

## SHORT JMP vs. LONG JMP

**Dinnou:**

Mov eax, 89

.....

Jmp Maideparte ; JMP is not restricted to any “distance”

**Resd 1000h;** The distance between LOOP and the label Dinnou is > 127 bytes so it is not a short jump !

Maideparte:

Mov ebx, 17

.....

**Loop** Dinnou ; syntax error: short jump is out of range + warning: byte data exceeds bounds

Daca inlocuim Loop Dinnou cu echivalentul

dec ecx

jnz Dinnou

NU mai obtinem eroare deoarece

In TASM and MASM the short jump condition (ie maximum 127 bytes distance) is imposed both at the level of LOOP type instructions and at the level of conditional jump instructions.

In NASM the restriction is valid only for LOOP type instructions, the conditional jump instructions are no longer subject to this restriction.

Totusi, exista o diferenta importanta intre cele 2 variante: Loop NU afecteaza flag-urile, in timp ce DEC DA !!

Daca vrem o varianta echivalenta care sa NU afecteze flag-urile:

**Dinnou:**

Mov eax, 89

.....

Jmp Maideparte

**Resd 1000h;** The distance between LOOP and the label Dinnou is > 127 bytes so it is not a short jump !

MaiAproape:

Jmp Dinnou

Maideparte:

Mov ebx, 17

.....

**Loop** MaiAproape ; short jump