

```
/proc/cpuinfo      model name : Intel(R) Core(TM) i7-3537U CPU @ 2.00GHz
                   cache size   : 4096 KB
```

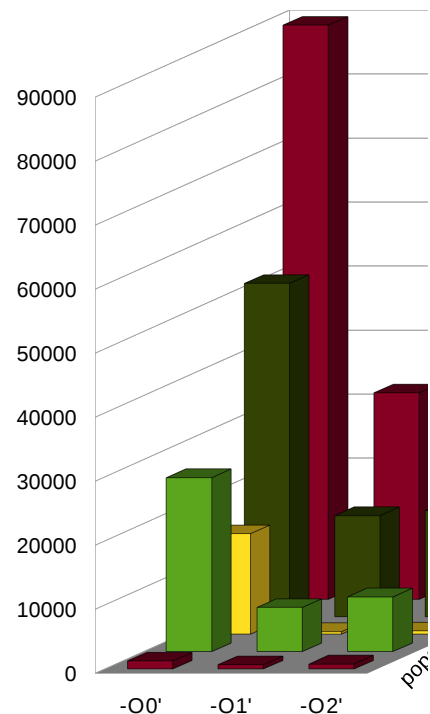
```
POPCOUNT      gcc -m32 popcount.c -o pop -O<n>
               for((i=0;i<11;i++)); do echo $i; ./pop; done | pr -11 -l 20 -w 80
               Hacemos 11 mediciones porque la primera siempre sale mal
```

<u>Optimización -O0</u>	0	1	2	3	4	5	6
popcount1	87106	85874	86969	86280	102270	87234	102510
popcount2	48827	48717	50119	48824	59624	49490	59057
popcount3	14748	14718	14733	14921	18763	14833	19025
popcount4	26348	24597	24600	24970	35229	24664	34871
popcount5	1145	1092	1078	1133	1910	1130	1864

<u>Optimización -O1</u>	0	1	2	3	4	5	6
popcount1	32451	30949	30158	30439	30041	37604	39985
popcount2	14367	14204	15591	14409	14140	21043	18362
popcount3	363	363	363	362	363	516	699
popcount4	5919	8861	5944	5920	5943	9111	9532
popcount5	541	601	549	546	535	893	1041

<u>Optimización -O2</u>	0	1	2	3	4	5	6
popcount1	36684	24407	24479	28855	24303	28610	29117
popcount2	18004	14455	16969	18333	14496	17899	17450
popcount3	650	374	382	696	362	646	514
popcount4	9488	7340	7359	9296	6588	9711	11034
popcount5	1021	684	585	944	509	930	858

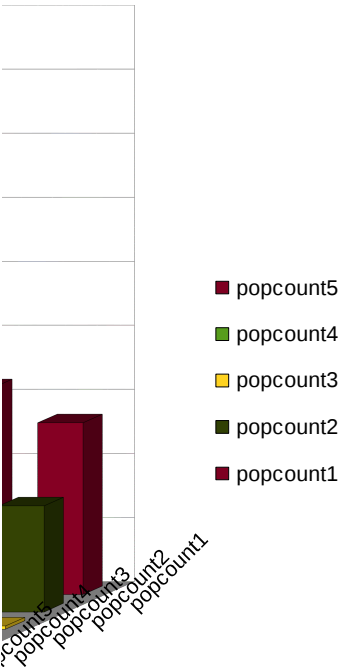
POPCOUNT	-O0'	-O1'	-O2'
popcount1	89677,2	32262,1	26803,4
popcount2	52061,9	15779,6	16561,6
popcount3	15688,9	412,8	507,3
popcount4	27157,2	6901,1	8561,9
popcount5	1260,8	652,6	776,5



7	8	9	10	Media
86654	86373	86259	86349	89677,2
51396	56133	48306	48953	52061,9
15048	14607	15581	14660	15688,9
24626	26009	25565	26441	27157,2
1097	1099	1084	1121	1260,8

7	8	9	10	Media
30594	30843	30304	31704	32262,1
14191	16211	15507	14138	15779,6
375	362	363	362	412,8
5929	6049	5878	5844	6901,1
603	553	537	668	652,6

7	8	9	10	Media
29893	25357	28586	24427	26803,4
17978	14406	17870	15760	16561,6
705	363	650	381	507,3
9389	6808	9390	8704	8561,9
938	523	902	892	776,5



PARITY gcc -m32 p  
for((i=0;i<1  
Hacemos :

Optimización -O0	0
parity1	11149
parity2	48185
parity3	46744
parity4	14913
parity5	18850
parity6	3415

