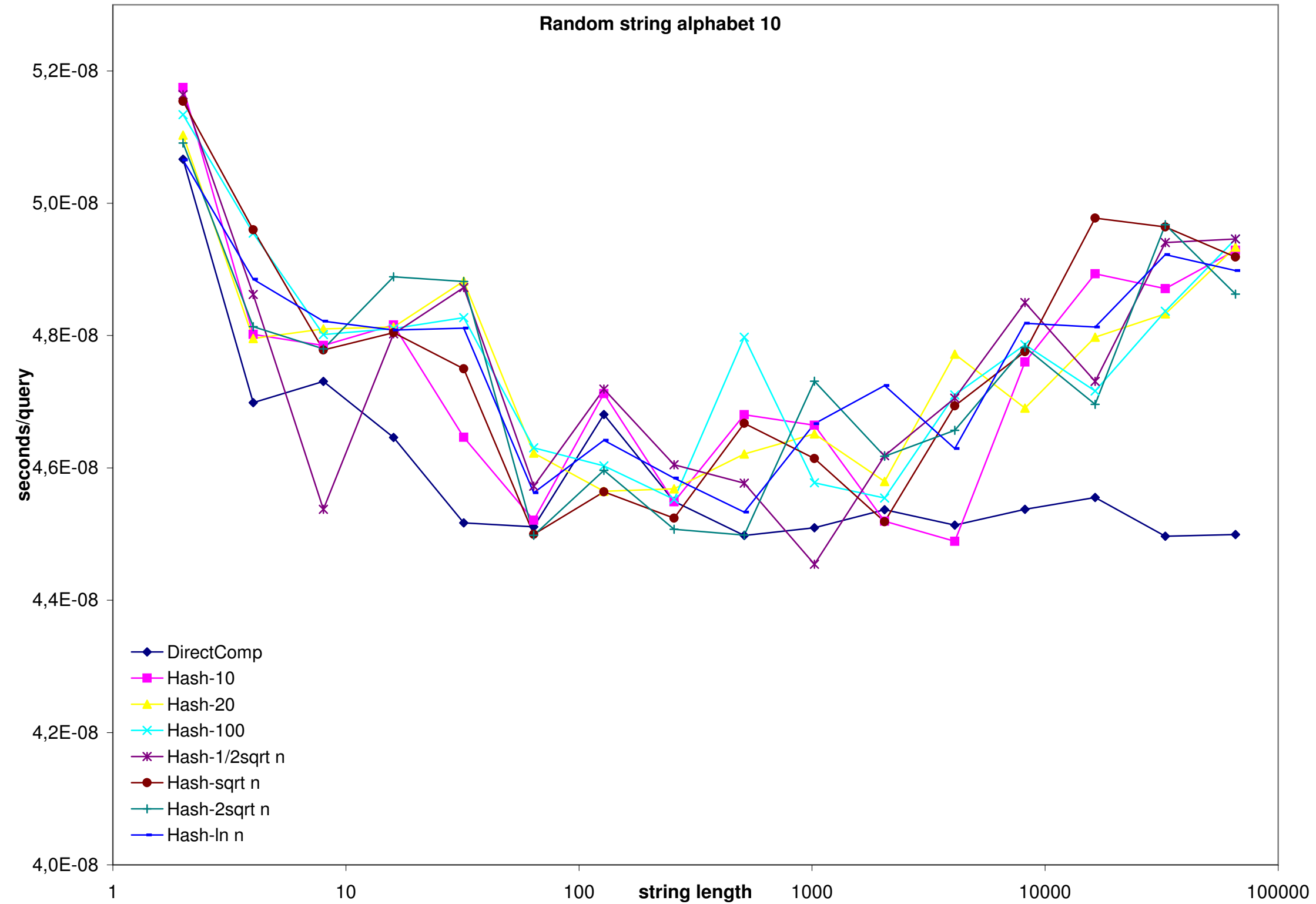
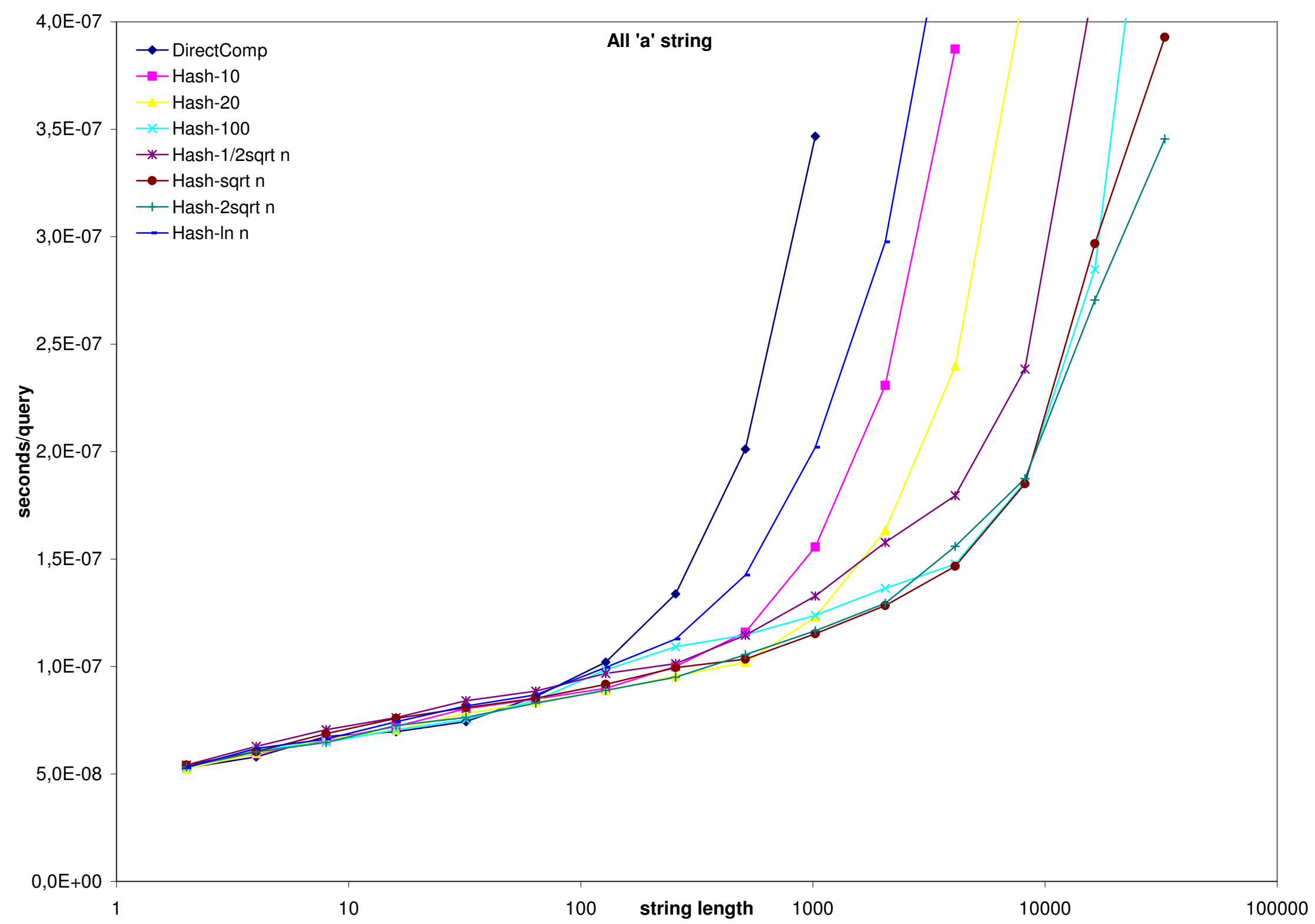


