Data collected by Quasar

last update: November 2007

Table 3. Quasar data variation when adding a protected object

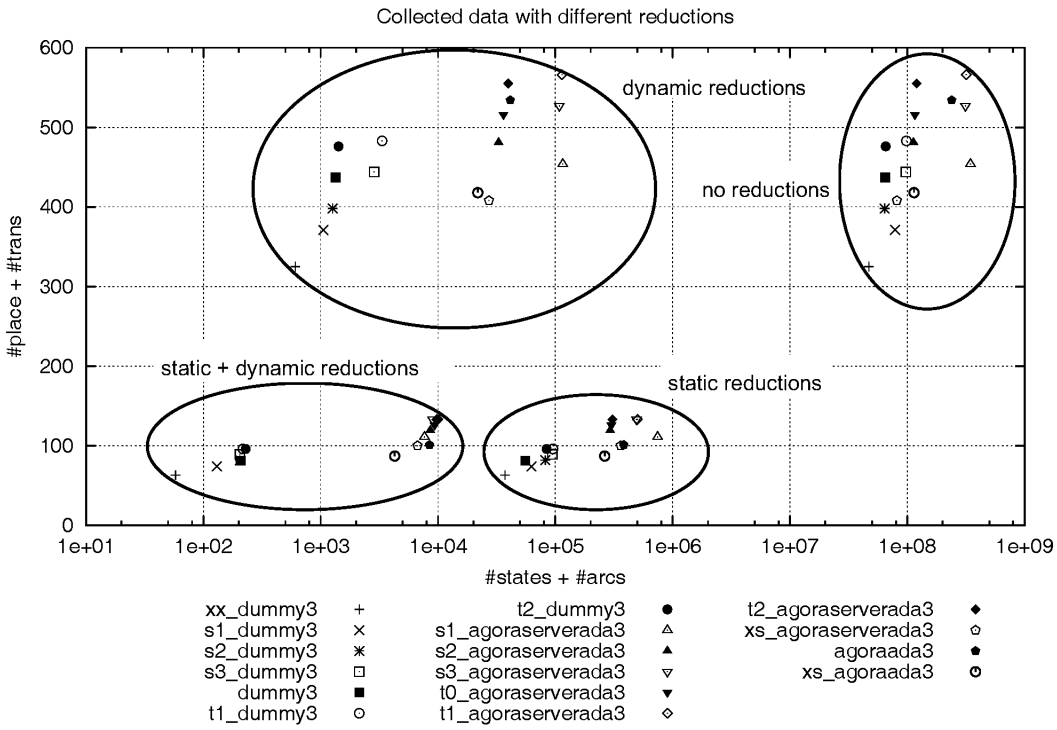
Program name in different extensions with N = 3	# task	# RV	# PO	#Places/ reduced	#transitions/ reduced	#States Stored With reductions	#Arcs Visited With reductions	#States Stored without reductions	#Arcs Visited without reductions
dummy component			**with**	**a**	**shared**			**procedure**	
xx_dummy3	4	0	0	168/37	157/26	29	29	9 608 380	37 388 544
s1_dummy3	4	0	1	192/44	179/30	65	65	16 062 612	6 9421 204
adding a PO				*24/7*	*22/4*	*36*	*36*		
s2_dummy3	4	1	0	205/47	193/35	102	103	13 160 577	50 916 986
s3_dummy3	4	1	1	229/52	215/37	102	103	19 989 509	77 383 894
adding a PO				*24/5*	*22/2*	*0*	*0*		
dummy3	4	2	0	225/47	212/34	103	104	13 312 421	*51 459 540*
t1_dummy3	4	2	1	249/56	234/40	108	109	20 166 873	78 017 848
adding a PO				*24/9*	*22/6*	*5*	*5*		
agoraserverada			**Ada**	**protected**	**object**			**implementation**	
xs_agoraserverada3	4	0	0	212/58	196/42	3 279	3 144	17 316 336	64 230 366
s1_agoraserverada3	4	0	1	236/65	218/46	3 766	3 901	72 406 616	273 741 102
adding a PO				*24/7*	*22/4*	*487*	*757*		
s2_agoraserverada3	4	1	0	249/68	232/51	4 208	4 369	23 798 499	88 896 730
s3_agoraserverada3	4	1	1	273/73	254/53	4 416	4 577	65 691 467	247 715 698
adding a PO				*24/5*	*22/2*	*208*	*208*		
agoraserverada3	4	2	0	267/72	249/54	4 572	4 759	24 563 347	91 637 360
t1_agoraserverada3	4	2	1	293/77	273/56	4 780	4 967	66 789 871	251 631 984
adding a PO				*26/5*	*24/2*	*208*	*208*		