Optimización -O1	0
parity1	2678
parity2	13703
parity3	13314
parity4	13036
parity5	6356
parity6	1075

Optimización -O2	0
parity1	5075
parity2	13495
parity3	13729
parity4	13234
parity5	4623
parity6	1096

PARITY	-O0'
parity1	12273,82
parity2	49368,18
parity3	49038
parity4	15131,82
parity5	19666,36
parity6	3433,091

```
parity.c -o par -O<n>
```

```
l1;i++)); do echo $i; ./par; done | pr -11 -l 20 -w 80
```

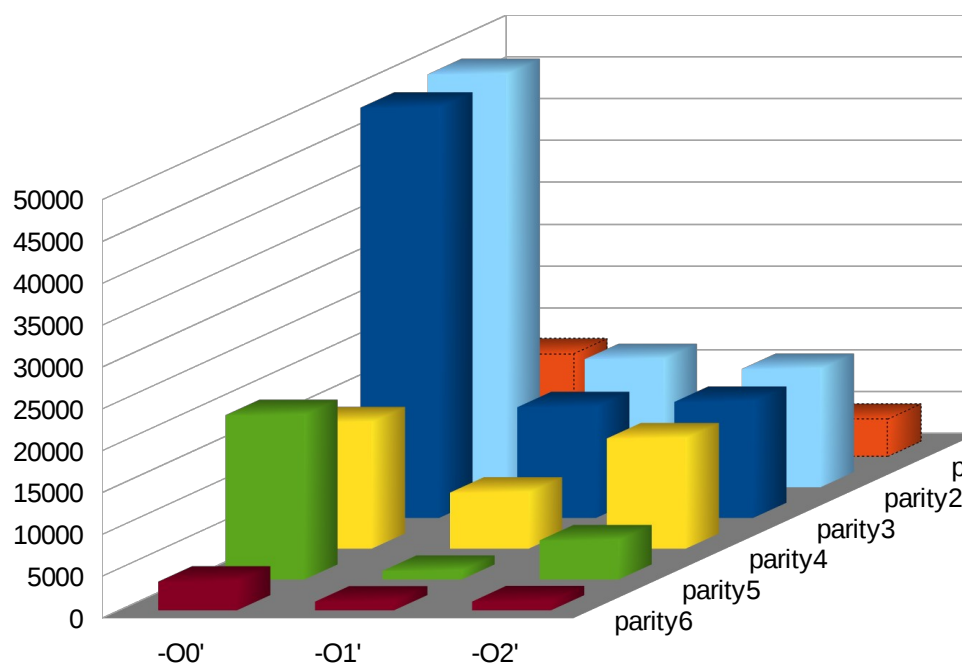
11 mediciones porque la primera siempre sale mal

1	2	3	4	5	6	7	8	9	10
11537	12199	12112	10822	10831	10979	13185	19140	10902	12156
49752	51169	49966	48034	48355	47982	49462	50649	49766	49730
50649	47669	47054	49070	46587	46633	53201	52937	48088	50786
15204	15311	15158	14989	14836	14844	15499	15391	14957	15348
21626	20073	18926	18829	19671	18915	20111	20076	19024	20229
3573	3391	3426	3399	3402	3423	3413	3435	3452	3435

1	2	3	4	5	6	7	8	9	10
4328	2665	3668	2557	3881	2645	3971	2684	3338	2652
13578	13480	15356	19883	15408	15446	15326	15418	15556	15393
13176	13160	13036	13426	13062	13389	13078	13539	13088	13560
13263	13162	13312	13465	19075	13409	13341	18415	13231	13559
6028	6042	8112	6025	6576	6047	8634	6060	8075	6071
1053	1043	1049	1081	1048	1052	1081	1103	1056	1044

1	2	3	4	5	6	7	8	9	10
2689	2653	2556	6779	2705	9386	9285	2669	2642	2693
13652	13557	13646	13536	13455	17788	15762	13626	13497	13399
13498	13436	13531	13602	13527	13536	13585	17235	13559	13590
13218	13203	13006	13224	13226	13197	13217	13205	13189	13376
4688	4653	4852	4585	4626	4623	4687	4631	4633	5006
1050	1115	1112	1064	1059	1035	1064	1046	1044	1120

-O1'	-O2'
3187,909	4466,545
15322,45	14128,45
13257,09	13893,45
6729,636	13208,64
1062,273	4691,545
1062,273	1073,182



Media
12273,81818
49368,18182
49038
15131,81818
19666,36364
3433,090909

Media
3187,909091
15322,45455
13257,09091
6729,636364
1062,272727
1062,272727

Media
4466,545455
14128,45455
13893,45455
13208,63636
4691,545455
1073,181818