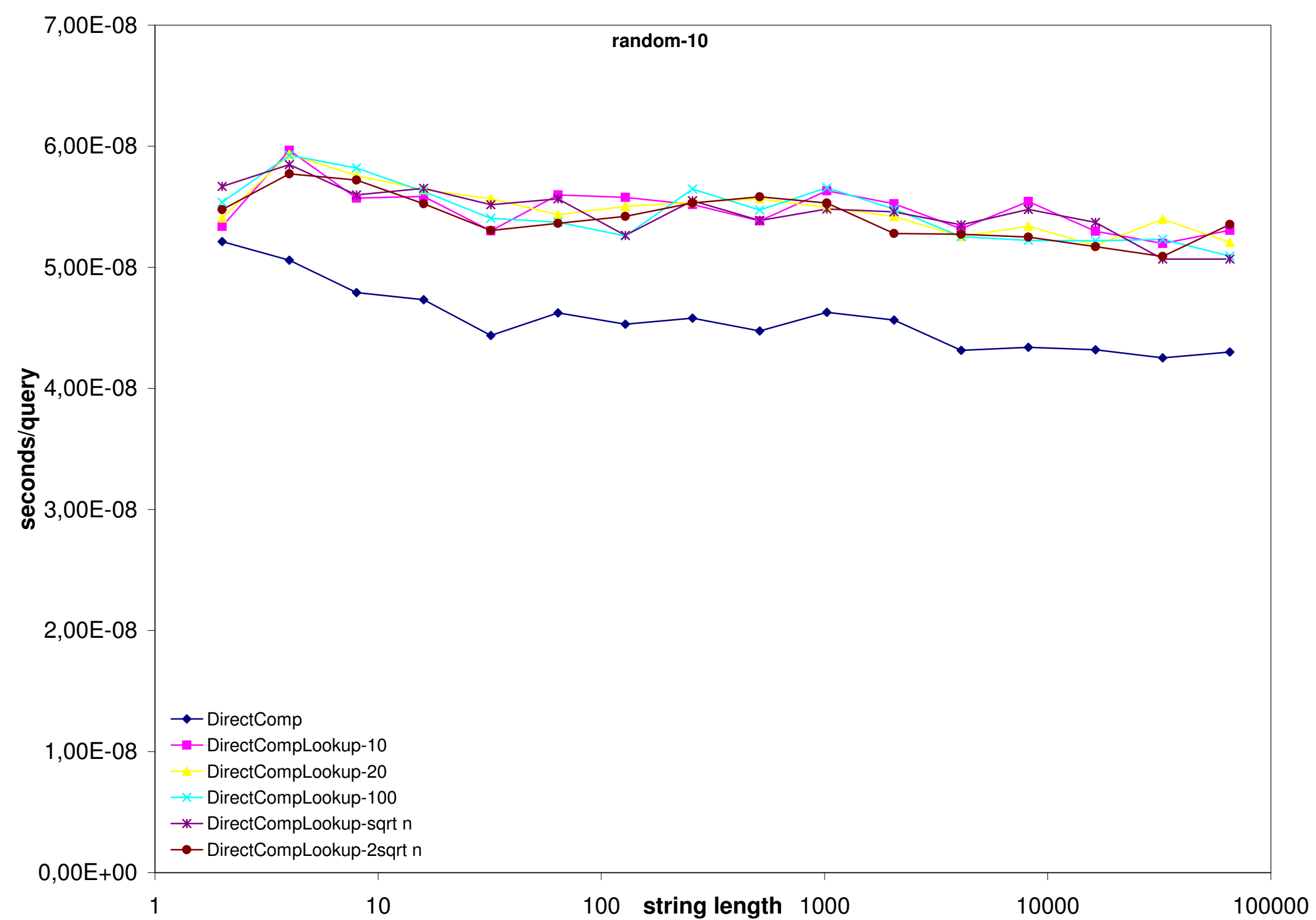
Random string alphabet 10

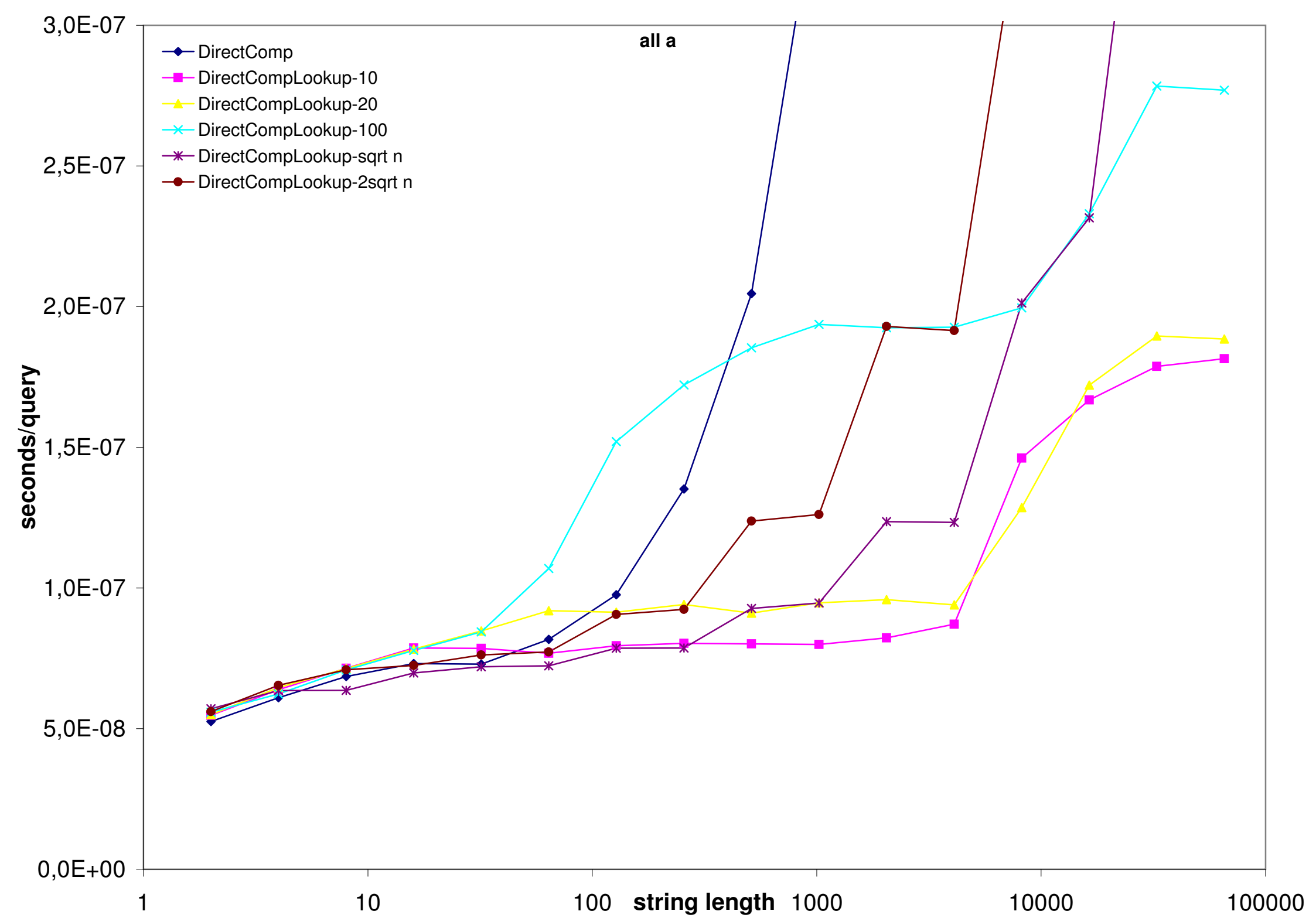


All 'a' string

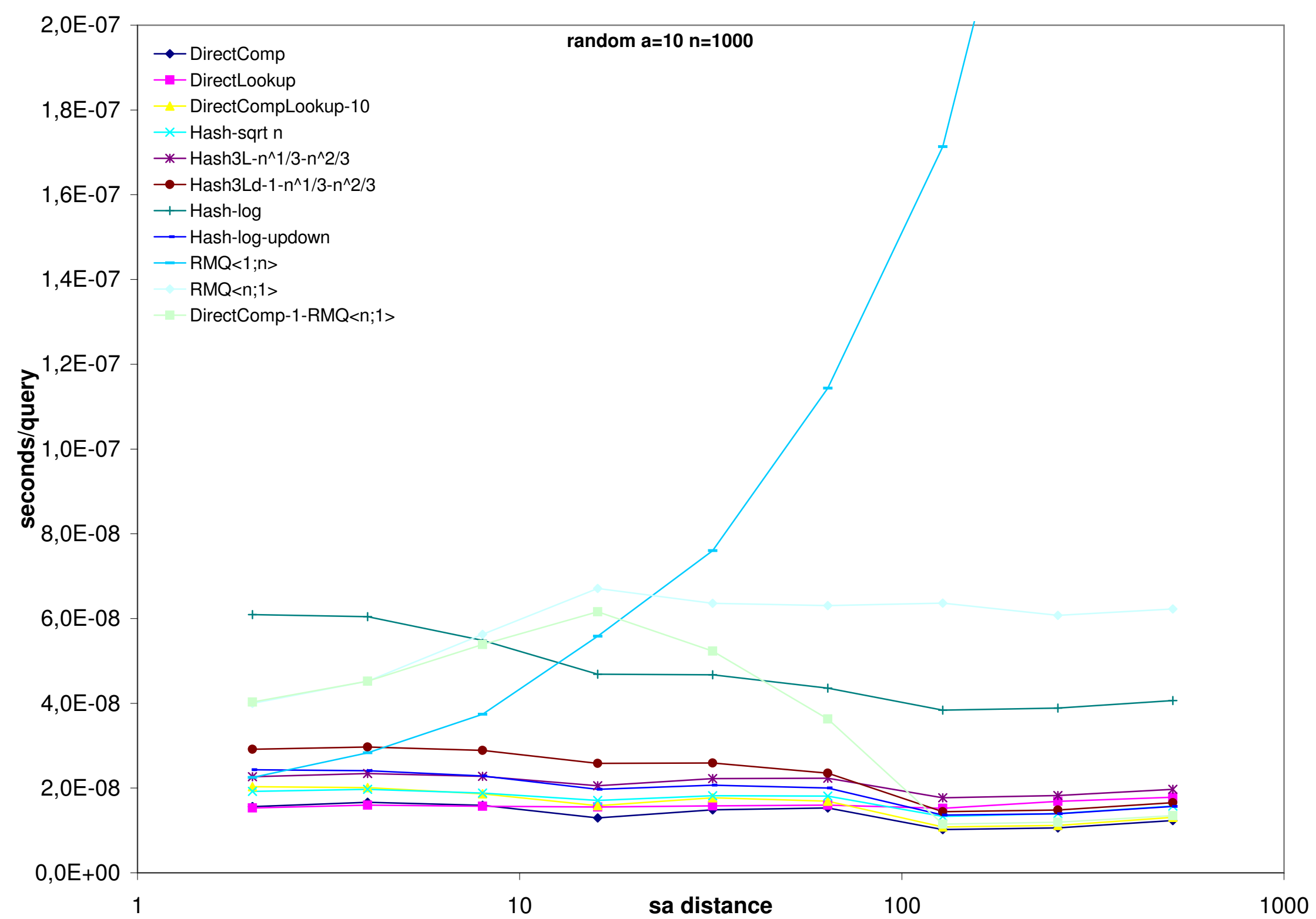


random-10

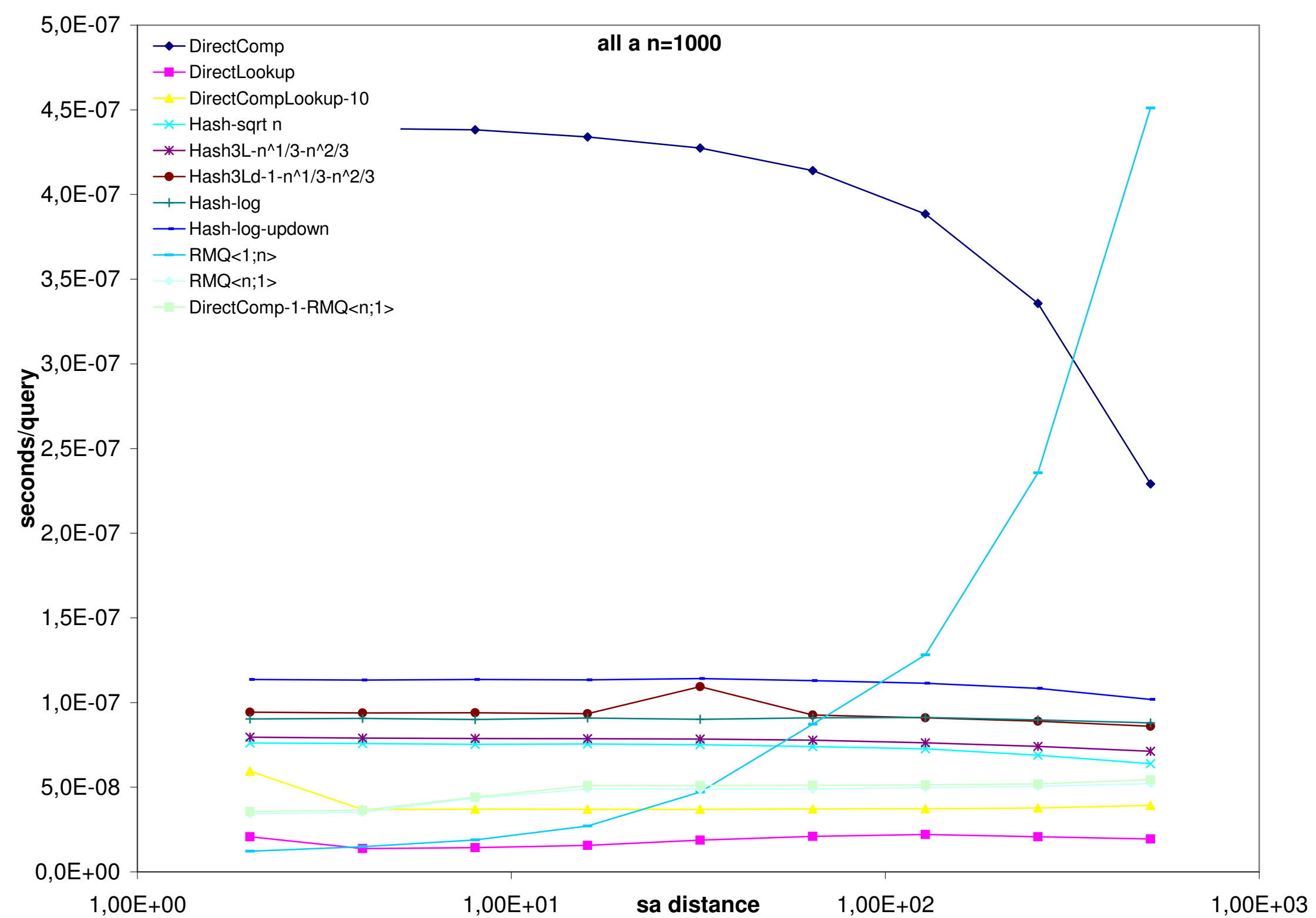


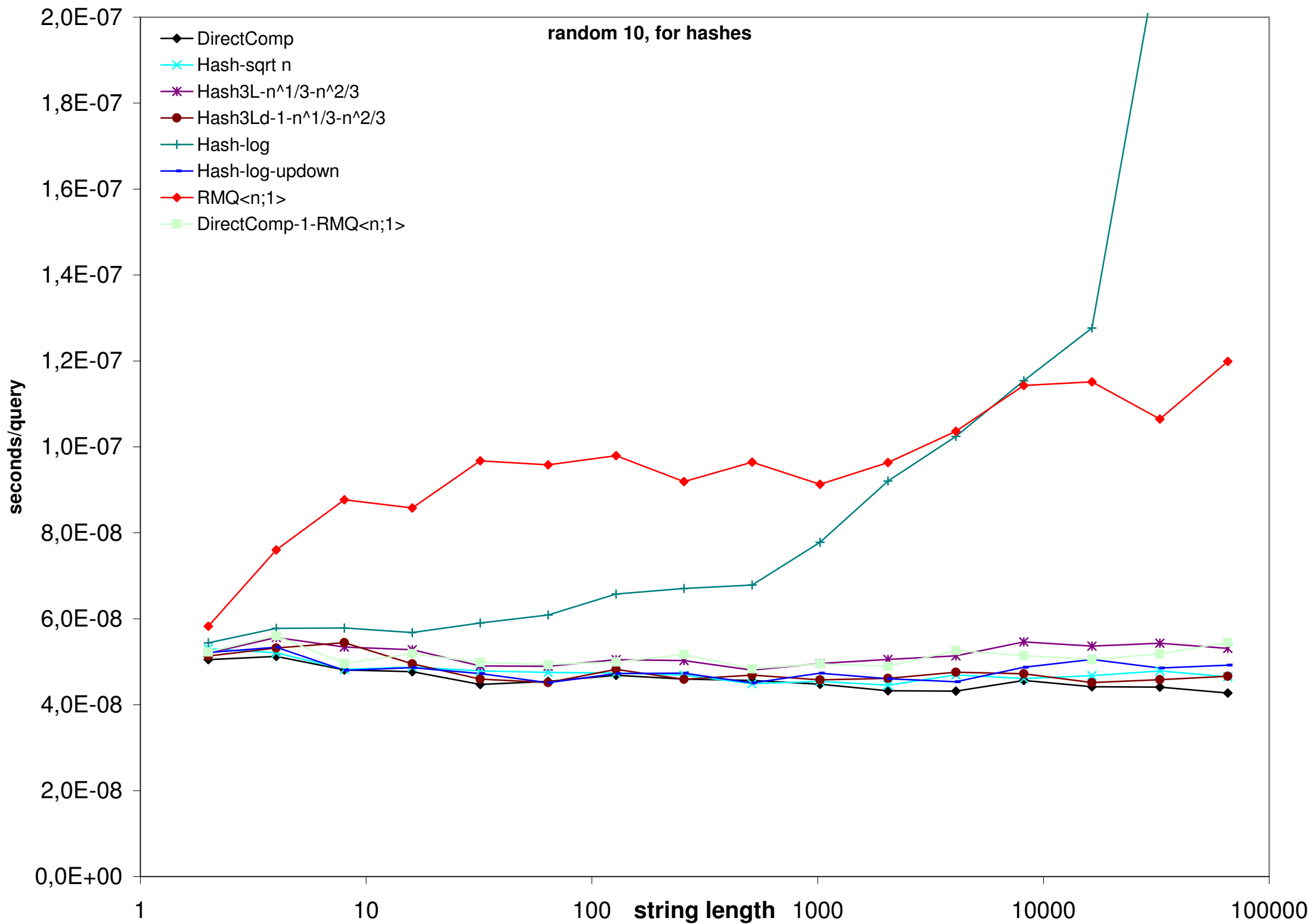


random a=10 n=1000



all a n=1000





correct

Random-10	DirectCom	DirectLook	DirectCom	Hash-sqrt	r	Hash3L-n^	Hash3Ld-1	Hash-log	Hash-log-u
2	5,05E-08	5,29E-08	5,54E-08	5,30E-08	5,20E-08	5,13E-08	5,44E-08	5,21E-08	
4	5,12E-08	5,35E-08	5,72E-08	5,21E-08	5,56E-08	5,32E-08	5,78E-08	5,34E-08	
8	4,81E-08	5,33E-08	5,63E-08	4,82E-08	5,34E-08	5,44E-08	5,78E-08	4,80E-08	
16	4,77E-08	5,20E-08	5,68E-08	4,88E-08	5,28E-08	4,95E-08	5,68E-08	4,86E-08	
32	4,47E-08	5,03E-08	5,61E-08	4,79E-08	4,90E-08	4,60E-08	5,90E-08	4,73E-08	
64	4,54E-08	5,12E-08	5,63E-08	4,75E-08	4,89E-08	4,52E-08	6,09E-08	4,51E-08	
128	4,68E-08	5,21E-08	5,54E-08	4,74E-08	5,05E-08	4,82E-08	6,58E-08	4,73E-08	
256	4,59E-08	5,28E-08	5,51E-08	4,69E-08	5,03E-08	4,59E-08	6,71E-08	4,73E-08	
512	4,57E-08	5,08E-08	5,52E-08	4,49E-08	4,81E-08	4,69E-08	6,79E-08	4,51E-08	
1024	4,48E-08	6,20E-08	5,47E-08	4,54E-08	4,96E-08	4,58E-08	7,78E-08	4,74E-08	
2048	4,33E-08	1,15E-07	5,49E-08	4,45E-08	5,06E-08	4,61E-08	9,21E-08	4,61E-08	
4096	4,31E-08	1,41E-07	5,49E-08	4,70E-08	5,14E-08	4,76E-08	1,02E-07	4,53E-08	
8192	4,57E-08	1,54E-07	5,23E-08	4,61E-08	5,46E-08	4,72E-08	1,15E-07	4,87E-08	
16384	4,42E-08	1,84E-07	5,37E-08	4,68E-08	5,36E-08	4,51E-08	1,28E-07	5,05E-08	
32768	4,41E-08		5,23E-08	4,79E-08	5,43E-08	4,58E-08	2,17E-07	4,86E-08	
65536	4,27E-08		5,41E-08	4,65E-08	5,31E-08	4,66E-08	3,23E-07	4,92E-08	

