

String functions - Memory layout & wing there in data teransfer metr.

* String type constants does only the resonation of the required space.

The filling order of that memory over over in the order that the chor. appear

ex:

a G dd 1123 1345 abcd

31 32 33 00 33 3h 55 00 Q1 Q2 Q3 Qh

a G dd 123451

* has to be filled up to 31 32 33 34 35 00 00 00

at du 23', '45'

32 33 3h 35

In NA6M ... = "..." but in C 1... + "..."

the following def. provide the same mem. conf dd 'nine chars'
dd 'nine', char', 's'
db 'ninechars', 0, 0,0

mov eax, labed CXX = 0x GhCbG2G1

Constant Constant table only if it is in the constant table (in memory it would be stoned in rurers) abed deba 2345

mov dword [2], 2345 will be \ \ \(\D 5 : [4010000], 35 34 33 32

this is the actual 'value' of the constant to that memory the hexadecimal values associated

Short JMP and Long JMP

JMP - meonditional jup

in TASM on 16 bits you had a rushictions:

Conditional jumps

Loop label

Chort jumps

the distance must be at most 124 bytes
in NASM the condition was eliminated => No restriction for conditional
jumps

BUT for loops:

Again mov eax, 89

jup further

rusd 1000 h the distance is > 124 bytes => it is NOT short jumps

fur : mov eby, 17

loop Again; syntax error; what jump is out of range + byk data exceeds bounds

replacing loop Again with dec ecx will NOT be an error

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JMP instruction analysis NEAR and FAR jump

> jump to a 4 byte label > NEAR jump

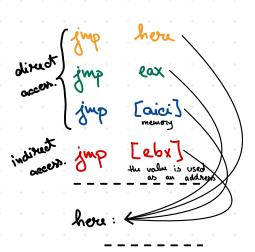
How do you do a FAR jump? With a FAR address: segment+offset => Gbyte address by you can perform a FAR jump only by using a G byte vorieble pointer

4 CS: Eip --- currently executed instruction

* a FAR jump is a legal way in which you can change the C5: Ei7 value * with a jump you change Ei7

segment data aici dd here — initilized with the offset of the lable "here" segment code

mou eax, [aici] mou ebx, aici



jmp [55: EBP + 12] is still a near jump
you must use FAR

jup far [55: ebx 1 12] is an actual for jump

96 74 52 61 e2 (5=) eip: 61 52 74 96 C5: 65 c2

* Rezervat 15 dec l'all important information * vezi în Olly: push [von] dacă ore DS: son 55: