```
void para_par (int a[], int n) {
  int i;

for (i=0 ; i<n ; i++) {
   if [a[2] i OxOl) {
      a[1] += 1;
  }
}
---- codigo assembly obtide com gcc -S -DO ----</pre>
```

```
para_par:
                           pushl
movl
pushl
subl
                                                     tebp
tesp, tebp
tebs
54, tesp
50, -8(tebp)
                           movi
                                                    -S(%ebp), %eax
12(%ebp), %eax
.15
                            umpl
                            mp
                                                  -8(tebp), teax

0(,teax,4), tedx

8(tebp), teax

(teax,tedx), teax

51, teax

0(,teax,4), tebx

8(tebp), teax

0(,teax,4), tedx

8(tebp), teax

(teax,tedx), teax

(teax,tedx), teax

teax, (tecx,tebx)
                          movi
movi
testi
je
movi
leai
movi
leai
movi
                          movi
movi
incl
                                                   teax, (tecx, tebx)
L4:
                         leal
incl
jmp
                                                   -8(%ebp), %eax
                                                  (team)
                        addl
popl
leave
                                                  $4, tesp
```

```
código assembly obtido com gcc -S -O2 -
                                                         15 86x - THIES
para par:
                                                         400EX - 9
                          tebp
tesp, tebp
tedx, tedx
tebx
12(tebp), tebx
tebx, tedx
8(tebp), tecx
.L9
            pushl
movi
xori
pushl
movi
cmpl
movi
                                                         Hear - Miles
                                                         Morba - n
              390
                          (tecx, tedx, 4), teax
21, teax
.LA
teax
             movi
testi
                           teax, (tecx, tedx, ()] on by by
             je
incl
movi
-14:
.1.9±
             popl
leave
ret
                           Bubx
```

```
---- executável com -02 apos objdump -d ----
08048354 <para_par>:
B048354: 55
                                push tebp
                               mov tesp, tebp
8048355: 89 e5
8048357: 31 d2
B048359: 53
                                push tebx
804935a: 8b 5d 0c
                                mov Oxc (tebp), tebx
                               cmp %=bx,%=dx
mov 0x8(%ebp).%=cx
804835d:
           39 da
804835f: 8b 4d 08
                                jge 8048377
mov(tecx, tedx, 4), teax
80483621
           7d 13
8048364: 8b 04 91
8048367: a9 01 00 00 00
8048360: 74 04
                               test SOxl, Year
                               je 8048372
inc team
mov team, (tecm, tedm, 4)
inc tedm
cmp tebm, tedm
jl 8048364
pop tebm
804836er
804936f: 89 04 91
8048372: 42
B04B373: 39 da
B04B375: 7c ??
B048375:
8048377: 5b
8048378: 09
                                leave
8048379: c3
                                ret
```

```
- breakpoint em para par (executável com -02)
(gdb) info registers
oax
             0×2
             0x8049620
BCX
edx
             0×2
             Omla.
ebx
esp
             Oxbfffeha4
             OxbfffeHaB
ebp
eip
             0x8048364
(gdb) x/5wx Sesp
OmbfffeHa4:
  0x007d3ff4 0xbfffe8c8 0x080483A4 0x08049620
Oxbfffe8b4:
  0x00000014
(gdb) x/20wb Secx
0x060496201
 0x00000000 0x00000002 0x00000002 0x00000003
0x080496301
 0x00000004 0x00000005 0x000000006 0x00000007
0x08049640:
 0x08049650:
  0x0000000c 0x0000000d 0x0000000c 0x0000000f
0x080496601
  0x00000010 0x000000011 0x000000012 0x000000013
```