All 'a' string	DirectCom	DirectLook	DirectCom	Hash-sqrt	r	Hash3L-n^	Hash3Ld-1	Hash-log	Hash-log-u
2	5,10E-08	5,12E-08	5,39E-08	5,18E-08	5,33E-08	5,47E-08	5,30E-08	5,40E-08	
4	5,83E-08	5,31E-08	6,31E-08	6,00E-08	6,21E-08	6,51E-08	6,28E-08	5,98E-08	
8	6,56E-08	5,16E-08	6,86E-08	6,67E-08	7,02E-08	7,26E-08	7,25E-08	7,06E-08	
16	7,05E-08	5,03E-08	7,65E-08	7,27E-08	7,82E-08	8,30E-08	7,82E-08	7,73E-08	
32	7,40E-08	4,99E-08	7,75E-08	7,90E-08	8,46E-08	8,95E-08	8,34E-08	8,56E-08	
64	7,96E-08	4,97E-08	7,68E-08	8,28E-08	8,89E-08	9,81E-08	9,09E-08	9,38E-08	
128	9,90E-08	4,98E-08	7,79E-08	8,78E-08	9,58E-08	1,08E-07	1,00E-07	1,06E-07	
256	1,32E-07	5,05E-08	7,85E-08	9,38E-08	1,01E-07	1,13E-07	1,10E-07	1,15E-07	
512	1,98E-07	5,07E-08	7,70E-08	1,01E-07	1,06E-07	1,18E-07	1,19E-07	1,26E-07	
1024	3,37E-07	6,27E-08	7,71E-08	1,11E-07	1,13E-07	1,27E-07	1,40E-07	1,44E-07	
2048		1,18E-07	7,83E-08	1,25E-07	1,22E-07	1,42E-07	1,65E-07	1,84E-07	
4096		1,45E-07	8,71E-08	1,46E-07	1,33E-07	1,52E-07	1,81E-07	2,08E-07	
8192		1,54E-07	1,51E-07	1,82E-07	1,56E-07	1,75E-07	1,90E-07	2,30E-07	
16384		1,83E-07	1,79E-07	3,10E-07	1,82E-07	2,01E-07	2,13E-07	2,56E-07	
32768			1,79E-07		2,12E-07	2,29E-07	2,75E-07	3,33E-07	
65536			1,83E-07		3,02E-07	3,31E-07	5,91E-07		

Random-10	RMQ<1;n>	RMQ<n;1>	RMQ<n;2>	RMQ<n;4>	RMQ<succ	RMQ<n;(2)>	RMQ<n;(4)>	RMQ<optin
2	5,70E-08	6,27E-08	5,73E-08	5,72E-08	5,59E-08	6,02E-08	5,97E-08	
4	6,47E-08	7,36E-08	7,15E-08	7,04E-08	6,67E-08	7,25E-08	7,17E-08	
8	7,44E-08	8,90E-08	8,70E-08	8,51E-08	7,28E-08	8,92E-08	8,45E-08	
16	8,48E-08	9,57E-08	1,04E-07	8,91E-08	8,50E-08	1,01E-07	9,12E-08	
32	1,00E-07	1,00E-07	1,15E-07	1,07E-07	1,02E-07	1,12E-07	1,07E-07	
64	1,23E-07	1,02E-07	1,20E-07	1,10E-07	1,25E-07	1,15E-07	1,10E-07	
128	1,67E-07	1,03E-07	1,26E-07	1,09E-07	1,25E-07	1,22E-07	1,08E-07	
256	2,57E-07	1,02E-07	1,25E-07	1,09E-07	1,30E-07	1,24E-07	1,10E-07	
512	4,15E-07	1,01E-07	1,30E-07	1,17E-07	1,42E-07	1,25E-07	1,15E-07	
1024		1,04E-07	1,29E-07	1,16E-07	1,64E-07	1,23E-07	1,13E-07	
2048		1,05E-07	1,33E-07	1,22E-07	1,78E-07	1,28E-07	1,21E-07	
4096		1,14E-07	1,42E-07	1,27E-07	1,89E-07	1,35E-07	1,23E-07	
8192		1,17E-07	1,49E-07	1,35E-07	2,00E-07	1,43E-07	1,31E-07	
16384		1,14E-07	1,49E-07	1,36E-07	2,08E-07	1,42E-07	1,30E-07	
32768		1,15E-07	1,54E-07	1,38E-07	2,11E-07	1,45E-07	1,32E-07	
65536		1,17E-07	1,57E-07	1,37E-07	2,17E-07	1,48E-07	1,34E-07	

All 'a' string RMQ<1;n> RMQ<n;1> RMQ<n;2lc RMQ<n;4lc RMQ<succ RMQ<n;(2) RMQ<n;(4) RMQ<optin

2	5,58E-08	6,01E-08	5,69E-08	5,72E-08	5,74E-08	5,81E-08	5,85E-08
4	6,48E-08	7,25E-08	7,18E-08	7,14E-08	6,59E-08	7,54E-08	7,15E-08
8	6,99E-08	8,14E-08	8,73E-08	7,89E-08	7,09E-08	8,62E-08	8,14E-08
16	7,80E-08	8,27E-08	1,01E-07	8,13E-08	7,86E-08	9,51E-08	8,28E-08
32	9,14E-08	8,61E-08	1,06E-07	9,65E-08	9,26E-08	1,04E-07	9,95E-08
64	1,13E-07	8,58E-08	1,05E-07	9,63E-08	1,16E-07	1,09E-07	9,77E-08
128	1,55E-07	8,53E-08	1,09E-07	9,66E-08	1,15E-07	1,08E-07	9,62E-08
256	2,36E-07	8,80E-08	1,10E-07	9,71E-08	1,21E-07	1,08E-07	9,67E-08
512	4,05E-07	8,70E-08	1,12E-07	1,07E-07	1,30E-07	1,12E-07	1,03E-07
1024		8,69E-08	1,13E-07	1,05E-07	1,48E-07	1,09E-07	1,04E-07
2048		9,51E-08	1,16E-07	1,11E-07	1,58E-07	1,17E-07	1,15E-07
4096		1,05E-07	1,28E-07	1,21E-07	1,64E-07	1,26E-07	1,24E-07
8192		1,09E-07	1,34E-07	1,26E-07	1,77E-07	1,33E-07	1,24E-07
16384		1,11E-07	1,36E-07	1,28E-07	1,78E-07	1,39E-07	1,30E-07
32768		1,11E-07	1,42E-07	1,31E-07	1,82E-07	1,37E-07	1,29E-07
65536		1,11E-07	1,39E-07	1,29E-07	1,82E-07	1,39E-07	1,28E-07

Space usage DirectCom DirectLook DirectCom Hash-sqrt r Hash3L-n^ Hash3Ld-1 Hash-log Hash-log-u

2	4,00E+00	3,20E+01	4,00E+01	3,60E+01	6,00E+01	6,80E+01	44	44
4	4,00E+00	8,00E+01	4,80E+01	4,40E+01	7,60E+01	8,40E+01	80	80
8	4,00E+00	2,72E+02	6,40E+01	6,00E+01	1,08E+02	1,16E+02	164	164
16	4,00E+00	1,04E+03	1,60E+02	9,20E+01	1,72E+02	1,80E+02	360	360
32	4,00E+00	4,11E+03	4,16E+02	1,56E+02	3,00E+02	3,08E+02	812	812
64	4,00E+00	1,64E+04	1,31E+03	2,84E+02	5,56E+02	5,64E+02	1840	1840
128	4,00E+00	6,56E+04	4,64E+03	5,40E+02	1,07E+03	1,08E+03	4148	4148
256	4,00E+00	2,62E+05	1,74E+04	1,05E+03	2,09E+03	2,10E+03	9272	9272
512	4,00E+00	1,05E+06	6,76E+04	2,08E+03	4,14E+03	4,15E+03	20540	20540
1024	4,00E+00	4,19E+06	2,66E+05	4,12E+03	8,24E+03	8,24E+03	45120	45120
2048	4	1,68E+07	1,06E+06	8,22E+03	1,64E+04	1,64E+04	98372	98372
4096	4	6,71E+07	4,21E+06	1,64E+04	3,28E+04	3,28E+04	213064	213064
8192	4	2,68E+08	1,68E+07	3,28E+04	6,56E+04	6,56E+04	458828	458828
16384	4	1,07E+09	67174432	6,56E+04	1,31E+05	1,31E+05	983120	983120
32768	4	4,29E+09	2,69E+08	1,31E+05	2,62E+05	2,62E+05	2097236	2097236
65536	4	1,72E+10	1,07E+09	262172	524332	524340	4456536	4456536

Random-10 DirectCom Hash-10 Hash-20 Hash-100 Hash-1/2sc Hash-sqrt r Hash-2sqrt Hash-In n

2	5,07E-08	5,18E-08	5,10E-08	5,13E-08	5,16E-08	5,15E-08	5,09E-08	5,07E-08
4	4,70E-08	4,80E-08	4,80E-08	4,95E-08	4,86E-08	4,96E-08	4,81E-08	4,89E-08
8	4,73E-08	4,79E-08	4,81E-08	4,80E-08	4,54E-08	4,78E-08	4,78E-08	4,82E-08
16	4,65E-08	4,82E-08	4,81E-08	4,81E-08	4,80E-08	4,80E-08	4,89E-08	4,81E-08
32	4,52E-08	4,65E-08	4,88E-08	4,83E-08	4,87E-08	4,75E-08	4,88E-08	4,81E-08
64	4,51E-08	4,52E-08	4,62E-08	4,63E-08	4,57E-08	4,50E-08	4,50E-08	4,56E-08
128	4,68E-08	4,71E-08	4,56E-08	4,60E-08	4,72E-08	4,56E-08	4,60E-08	4,64E-08
256	4,55E-08	4,55E-08	4,57E-08	4,55E-08	4,60E-08	4,52E-08	4,51E-08	4,58E-08
512	4,50E-08	4,68E-08	4,62E-08	4,80E-08	4,58E-08	4,67E-08	4,50E-08	4,53E-08
1024	4,51E-08	4,66E-08	4,65E-08	4,58E-08	4,45E-08	4,61E-08	4,73E-08	4,67E-08
2048	4,54E-08	4,52E-08	4,58E-08	4,55E-08	4,62E-08	4,52E-08	4,62E-08	4,72E-08
4096	4,51E-08	4,49E-08	4,77E-08	4,71E-08	4,71E-08	4,69E-08	4,66E-08	4,63E-08
8192	4,54E-08	4,76E-08	4,69E-08	4,79E-08	4,85E-08	4,78E-08	4,78E-08	4,82E-08
16384	4,56E-08	4,89E-08	4,80E-08	4,72E-08	4,73E-08	4,98E-08	4,70E-08	4,81E-08
32768	4,50E-08	4,87E-08	4,83E-08	4,84E-08	4,94E-08	4,96E-08	4,97E-08	4,92E-08
65536	4,50E-08	4,93E-08	4,93E-08	4,95E-08	4,95E-08	4,92E-08	4,86E-08	4,90E-08

All 'a' string DirectCom Hash-10 Hash-20 Hash-100 Hash-1/2sc Hash-sqrt r Hash-2sqrt Hash-In n

2	5,27E-08	5,39E-08	5,24E-08	5,31E-08	5,41E-08	5,42E-08	5,33E-08	5,30E-08
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4	5,79E-08	5,93E-08	5,96E-08	6,11E-08	6,28E-08	6,04E-08	6,03E-08	6,19E-08
8	6,75E-08	6,58E-08	6,62E-08	6,47E-08	7,06E-08	6,88E-08	6,46E-08	6,62E-08
16	6,97E-08	7,21E-08	7,04E-08	7,05E-08	7,62E-08	7,59E-08	7,26E-08	7,43E-08
32	7,44E-08	8,04E-08	7,82E-08	7,53E-08	8,41E-08	8,09E-08	7,63E-08	8,16E-08
64	8,60E-08	8,48E-08	8,33E-08	8,42E-08	8,85E-08	8,52E-08	8,30E-08	8,68E-08
128	1,02E-07	8,98E-08	8,87E-08	9,84E-08	9,68E-08	9,17E-08	8,89E-08	9,96E-08
256	1,34E-07	1,00E-07	9,55E-08	1,09E-07	1,01E-07	9,95E-08	9,50E-08	1,13E-07
512	2,01E-07	1,16E-07	1,02E-07	1,15E-07	1,15E-07	1,03E-07	1,06E-07	1,43E-07
1024	3,47E-07	1,56E-07	1,23E-07	1,24E-07	1,33E-07	1,15E-07	1,17E-07	2,02E-07
2048		2,31E-07	1,63E-07	1,36E-07	1,58E-07	1,28E-07	1,29E-07	2,98E-07
4096		3,87E-07	2,40E-07	1,48E-07	1,80E-07	1,47E-07	1,56E-07	4,74E-07
8192			4,17E-07	1,86E-07	2,38E-07	1,85E-07	1,87E-07	
16384				2,85E-07	4,20E-07	2,97E-07	2,71E-07	
32768				5,50E-07		3,93E-07	3,46E-07	
65536								

Random-1(DirectCom| DirectCom| DirectCom| DirectCom| DirectCom| DirectCompLookup-2sqrt n

2	5,21E-08	5,34E-08	5,41E-08	5,54E-08	5,67E-08	5,48E-08
4	5,06E-08	5,97E-08	5,93E-08	5,93E-08	5,85E-08	5,77E-08
8	4,79E-08	5,57E-08	5,76E-08	5,82E-08	5,60E-08	5,72E-08
16	4,73E-08	5,59E-08	5,64E-08	5,63E-08	5,65E-08	5,53E-08
32	4,44E-08	5,30E-08	5,57E-08	5,41E-08	5,52E-08	5,30E-08
64	4,62E-08	5,60E-08	5,44E-08	5,37E-08	5,57E-08	5,36E-08
128	4,53E-08	5,58E-08	5,50E-08	5,26E-08	5,26E-08	5,42E-08
256	4,58E-08	5,52E-08	5,54E-08	5,65E-08	5,55E-08	5,53E-08
512	4,47E-08	5,38E-08	5,57E-08	5,47E-08	5,39E-08	5,58E-08
1024	4,63E-08	5,63E-08	5,49E-08	5,66E-08	5,48E-08	5,53E-08
2048	4,56E-08	5,53E-08	5,42E-08	5,48E-08	5,46E-08	5,28E-08
4096	4,31E-08	5,32E-08	5,25E-08	5,25E-08	5,35E-08	5,27E-08
8192	4,34E-08	5,54E-08	5,34E-08	5,22E-08	5,48E-08	5,25E-08
16384	4,32E-08	5,30E-08	5,18E-08	5,22E-08	5,37E-08	5,17E-08
32768	4,25E-08	5,20E-08	5,40E-08	5,23E-08	5,07E-08	5,09E-08
65536	4,30E-08	5,31E-08	5,21E-08	5,09E-08	5,07E-08	5,35E-08

