I found that `__builtin_popcount` is not usable with `-pie` option for `gcc`.

```bash
$ uname -a
DragonFly dragonfly34 3.4-RELEASE DragonFly v3.4.1-RELEASE #7: Wed Apr 24 20:11:27 PDT 2013
root@pkgbox64.dragonflybsd.org:/usr/obj/build/home/justin/src/sys/X86_64_GENERIC x86_64
$ cat tst.c
#include <stdio.h>
int main(int argc, char *argv[])
{
    printf("%d\n", __builtin_popcount(argc));
    return 0;
}
$ gcc -pie tst.c
/usr/libexec/binutils222/elf/ld.bfd: /tmp//cc2Tj2Mb.o: relocation R_X86_64_32 against `.rodata' can not be used when making a shared object; recompile with -fPIC
/tmp/cc2Tj2Mb.o: could not read symbols: Bad value
```

**History**

#1 - 05/14/2013 02:05 AM - marino
Using your program, I see the same error with:
* system gcc 4.4
* dports gcc-aux version 4.7

The latter is particularly telling because it's built with vendor makefiles. Which means it's not a compiler problem but more likely a crt* stuff problem.

#2 - 05/14/2013 02:46 AM - alexh
This is not a bug. The compiler is telling you what do to: use `-fPIC`.

#3 - 05/14/2013 02:57 AM - akr
- Status changed from New to Closed

Oops. You are right.
-`fPIC` solves the problem.

Thank you.

#4 - 05/14/2013 03:51 AM - marino
Heh, I was working under the assumption that this test worked elsewhere and I was going to test it on the latest FreeBSD. I also assumed that `-fpic` wasn't wanted because the error message was so obvious about the problem.
Closing.

#5 - 11/12/2018 11:41 PM - exercitation
- Description updated

Bug report was represent on this platform that was amazing to have all these on the formation of this programme. I need to get report on this that I got from [https://www.essayontime.co.uk](https://www.essayontime.co.uk) this was good to have all the verification to remove the bug report on it.