

## Statistics – Hashing Functions

### 1) Test input – Golden Circle by Roy J Snell

Collision table:

Maxload	No of Collisions		
	hash_one	hash_two	built_in
0.5	48243	54047	47353
0.7	49963	56496	48864
0.9	52073	58991	50872

Probe table

Maxload	No of Probes		
	hash_one	hash_two	built_in
0.5	50702	433751	26009
0.7	83478	667116	48835
0.9	253344	1932403	151301

2) Test input – Switzerland by Frank Fox

Collision table:

Maxload	No of Collisions		
	hash_one	hash_two	built_in
0.5	43887	55103	42700
0.7	44840	52658	43927
0.9	46957	55146	45979

Probe table

Maxload	No of Probes		
	hash_one	hash_two	built_in
0.5	44134	842907	28267
0.7	96963	1451080	65698
0.9	219746	2422865	189262

3) Test input - words (dictionary file found on Ubuntu)

Collision table:

Maxload	No of Collisions		
	hash_one	hash_two	built_in
0.5	160107	608496	136308
0.7	187066	499154	168022
0.9	254302	580798	233747

Probe table

Maxload	No of Probes		
	hash_one	hash_two	built_in
0.5	543708	150191591	433929
0.7	1060078	22363157	908571
0.9	3743151	531796037	3515945