All 'a' string DirectCom| DirectCom| DirectCom| DirectCom| DirectCom| DirectCompLookup-2sqrt n

2	5,25E-08	5,47E-08	5,50E-08	5,58E-08	5,71E-08	5,60E-08
4	6,10E-08	6,39E-08	6,46E-08	6,23E-08	6,35E-08	6,54E-08
8	6,85E-08	7,15E-08	7,13E-08	7,09E-08	6,36E-08	7,09E-08
16	7,31E-08	7,86E-08	7,82E-08	7,78E-08	6,98E-08	7,25E-08
32	7,29E-08	7,85E-08	8,47E-08	8,44E-08	7,20E-08	7,62E-08
64	8,17E-08	7,68E-08	9,19E-08	1,07E-07	7,23E-08	7,73E-08
128	9,76E-08	7,94E-08	9,14E-08	1,52E-07	7,86E-08	9,06E-08
256	1,35E-07	8,03E-08	9,41E-08	1,72E-07	7,87E-08	9,24E-08
512	2,05E-07	8,01E-08	9,11E-08	1,85E-07	9,27E-08	1,24E-07
1024	3,53E-07	7,99E-08	9,47E-08	1,94E-07	9,46E-08	1,26E-07
2048		8,23E-08	9,58E-08	1,92E-07	1,24E-07	1,93E-07
4096		8,71E-08	9,40E-08	1,93E-07	1,23E-07	1,91E-07
8192		1,46E-07	1,29E-07	2,00E-07	2,01E-07	3,44E-07
16384		1,67E-07	1,72E-07	2,33E-07	2,32E-07	
32768		1,79E-07	1,90E-07	2,78E-07	4,20E-07	
65536		1,82E-07	1,88E-07	2,77E-07		

Random-1(2	4	8	16	32	64	128	256
DirectCom	1,56E-08	1,66E-08	1,59E-08	1,30E-08	1,49E-08	1,53E-08	1,02E-08	1,06E-08
DirectLook	1,53E-08	1,60E-08	1,57E-08	1,55E-08	1,58E-08	1,60E-08	1,52E-08	1,69E-08
DirectCom	2,03E-08	2,01E-08	1,86E-08	1,58E-08	1,77E-08	1,69E-08	1,08E-08	1,12E-08

Hash-sqrt r	1,92E-08	1,97E-08	1,88E-08	1,71E-08	1,82E-08	1,81E-08	1,33E-08	1,40E-08
Hash3L-n^	2,27E-08	2,34E-08	2,28E-08	2,05E-08	2,22E-08	2,23E-08	1,77E-08	1,82E-08
Hash3Ld-1	2,92E-08	2,97E-08	2,89E-08	2,58E-08	2,59E-08	2,35E-08	1,44E-08	1,48E-08
Hash-log	6,09E-08	6,04E-08	5,49E-08	4,69E-08	4,67E-08	4,36E-08	3,84E-08	3,89E-08
Hash-log-u	2,43E-08	2,41E-08	2,29E-08	1,97E-08	2,07E-08	2,00E-08	1,36E-08	1,39E-08
RMQ<1;n>	2,25E-08	2,83E-08	3,74E-08	5,58E-08	7,60E-08	1,14E-07	1,71E-07	2,79E-07
RMQ<n;1>	4,00E-08	4,52E-08	5,63E-08	6,71E-08	6,36E-08	6,31E-08	6,36E-08	6,07E-08
DirectCom	4,03E-08	4,52E-08	5,39E-08	6,16E-08	5,23E-08	3,63E-08	1,15E-08	1,19E-08

All 'a' n=10	2,00E+00	4,00E+00	8,00E+00	1,60E+01	3,20E+01	6,40E+01	1,28E+02	2,56E+02
DirectCom	4,41E-07	4,39E-07	4,38E-07	4,34E-07	4,27E-07	4,14E-07	3,89E-07	3,36E-07
DirectLook	2,08E-08	1,38E-08	1,43E-08	1,57E-08	1,88E-08	2,10E-08	2,21E-08	2,08E-08
DirectCom	5,95E-08	3,69E-08	3,71E-08	3,70E-08	3,69E-08	3,72E-08	3,72E-08	3,78E-08
Hash-sqrt r	7,61E-08	7,58E-08	7,54E-08	7,56E-08	7,51E-08	7,40E-08	7,27E-08	6,89E-08
Hash3L-n^	7,95E-08	7,90E-08	7,88E-08	7,87E-08	7,84E-08	7,78E-08	7,62E-08	7,42E-08
Hash3Ld-1	9,43E-08	9,38E-08	9,39E-08	9,34E-08	1,09E-07	9,26E-08	9,09E-08	8,90E-08
Hash-log	9,03E-08	9,06E-08	9,00E-08	9,08E-08	9,00E-08	9,10E-08	9,12E-08	8,97E-08
Hash-log-u	1,14E-07	1,13E-07	1,14E-07	1,13E-07	1,14E-07	1,13E-07	1,11E-07	1,08E-07
RMQ<1;n>	1,22E-08	1,49E-08	1,88E-08	2,71E-08	4,71E-08	8,72E-08	1,28E-07	2,36E-07
RMQ<n;1>	3,42E-08	3,52E-08	4,36E-08	4,90E-08	4,88E-08	4,88E-08	4,98E-08	5,04E-08
DirectCom	3,56E-08	3,63E-08	4,42E-08	5,09E-08	5,10E-08	5,12E-08	5,13E-08	5,20E-08

Random-4	DirectCom	DirectLook	DirectCom	Hash-sqrt r	Hash3L-n^	Hash3Ld-1	Hash-log	Hash-log-u
2	5,05E-08	5,34E-08	5,47E-08	5,32E-08	5,33E-08	5,60E-08	5,22E-08	5,28E-08
4	5,50E-08	5,26E-08	5,99E-08	5,30E-08	5,64E-08	5,59E-08	5,79E-08	5,61E-08
8	4,79E-08	5,14E-08	5,70E-08	4,90E-08	5,21E-08	4,96E-08	5,77E-08	5,19E-08
16	4,88E-08	5,00E-08	5,88E-08	5,04E-08	5,22E-08	5,17E-08	5,96E-08	5,31E-08
32	4,98E-08	4,94E-08	5,85E-08	5,12E-08	5,46E-08	5,21E-08	6,13E-08	5,12E-08
64	5,14E-08	5,16E-08	5,86E-08	4,99E-08	5,40E-08	5,13E-08	6,29E-08	4,98E-08
128	4,97E-08	5,10E-08	5,75E-08	5,06E-08	5,46E-08	5,40E-08	6,67E-08	5,12E-08
256	4,93E-08	5,10E-08	5,76E-08	4,99E-08	5,34E-08	5,12E-08	7,02E-08	5,07E-08
512	4,91E-08	5,17E-08	5,71E-08	4,98E-08	5,38E-08	5,12E-08	7,15E-08	5,02E-08
1024	4,91E-08	6,42E-08	5,77E-08	4,97E-08	5,47E-08	5,11E-08	8,09E-08	5,03E-08
2048	4,89E-08	1,19E-07	5,79E-08	5,00E-08	5,34E-08	5,13E-08	9,32E-08	5,04E-08
4096	4,95E-08	1,41E-07	5,78E-08	4,98E-08	5,42E-08	5,12E-08	1,03E-07	5,09E-08
8192	4,97E-08	1,54E-07	5,81E-08	5,23E-08	5,62E-08	5,08E-08	1,15E-07	5,27E-08
16384	4,76E-08	1,82E-07	5,79E-08	5,30E-08	5,76E-08	5,09E-08	1,27E-07	5,45E-08
32768	4,97E-08		5,84E-08	5,14E-08	5,74E-08	5,16E-08	2,10E-07	5,63E-08
65536	4,74E-08		6,05E-08	5,14E-08	5,73E-08	5,09E-08	3,53E-07	5,89E-08

