

Assembly

11.10.11

page 1

- No class on Tuesday before Thanksgiving

- SHL - packing data

ax = 0F 0C

shl ah, 4 ax = F0 0C

or al, ah al = FC

- SHR al = FC unpacking

mov ah, al

SHR ax, 4

SHR al, 4



- SAL
SHL } same, multiplies by 2 9x = 00 0F (15)
shl = 00 1E (30)

- mov ax, -15 ax = FFF1 (sar uses sign is kept)
sar ax, 1 ax = FF F8

- mov ax, -15
mov bl, 2
idiv bl ah = FF al, F9

- sar is going to be larger than idiv if its not equal
- shifting affects all flags