

# Profiles for Single Attributes

Guido Moerkotte

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## 1 Profile Summaries

### 1.1 Profile Summaries for citeseer

citeseer, NoCoeffLimit=1				
q-err	#buckets	size	bits	cpu
1.7	21	1423	6	5.318
2	24	1120	5	8.678
2.3	28	911	4	9.696
2.5	33	863	4	11.194
2.7	28	784	3	17.749
3	32	664	3	27.25
3.3	29	597	2	35.382
3.5	32	576	2	42.737
3.7	33	556	2	43.251
4	28	469	2	48.393
4.5	28	408	2	46.363
5	24	328	1	50.11

citeseer, NoCoeffLimit=2				
q-err	#buckets	size	bits	cpu
1.7	15	1373	6	12.433
2	27	1125	5	20.622
2.3	29	901	4	29.993
2.5	25	824	3	38.086
2.7	25	746	3	63.486
3	26	635	3	69.995
3.3	21	546	2	80.592
3.5	21	489	2	105.358
3.7	21	471	2	109.758
4	25	420	2	112.214
4.5	19	314	1	112.789
5	14	220	1	143.683

citeseer, NoCoeffLimit=3				
q-err	#buckets	size	bits	cpu
1.7	15	1373	6	20.188
2	27	1125	5	39.133
2.3	29	901	4	51.336
2.5	24	828	3	66.757
2.7	24	750	3	105.573
3	26	635	3	110
3.3	21	546	2	126.345
3.5	20	480	2	165.449
3.7	22	470	2	173.936
4	23	389	2	181.129
4.5	18	307	1	181.191
5	14	220	1	241.429

## 1.2 Profile Summaries for ecb\_usdeur

ecb_usdeur, NoCoeffLimit=1				
q-err	#buckets	size	bits	cpu
1.7	403	8562	33	7.461
2	466	7629	30	8.311
2.3	439	6657	26	7.676
2.5	391	5856	23	7.011
2.7	351	5189	20	6.424
3	290	4237	16	5.96
3.3	240	3520	14	5.722
3.5	209	3076	12	6.206
3.7	186	2696	10	6.934
4	151	2222	9	8.158
4.5	113	1601	6	12.836
5	79	1183	5	18.676
ecb_usdeur, NoCoeffLimit=3				
q-err	#buckets	size	bits	cpu
1.7	402	8558	33	23.056
2	466	7634	30	26.055
2.3	422	6558	25	23.401
2.5	350	5636	22	20.857
2.7	300	4866	19	19.694
3	225	3864	15	19.616
3.3	175	3153	12	21.832
3.5	146	2682	10	26.201
3.7	124	2307	9	36.212
4	86	1758	7	45.663
4.5	55	1161	5	87.82
5	42	890	3	131.74

ecb_usdeur, NoCoeffLimit=2				
q-err	#buckets	size	bits	cpu
1.7	402	8558	33	15.098
2	466	7634	30	16.947
2.3	422	6558	25	15.24
2.5	350	5636	22	13.345
2.7	300	4866	19	12.329
3	225	3864	15	11.788
3.3	176	3156	12	12.339
3.5	146	2669	10	14.018
3.7	128	2336	9	18.148
4	95	1820	7	25.324
4.5	62	1216	5	45.733
5	49	919	4	79.405

### 1.3 Profile Summaries for uniprotAA

uniprotAA, NoCoeffLimit=1				
q-err	#buckets	size	bits	cpu
1.7	36	1330	4	9.916
2	33	992	3	23.368
2.3	22	906	3	30.955
2.5	29	802	3	33.275
2.7	36	718	2	41.482
3	34	629	2	44.802
3.3	27	573	2	49.75
3.5	27	538	2	50.259
3.7	25	495	2	59.184
4	23	450	1	55.321
4.5	19	400	1	76.353
5	26	373	1	77.663

