Arhitectura sistemelor de calcul

de conversie (distructive) CBW CWD (extensie de semm) CMPE CDQ REG REGIMEM M o V 2 X d , S zvroorizore fira sum Movsxd,s zeroorizary an semm MOV an (8h AH = C80 MOVSX lbx, ah EBX = FF FF FF C8 Mov Zx lbx ch EBX = 00 00 00 C8 V dim didusă din ax MOV SX ax [V] portar una gradian siza MOV ZX Jax [V] not specified, 2 pos. W/D ear, word/byte CV3 Mousx MOVSX Jax, dword CV) menter woon size-wi igali nou bh 1 ax, bh 00 01 M ov Sx

Duplasani de biti Instrucțiuni de depl logică Instrucțiuni de depl arit 546 Instrucțiumi de rotine fară corry Instrucțiumi de rotin ce corry ROR RCR x = abcdelgh shl x -> x = bcdelgho C7 = a CF = h Sho x -> x = oabcdelg Sal x -> x = bcdefgho CF=a son x -> x = aabcoulg CF=h-time cont de sumo nol X,1 -> x = hcdilgha CF = G x, 1 -> x = hancoulg C7 = N x,1-> x= hcdelgho CF=a CF = a to x, 1 -> x = aahcalg CF = h

Sulturi conditionale JMP opward CALL opward = salvaria adrisi de rur + gins = extragene adresia de rev + Jump la acea adrese de rev si adanga n la stiva ret [n] mou lax etich salt de dist just: July oax CMP d,s face companar fictive (sæder)
TEST d,s face and fictiv usigned

JL-jump liss

JA-jump ahour

JG-jump greater Insigned Distanta inter loop si budis top sã li <= 127
ptc arem un junp short pt loop octiti

segment data aici DD here ; Vaici primale offsetul itichiti segment code mov eax, [aici]; \ mov 10x ph 05: [aici] EAX = offsit hou mov ebx, aici; / mov is to 00401000 EAX = offset aici jmp [aici]; V sult la val. atuminat confint u variabili aici jmp here ; V salt la hun jmpeax ; Vealt la hon jmp [ebx] ; V salt la aici jmp [ebp]; V soft la incontal stime JMP DWORD SS:[EBP] mov ecx, 0ffh CS: EIP, EIP = offsit Amp aici Jup duond ph DS: [00501000] Jup [von - mem] jmp I wond pts DS: [EBX] Jmp [EBX] jung drond the SS: [EBP] Jun [EBP] jusp [55: elsx +12] ze va acelasi segment de cod adica Un salt man Medua tot in a CS: EIP sat man.

Daz Jacem ur solt for fasiem urm. instr. from [55: lbx +12] 5 inclamme & 5i CS ist populate on SS Si offset on inx +12 deci jusp [55: 16x +12] <=> mov EIP [55: 16x +12] gmg for [55: 1bx +12] <=> mov EIP dword, [55: 1bx +12] mou CS word, [SS: 105+12+4] (S: EIP[memory] -> EIP = 56 AS & 7B CS - 47 D 4 memorie: 56 44 8C 7B 47 a db 1,2,3,4 Salturi for direct un mov edx, eax segment code use32 class=code mora, doar indirecte jmp start2 - ok - salt NEAR - JMP 00403000 (offset code segment = 00402000) jmp start3 - ok - salt NEAR - **JMP 00401004 (offset data segment = 00401000)** imp far start2 - Segment selector relocations are not supported in PE file jmp far start3 - Segment selector relocations are not supported in PE file adlac a form effect push dword 0 call [exit] egment code1 use32 class=code descrice un puter direct mov eax, ebx push dword 0 pie o adrese 1 pu 32 sili call [exit] 9i la fil si un rugistru

dar folosin form effect

accesom 48 bit