Random-2!	DirectCom	DirectLook	DirectCom	Hash-sqrt r	Hash3L-n^	Hash3Ld-1	Hash-log	Hash-log-u
2	5,07E-08	5,13E-08	5,33E-08	5,09E-08	5,22E-08	5,01E-08	5,38E-08	5,23E-08
4	4,71E-08	5,27E-08	5,35E-08	4,78E-08	5,03E-08	4,74E-08	5,33E-08	4,69E-08
8	4,41E-08	5,14E-08	5,18E-08	4,49E-08	4,79E-08	4,49E-08	5,30E-08	4,44E-08
16	4,32E-08	4,97E-08	5,12E-08	4,41E-08	4,74E-08	4,48E-08	5,53E-08	4,36E-08
32	4,17E-08	5,03E-08	5,09E-08	4,36E-08	4,76E-08	4,27E-08	5,71E-08	4,32E-08
64	4,27E-08	4,92E-08	5,09E-08	4,35E-08	4,70E-08	4,28E-08	5,83E-08	4,32E-08
128	4,19E-08	5,02E-08	5,08E-08	4,31E-08	4,67E-08	4,28E-08	6,10E-08	4,24E-08
256	4,20E-08	5,05E-08	5,12E-08	4,24E-08	4,72E-08	4,27E-08	6,23E-08	4,23E-08
512	4,14E-08	5,16E-08	5,09E-08	4,22E-08	4,64E-08	4,24E-08	6,53E-08	4,27E-08
1024	4,16E-08	6,47E-08	5,12E-08	4,25E-08	4,72E-08	4,32E-08	7,40E-08	4,29E-08
2048	4,10E-08	1,18E-07	5,03E-08	4,22E-08	4,77E-08	4,34E-08	8,59E-08	4,21E-08
4096	4,10E-08	1,42E-07	5,20E-08	4,34E-08	4,92E-08	4,38E-08	9,60E-08	4,38E-08
8192	4,05E-08	1,53E-07	5,05E-08	4,38E-08	5,00E-08	4,52E-08	1,10E-07	4,23E-08
16384	4,09E-08	1,81E-07	5,19E-08	4,70E-08	5,36E-08	4,37E-08	1,25E-07	4,36E-08
32768	4,06E-08		4,84E-08	4,66E-08	5,28E-08	4,08E-08	2,09E-07	4,45E-08

65536	4,11E-08	5,07E-08	4,65E-08	5,14E-08	4,07E-08	3,79E-07	4,54E-08
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The end

RMQ<1;n> RMQ<n;1> DirectComp-1-RMQ<n;1>

5,77E-08	5,82E-08	5,23E-08
6,76E-08	7,60E-08	5,61E-08
7,13E-08	8,77E-08	4,96E-08
7,90E-08	8,58E-08	5,19E-08
8,64E-08	9,68E-08	4,99E-08
9,51E-08	9,58E-08	4,93E-08
1,23E-07	9,80E-08	4,99E-08
1,66E-07	9,19E-08	5,17E-08
2,35E-07	9,65E-08	4,84E-08
3,88E-07	9,13E-08	4,95E-08
	9,63E-08	4,89E-08
	1,04E-07	5,26E-08
	1,14E-07	5,14E-08
	1,15E-07	5,06E-08
	1,07E-07	5,18E-08
	1,20E-07	5,45E-08

RMQ<1;n> RMQ<n;1> DirectComp-1-RMQ<n;1>

5,66E-08	5,83E-08	5,86E-08
6,35E-08	6,96E-08	6,99E-08
6,91E-08	7,88E-08	7,93E-08
7,30E-08	7,95E-08	8,12E-08
7,58E-08	8,33E-08	8,30E-08
8,47E-08	8,32E-08	8,37E-08
1,04E-07	8,22E-08	8,45E-08
1,37E-07	8,25E-08	8,40E-08
2,06E-07	8,25E-08	8,39E-08
3,42E-07	8,52E-08	8,76E-08
	9,16E-08	9,27E-08
	1,02E-07	1,02E-07
	1,04E-07	1,05E-07
	1,11E-07	1,07E-07
	1,04E-07	1,05E-07
	1,06E-07	1,06E-07

nal> virtual

nal> virtual

RMQ<1;n> RMQ<n;1> DirectComp-1-RMQ<n;1>

16	112	112
32	172	172
64	304	304
128	596	596
256	748	748
512	1520	1520
1024	3188	3188
2048	6776	6776
4096	10480	10480
8192	22104	22104
16384	46672	46672
32768	98576	98576
65536	172752	172752
131072	361172	361172
262144	754392	754392
524288	1573596	1573596

512
1,24E-08
1,78E-08
1,31E-08

1,57E-08
1,97E-08
1,66E-08
4,06E-08
1,56E-08
4,95E-07
6,23E-08
1,35E-08

5,12E+02
2,29E-07
1,95E-08
3,93E-08
6,39E-08
7,12E-08
8,60E-08
8,79E-08
1,02E-07
4,51E-07
5,22E-08
5,44E-08

RMQ<1;n> RMQ<n;1> DirectComp-1-RMQ<n;1>

5,60E-08	5,88E-08	5,94E-08
6,43E-08	7,29E-08	5,78E-08
7,26E-08	8,52E-08	5,16E-08
8,18E-08	9,04E-08	5,46E-08
8,82E-08	9,41E-08	5,81E-08
1,04E-07	9,61E-08	6,05E-08
1,28E-07	9,49E-08	6,25E-08
1,70E-07	9,33E-08	6,12E-08
2,46E-07	9,33E-08	6,05E-08
3,91E-07	9,33E-08	5,98E-08
	1,03E-07	5,99E-08
	1,08E-07	6,13E-08
	1,15E-07	6,38E-08
	1,15E-07	6,99E-08
	1,10E-07	6,51E-08
	1,19E-07	6,62E-08

RMQ<1;n> RMQ<n;1> DirectComp-1-RMQ<n;1>

5,59E-08	5,65E-08	5,23E-08
6,34E-08	7,05E-08	4,80E-08
6,85E-08	7,86E-08	4,45E-08
7,33E-08	8,01E-08	4,36E-08
7,70E-08	8,27E-08	4,21E-08
8,78E-08	8,40E-08	4,18E-08
1,05E-07	8,69E-08	4,13E-08
1,43E-07	8,70E-08	4,13E-08
2,13E-07	8,97E-08	4,26E-08
3,53E-07	9,54E-08	4,12E-08
	1,02E-07	4,15E-08
	1,11E-07	4,19E-08
	1,09E-07	4,19E-08
	1,08E-07	4,09E-08
	1,13E-07	4,01E-08

1,16E-07 4,27E-08