uniprotAA, NoCoeffLimit=2				
q-err	#buckets	size	bits	cpu
1.7	26	1261	4	27.667
2	28	952	3	50.251
2.3	25	917	3	72.901
2.5	32	791	3	80.327
2.7	33	702	2	97.628
3	29	626	2	101.361
3.3	24	563	2	110.486
3.5	23	521	2	116.698
3.7	20	476	2	120.226
4	19	450	1	112.46
4.5	18	392	1	156.26
5	21	376	1	158.77

uniprotAA, NoCoeffLimit=3				
q-err	#buckets	size	bits	cpu
1.7	26	1266	4	33.636
2	28	956	3	92.025
2.3	24	914	3	126.653
2.5	32	802	3	132.586
2.7	30	693	2	141.37
3	29	631	2	154.92
3.3	24	569	2	187.555
3.5	23	521	2	190.499
3.7	20	476	2	194.089
4	18	441	1	184.285
4.5	18	392	1	248.111
5	22	378	1	252.625

## 1.4 Profile Summaries for uniprotMW

uniprotMW, NoCoeffLimit=1				
q-err	#buckets	size	bits	cpu
1.7	286	50638	6	168.709
2	688	39273	4	150.397
2.3	912	34613	4	198.78
2.5	1152	30828	3	408.621
2.7	1024	25526	3	990.722
3	813	19668	2	1482.08
3.3	829	17993	2	1775.38
3.5	802	17304	2	1845.91
3.7	815	16403	2	1977.59
4	775	14505	2	2129.95
4.5	786	12854	1	2238.29
5	756	11100	1	2571.66
uniprotMW, NoCoeffLimit=3				
q-err	#buckets	size	bits	cpu
1.7	275	50510	6	497.347
2	693	39283	4	487.54
2.3	795	33969	4	631.739
2.5	978	29616	3	1290.73
2.7	816	23814	3	3162.05
3	688	19026	2	4734.67
3.3	647	16867	2	5865
3.5	614	15832	2	6208.44
3.7	581	14503	2	6991.73
4	602	13095	1	7610.83
4.5	535	10289	1	8964.38
5	436	7863	1	11404.7

uniprotMW, NoCoeffLimit=2				
q-err	#buckets	size	bits	cpu
1.7	272	50510	6	327.37
2	692	39278	4	312.521
2.3	805	33984	4	402.693
2.5	976	29592	3	829.709
2.7	819	23819	3	2054.78
3	689	19007	2	3108.37
3.3	650	16908	2	3787.76
3.5	625	15883	2	3966.85
3.7	597	14656	2	4452.73
4	637	13476	1	4776.3
4.5	578	10673	1	5601.57
5	466	8118	1	6704.95

## 1.5 Profile Summaries for wtrslp

wtrslp, NoCoeffLimit=1				
q-err	#buckets	size	bits	cpu
1.7	370	5838	26	2.104
2	352	5231	23	2.11
2.3	152	2159	10	2.942
2.5	22	330	1	37.822
2.7	20	294	1	41.968
3	17	244	1	42.279
3.3	44	591	3	14.017
3.5	14	193	1	51.312
3.7	35	462	2	23.244
4	29	388	2	22.934
4.5	22	301	1	31.285
5	18	241	1	55.661

wtrslp, NoCoeffLimit=2				
q-err	#buckets	size	bits	cpu
1.7	370	5838	26	4.799
2	227	4039	18	4.341
2.3	129	2024	9	10.786
2.5	13	255	1	103.248
2.7	11	220	1	102.328
3	10	194	1	90.94
3.3	41	574	3	38.41
3.5	8	149	1	138.007
3.7	32	459	2	52.942
4	27	367	2	58.436
4.5	21	288	1	81.791
5	18	241	1	127.063

wtrslp, NoCoeffLimit=3				
q-err	#buckets	size	bits	cpu
1.7	370	5838	26	7.735
2	227	4039	18	7.452
2.3	129	2028	9	19.047
2.5	12	257	1	152.086
2.7	11	224	1	165.025
3	10	194	1	183.945
3.3	41	574	3	63.387
3.5	8	161	1	224.333
3.7	32	459	2	96.658
4	27	367	2	99.531
4.5	21	288	1	132.655
5	18	241	1	199.06

