0.00	0.00
75.50.200.50.3	121704.67	1200	98	121704.67	1200	100	121704.67	1200	100	121704.67	33043.00	88661.67	0.00	74	1447	681	253	0			0.00	0.00	0.00
75.50.200.70.1	76338.27	1200	212	76338.27	1200	213	75705.69	1200	835	74580.54	27698.00	46882.54	0.00	63	4291	3710	350	19			2.36	2.36	1.51
75.50.200.70.2	81007.32	1200	409	81007.32	1200	414	80576.47	1200	1039	80576.47	31666.00	48910.47	2.00	72	-	878	569	119			0.53	0.53	0.00
75.50.200.70.3	73091.81	1200	334	73091.81	1200	336	72710.26	1200	937	71645.79	25552.00	46093.79	0.00	62	6933	5301	389	787			2.02	2.02	1.49
75.50.200.90.1	44155.10	1200	199	44454.28	1200	473	43468.93	1200	1189	33746.36	16068.00	17678.36	0.62	38	-	546	634	0			30.84	31.73	28.81
75.50.200.90.2	45096.18	1200	296	45096.18	1200	300	44330.92	1200	1113	44330.92	31666.00	12664.93	19.43	72	-	588	719	0			1.73	1.73	0.00
75.50.200.90.3	44121.74	1200	252	44271.92	1200	221	43469.67	1200	789	43469.67	31355.00	12114.67	24.20	72	-	454	687	0	7.00		1.50	1.85	0.00
													1.03								15.16	15.13	11.33