

Examples - implicit rules for prefixing an offset with the corresponding segment register

Mov eax, [v] ; mov eax, DWORD PTR DS:[405000]

Mov eax, [ebx] ; mov eax, DWORD PTR DS:[ebx]

Mov eax, [ebp] ; mov eax, DWORD PTR SS:[ebp]

Mov eax, [ebp*2] ; mov eax, DWORD PTR SS:[ebp+ebp]

Mov eax, [ebp*3] ; mov eax, DWORD PTR SS:[ebp+ebp*2]

Mov eax, [ebp*4] ; mov eax, DWORD PTR DS:[ebp*4]

Mov eax, [ebx+esp] ; ESP – base... EBX – index ;EAX \leftarrow dword ptr [SS:esp+ebx]...

Mov eax, [esp + ebx] ; ESP – base... EBX – index ;EAX \leftarrow ...SS:...

Mov eax, [ebx+esp*2] ; syntax error BECAUSE ESP can be ONLY a base register !

Mov eax, [ebx+ebp*2] ; mov eax, DWORD PTR [DS:EBX+EBP*2]

Mov eax, [ebx+ebp] ; ...DS...

Mov eax, [ebp+ebx] ; ...SS...

Mov eax, [ebx*2+ebp] ; ...SS...

Mov eax, [ebx*1+ebp] ;...SS...

Mov eax, [ebp*1+ebx] ; ...DS...

Mov eax, [ebx*1+ebp*1] ; ;...SS... - the first found scaled element is taken as index
!! EBP - base

Mov eax, [ebp*1+ebx*1] ; ...DS... - the first found scaled element is taken as index
!! EBX - base

Mov eax, [ebp*1+ebx*2]; ...SS...