Table 4. Quasar data variation when adding a rendezvous

Program name in different extensions with N = 3	# task	# RV	# PO	#Places/ reduced	#transitions/ reduced	#States Stored With reductions	#Arcs visited With reductions	#States Stored without reductions	#Arcs Visited without reductions
dummy component			**with**	**a**	**shared**			**procedure**	
xx_dummy3	4	0	0	168/37	157/26	29	29	9 608 380	37 388 544
s2_dummy3	4	1	0	205/47	193/35	102	103	13 160 577	50 916 986
adding a rendezvous				*37/10*	*36/9*	*73*	*74*		
s1_dummy3	4	0	1	192/44	179/30	65	65	16 062 612	69 421 204
s3_dummy3	4	1	1	229/52	215/37	102	103	19 989 509	77 383 894
adding a rendezvous				*37/8*	*36/7*	*36*	*37*		
s2_dummy3	4	1	0	205/47	193/35	102	103	13 160 577	50 916 986
dummy3	4	2	0	225/47	212/34	103	104	13 312 421	*51 459 540*
adding a rendezvous				*20/0*	*19/-1*	*1*	*1*		
s3_dummy3	4	1	1	229/52	215/37	102	103	19 989 509	77 383 894
t1_dummy3	4	2	1	249/56	234/40	108	109	20 166 873	78 017 848
adding a rendezvous				*20/4*	*19/3*	*6*	*6*		
dummy3	4	2	0	225/47	212/34	103	104	13 312 421	*51 459 540*
t2_dummy3	4	3	0	245/55	231/41	114	115	13 464 265	52 002 094
adding a rendezvous				*20/8*	*19/7*	*11*	*11*		
agoraserverada			**Ada**	**protected**	**object**			**implementation**	
xs_agoraserverada3	4	0	0	212/58	196/42	3 279	3 144	17 316 336	64 230 366
s2_agoraserverada3	4	1	0	249/68	232/51	4 208	4 369	23 798 499	88 896 730
adding a rendezvous				*37/910*	*36/9*	*929*	*1 225*		
s1_agoraserverada3	4	0	1	236/65	218/46	3 766	3 901	72 406 616	273 741 102
s3_agoraserverada3	4	1	1	273/73	254/53	4 416	4 577	65 691 467	247 715 698
adding a rendezvous				*37/8*	*36/7*	*650*	*676*		
s2_agoraserverada3	4	1	0	249/68	232/51	4 208	4 369	23 798 499	88 896 730
agoraserverada3	4	2	0	267/72	249/54	4 572	4 759	24 563 347	91 637 360
adding a rendezvous				*18/4*	*17/3*	*364*	*390*		
s3_agoraserverada3	4	1	1	273/73	254/53	4 416	4 577	65 691 467	247 715 698
t1_agoraserverada3	4	2	1	293/77	273/56	4 780	4 967	66 789 871	251 631 984
adding a rendezvous				*20/4*	*19/3*	*364*	*390*		
agoraserverada3	4	2	0	267/72	249/54	4 572	4 759	24 563 347	91 637 360
t2_agoraserverada3	4	3	0	287/76	268/57	4 936	5 149	25 355 511	94 456 846
adding a rendezvous				*20/4*	*19/3*	*364*	*390*		