## 1.6 Profile Summaries for wrtmp

wrtmp, NoCoeffLimit=1				
q-err	#buckets	size	bits	cpu
1.7	457	6949	25	3.003
2	398	5639	20	3.21
2.3	246	3474	12	5.709
2.5	143	2021	7	12.209
2.7	99	1359	5	34.689
3	67	900	3	50.977
3.3	46	615	2	52.727
3.5	36	502	2	83.388
3.7	34	455	2	90.14
4	27	372	1	93.928
4.5	21	290	1	116.72
5	19	264	1	113.759
wrtmp, NoCoeffLimit=3				
q-err	#buckets	size	bits	cpu
1.7	457	6949	25	10.83
2	357	5210	19	12.937
2.3	136	2390	9	52.252
2.5	87	1515	5	105.809
2.7	69	1180	4	147.225
3	51	834	3	251.666
3.3	40	609	2	279.681
3.5	34	490	2	367.953
3.7	31	456	2	423.951
4	26	381	1	426.981
4.5	21	308	1	482.446
5	18	272	1	478.114

wrtmp, NoCoeffLimit=2				
q-err	#buckets	size	bits	cpu
1.7	457	6949	25	6.68
2	357	5210	19	7.586
2.3	136	2390	9	27.9
2.5	87	1515	5	55.135
2.7	69	1180	4	87.587
3	51	834	3	144.727
3.3	40	609	2	162.123
3.5	34	490	2	225.128
3.7	31	456	2	256.921
4	26	381	1	260.464
4.5	21	308	1	293.061
5	18	264	1	296.213

## 2 Excerpts

### 2.1 Excerpts From Homogeneous Profiles

attr	T—	TM—	T-Q—	TMQ—	T-QT-	TMQT-
citeseer	6422	7599	5130	5698	8757	9875
ecb_usdeur	9230	12818	10127	11411	14952	18100
uniprotAA	5928	6647	4735	5137	8169	8925
uniprotMW	290238	329154	226690	251004	393225	429000
wtrslp	6929	4080	6578	8504	10353	12475
wrtmp	6721	5695	6591	8137	10563	11975

## 2.2 Excerpts From Heterogeneous Profiles, NoCoeffLimit=1

Heterogeneous Profile, NoCoeffLimit = 1						
attr	nodistval	size	bits	qerr	size	bits
citeseer	1916	1120	5			
ecb_usdeur	2064	7629	30	3.5	3076	12
uniprotAA	2522	992	3			
uniprotMW	72519	39273	4	5	11100	1
wtrslp	1797	5231	23	2.3	2159	10
wtrtmp	2237	5639	20	2.5	2021	7

## 2.3 Excerpts From Heterogeneous Profiles, NoCoeffLimit=2

Heterogeneous Profile, NoCoeffLimit = 2						
attr	nodistval	size	bits	qerr	size	bits
citeseer	1916	1125	5			
ecb_usdeur	2064	7634	30	3.3	3156	12
uniprotAA	2522	952	3			
uniprotMW	72519	39278	4	5	8118	1
wtrslp	1797	4039	18	2.3	2024	9
wtrtmp	2237	5210	19	2.3	2390	9

## 2.4 Excerpts From Heterogeneous Profiles, NoCoeffLimit=3

Heterogeneous Profile, NoCoeffLimit = 3						
attr	nodistval	size	bits	qerr	size	bits
citeseer	1916	1125	5			
ecb_usdeur	2064	7634	30	3.3	3153	12
uniprotAA	2522	956	3			
uniprotMW	72519	39283	4	5	7863	1
wtrslp	1797	4039	18	2.3	2028	9
wtrtmp	2237	5210	19	2.3	2390	9