

/proc/cpuinfo Intel(R) Core(TM) i5-3350P CPU @ 3.10GHz
cache size: 6144 KB

```
POPCOUNT gcc -m32 popcount.c -o popcount -O <n>  
for((i=0;i<11;i++));do echo $i;./popcount;done | pr -11 -l 20 -w 80
```

Optimización -O0	0	1	2	3	4	5	6	7	8	9	10	media
popcount1(lenguaje C- for):	91614	90649	90521	91612	90810	90925	90077	89920	90792	90961	91338	90696,333
popcount2(lenguaje C- while):	41629	41578	41572	41679	41890	41782	41947	41597	41647	41667	41629	41706,556
popcount3(lenguaje ASM- cuerpo while):	13096	13131	13130	13140	13166	13169	13152	13106	13107	13235	13123	13148,444
popcount4 (l.CS:APP 3.49- group 8b):	21361	21355	21355	21395	21457	21451	21375	21367	21360	21653	21462	21418,667
popcount5 (asm SSE3- pshufb 128b):	983	983	984	983	986	985	985	983	984	988	984	984,55556
popcount6 (asm SSE4- popcount 32b):	2818	2822	2820	2819	2857	2857	2822	2822	2873	2822	2820	2834,8889
popcount7 (asm SSE4- popcount 2x32b):	1993	1995	1996	1993	1994	1994	1994	1993	1999	2031	1994	1998,7778

Optimización -O1	0	1	2	3	4	5	6	7	8	9	10	media
popcount1(lenguaje C- for):	42364	40400	38026	39613	39338	38351	37727	38315	38014	38844	38451	39040,273
popcount2(lenguaje C- while):	12753	12438	12438	12439	12437	12440	12437	12441	12441	12437	12439	12467,273
popcount3(lenguaje ASM- cuerpo while):	12476	12487	12436	12437	12437	12435	12434	16873	12471	12436	12434	12850,545
popcount4 (l.CS:APP 3.49- group 8b):	8014	8034	7980	7973	8059	8046	7974	8365	8033	8005	8055	8048,9091
popcount5 (asm SSE3- pshufb 128b):	481	481	475	481	475	475	476	492	477	478	478	479
popcount6 (asm SSE4- popcount 32b):	645	647	648	645	647	648	647	670	647	652	643	649
popcount7 (asm SSE4- popcount 2x32b):	623	619	615	624	622	619	617	643	614	618	623	621,54545

Optimización -O2	0	1	2	3	4	5	6	7	8	9	10	media
popcount1(lenguaje C- for):	37823	36221	36071	36357	36067	36069	36462	36760	35855	36089	36086	36350,909
popcount2(lenguaje C- while):	12850	12441	12441	12439	12440	12438	12438	12440	16244	12439	12491	12827,364
popcount3(lenguaje ASM- cuerpo while):	12499	12119	12121	12114	12113	12112	12120	12120	12133	12119	12201	12161
popcount4 (l.CS:APP 3.49- group 8b):	5922	5742	5741	5744	5743	5796	5770	5745	5744	5742	5804	5772,0909
popcount5 (asm SSE3- pshufb 128b):	429	415	422	416	411	416	416	413	415	414	420	417
popcount6 (asm SSE4- popcount 32b):	665	654	647	647	649	648	647	649	646	648	647	649,72727
popcount7 (asm SSE4- popcount 2x32b):	509	485	489	487	483	487	489	483	487	483	491	488,45455

POPCOUNT:	-O0	-O1	-O2
popcount1	90696,33333	39040,273	36350,909
popcount2	41706,55556	12467,273	12827,364
popcount3	13148,44444	12850,545	12161
popcount4	21418,66667	8048,9091	5772,0909
popcount5	984,5555556	479	417
popcount6	2834,888889	649	649,72727
popcount7	1998,777778	621,54545	488,45455