Table 5. Quasar data with different kind of reductions

Different context names	**#Places/**	**ratio**	**#transitions/**	**ratio**	**#States stored**	**ratio**	**#Arcs visited**	**ratio**
dummy component			**with**	**a**	**shared**		**procedure**	
xx_dummy3 (0 RV, 0 PO)								
no reduction	168	1	157	1	9 608 380	1	37 388 544	1
static reduction only	37	4.5	26	6.0	8 548	1124	28 758	1 300
dynamic reduction only	168	1	157	1	303	31 711	303	123 395
static + dynamic reduction	37	4.5	26	6.0	29	331 323	29	1 289 260
s1_dummy3 (0 RV, 1 PO)								
no reduction	192	1	179	1	16 062 612	1	62 491 204	1
static reduction only	44	4.4	30	6	14 185	1 132	48 147	1 298
dynamic reduction only	192	1	179	1	526	30 537	528	118 355
static + dynamic reduction	44	4.4	30	6	65	247 117	65	961 403
s2_dummy3 (1 RV, 0 PO)								
no reduction	205	1	193	1	13 160 577	1	50 916 986	1
static reduction only	47	4.3	35	5.5	19 081	690	63 071	807
dynamic reduction only	205	1	193	1	632	20 824	633	80 437
static + dynamic reduction	47	4.3	35	5.5	102	129 025	103	494 340
s3_dummy3 (1 RV, 1 PO)								
no reduction	229	1	215	1	19 989 509	1	77 383 894	1
static reduction only	52	4.4	37	5.8	21 861	914	72 483	1 067
dynamic reduction only	229	1	215	1	1 422	14 057	1 430	54 115
static + dynamic reduction	52	4.4	37	5.8	102	195 976	103	751 300
dummy3 (2 RV, 0 PO)								
no reduction	225	1	212	1	13 312 421	1	51 459 540	1
static reduction only	47	4.8	34	6.2	13 053	1 020	42 511	1 210
dynamic reduction only	225	1	212	1	670	19 869	671	76 690
static + dynamic reduction	47	4.8	34	6.2	103	129 247	104	494 803
t1_dummy3 (2 RV, 1 PO)								
no reduction	249	1	234	1	20 166 873	1	78 017 848	1
static reduction only	56	4.4	40	5.8	22 185	909	72 281	1 079
dynamic reduction only	249	1	234	1	1 662	12 134	1 672	46 661
static + dynamic reduction	56	4.4	40	5.8	108	186 730	109	715 760
t2_dummy3 (3 RV,0 PO)								
no reduction	245	1	231	1	13 464 265	1	52 002 094	1
static reduction only	55	4.5	41	5.6	19 705	683	64 607	805
dynamic reduction only	245	1	231	1	708	19 017	709	73 346
static + dynamic reduction	55	4.5	41	5.6	114	118 108	115	452 192
agoraserverada		**Ada**	**protected**		**object**		**implementation**	
xs_agoraserverada3 (0 RV, 0 PO)								
no reduction	212	1	196	1	17 316 336	1	64 230 366	1
static reduction only	58	3.7	42	4.7	91 878	188	268 874	239
dynamic reduction only	212	1	196	1	13 534	1 279	13 669	4 699
static + dynamic reduction	58	3.7	42	4.7	3 279	5 281	3 414	18 814
s1_agoraserverada3 (0 RV, 1 PO)								
no reduction	236	1	218	1	72 406 616	1	273 741 102	1
static reduction only	65	3.6	46	4.7	182 484	397	561 181	488
dynamic reduction only	236	1	218	1	57 282	1 264	58 351	4 691
static + dynamic reduction	65	3.6	46	4.7	3 766	19 226	3 901	70 172
s2_agoraserverada3 (1 RV, 0 PO)								
no reduction	249	1	232	1	23 798 499	1	88 896 730	1
static reduction only	68	3.7	51	4.5	75 223	316	218 483	407
dynamic reduction only	249	1	232	1	16 342	1 456	16 503	5 387
static + dynamic reduction	68	3.7	51	4.5	4 208	5 656	4 369	20 347
s3_agoraserverada3 (1 RV, 1 PO)								
no reduction	273	1	254	1	65 691 467	1	247 715 698	1
static reduction only	73	3.7	53	4.8	123 451	532	369 703	670
dynamic reduction only	273	1	254	1	53 720	1 223	54 567	4 540
static + dynamic reduction	73	3.7	53	4.8	4 416	14 876	4 577	54 122
agoraserverada3 (2 RV, 0 PO)								
no reduction	267	1	249	1	24 563 347	1	91 637 360	1
static reduction only	72	3.7	54	4.6	77 077	319	222 947	411
dynamic reduction only	267	1	249	1	17 980	1 366	18 167	5 044
static + dynamic reduction	72	3.7	54	4.6	4 572	5 373	4 759	19 256
t1_agoraserverada3 (2 RV, 1 PO)								
no reduction	293	1	273	1	66 789 871	1	251 631 984	1
static reduction only	77	3.8	56	4.9	125 593	532	374 887	671
dynamic reduction only	293	1	273	1	56 494	1 182	57 391	4 385
static + dynamic reduction	77	3.8	56	4.9	4 780	13 973	4 967	50 661
t2_agoraserverada3 (3 RV,0 PO)								
no reduction	287	1	268	1	25 355 511	1	94 456 846	1
static reduction only	76	3.8	57	4.7	78 931	321	227 411	415
dynamic reduction only	287	1	268	1	19 722	1 286	19 935	4 738
static + dynamic reduction	76	3.8	57	4.7	4 936	5 137	5 149	18 345


Collected data with different reductions
dynamic reductions
no reductions
static + dynamic reductions
static reductions
#place + #trans
#states + #arcs
600
500
400
300
200
100
0
1e+01
1e+02
1e+03
1e+04
1e+05
1e+06
1e+07
1e+08
1e+09
xx_dummy3
s1_dummy3
s2_dummy3
s3_dummy3
dummy3
t1_dummy3
t2_dummy3
s1_agoraserverada3
s2_agoraserverada3
s3_agoraserverada3
t0_agoraserverada3
t1_agoraserverada3
t2_agoraserverada3
xs_agoraserverada3
agoraada3
xs_agoraada3