

\$ cat 08testmovb.s

```
## =====  
## 08testmovb.s  
## =====  
  
.section ".text"  
  
movb    $0, %al  
movb    $0, %ah  
movb    $0, %bl  
movb    $0, %bh  
movb    $0, %cl  
movb    $0, %ch  
movb    $0, %dl  
movb    $0, %dh  
  
movb    $1, %al  
movb    $1, %ah  
movb    $1, %bl  
movb    $1, %bh  
movb    $1, %cl  
movb    $1, %ch  
movb    $1, %dl  
movb    $1, %dh  
  
movb    $2, %al  
movb    $2, %ah  
movb    $2, %bl  
movb    $2, %bh  
movb    $2, %cl  
movb    $2, %ch  
movb    $2, %dl  
movb    $2, %dh  
  
movb    $-2, %al  
movb    $-2, %ah  
movb    $-2, %bl  
movb    $-2, %bh  
movb    $-2, %cl  
movb    $-2, %ch  
movb    $-2, %dl  
movb    $-2, %dh  
  
movb    %al, %al  
movb    %al, %ah  
movb    %al, %bl  
movb    %al, %bh  
movb    %al, %cl  
movb    %al, %ch  
movb    %al, %dl  
movb    %al, %dh  
  
movb    %al, %al  
movb    %ah, %al  
movb    %bl, %al  
movb    %bh, %al  
movb    %cl, %al  
movb    %ch, %al  
movb    %dl, %al  
movb    %dh, %al  
  
movb    %al, 0(%eax)  
movb    %al, 0(%ebx)  
movb    %al, 0(%ecx)  
movb    %al, 0(%edx)  
movb    %al, 0(%esi)  
movb    %al, 0(%edi)  
movb    %al, 0(%ebp)  
# movb  %al, 0(%esp) # Intel handles as a special case.  
# Your assembler need not handle it.
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movb    %al, 1(%eax)
movb    %al, 1(%ebx)
movb    %al, 1(%ecx)
movb    %al, 1(%edx)
movb    %al, 1(%esi)
movb    %al, 1(%edi)
movb    %al, 1(%ebp)
# movb  %al, 1(%esp) # Intel handles as a special case.
# Your assembler need not handle it.

movb    %al, 2(%eax)
movb    %al, 2(%ebx)
movb    %al, 2(%ecx)
movb    %al, 2(%edx)
movb    %al, 2(%esi)
movb    %al, 2(%edi)
movb    %al, 2(%ebp)
# movb  %al, 2(%esp) # Intel handles as a special case.
# Your assembler need not handle it.

movb    %al, -2(%eax)
movb    %al, -2(%ebx)
movb    %al, -2(%ecx)
movb    %al, -2(%edx)
movb    %al, -2(%esi)
movb    %al, -2(%edi)
movb    %al, -2(%ebp)
# movb  %al, -2(%esp) # Intel handles as a special case.
# Your assembler need not handle it.

movb    %al, 321(%eax)
movb    %al, 321(%ebx)
movb    %al, 321(%ecx)
movb    %al, 321(%edx)
movb    %al, 321(%esi)
movb    %al, 321(%edi)
movb    %al, 321(%ebp)
# movb  %al, 321(%esp) # Intel handles as a special case.
# Your assembler need not handle it.

movb    %al, 321(%eax)
movb    %ah, 321(%eax)
movb    %bl, 321(%eax)
movb    %bh, 321(%eax)
movb    %cl, 321(%eax)
movb    %ch, 321(%eax)
movb    %dl, 321(%eax)
movb    %dh, 321(%eax)

movb    0(%eax), %al
movb    0(%eax), %ah
movb    0(%eax), %bl
movb    0(%eax), %bh
movb    0(%eax), %cl
movb    0(%eax), %ch
movb    0(%eax), %dl
movb    0(%eax), %dh

movb    1(%eax), %al
movb    1(%ebx), %al
movb    1(%ecx), %al
movb    1(%edx), %al
movb    1(%esi), %al
movb    1(%edi), %al
movb    1(%ebp), %al
# movb  1(%esp), %al # Intel handles as a special case.
# Your assembler need not handle it.

movb    2(%eax), %al
movb    2(%ebx), %al
movb    2(%ecx), %al

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movb    2(%edx), %al
movb    2(%esi), %al
movb    2(%edi), %al
movb    2(%ebp), %al
# movb  2(%esp), %al # Intel handles as a special case.
# Your assembler need not handle it.

movb    -2(%eax), %al
movb    -2(%ebx), %al
movb    -2(%ecx), %al
movb    -2(%edx), %al
movb    -2(%esi), %al
movb    -2(%edi), %al
movb    -2(%ebp), %al
# movb  -2(%esp), %al # Intel handles as a special case.
# Your assembler need not handle it.

movb    321(%eax), %al
movb    321(%eax), %ah
movb    321(%eax), %bl
movb    321(%eax), %bh
movb    321(%eax), %cl
movb    321(%eax), %ch
movb    321(%eax), %dl
movb    321(%eax), %dh

movb    321(%eax), %al
movb    321(%ebx), %al
movb    321(%ecx), %al
movb    321(%edx), %al
movb    321(%esi), %al
movb    321(%edi), %al
movb    321(%ebp), %al
# movb  321(%esp), %al # Intel handles as a special case.
# Your assembler need not handle it.

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$ assembler -o 08testmovb.o 08testmovb.s
$ objdump -d 08testmovb.o

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08testmovb.o:      file format elf32-i386

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Disassembly of section .text:

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00000000 <.text>:
0:  b0 00          mov     $0x0,%al
2:  b4 00          mov     $0x0,%ah
4:  b3 00          mov     $0x0,%bl
6:  b7 00          mov     $0x0,%bh
8:  b1 00          mov     $0x0,%cl
a:  b5 00          mov     $0x0,%ch
c:  b2 00          mov     $0x0,%dl
e:  b6 00          mov     $0x0,%dh
10: b0 01          mov     $0x1,%al
12: b4 01          mov     $0x1,%ah
14: b3 01          mov     $0x1,%bl
16: b7 01          mov     $0x1,%bh
18: b1 01          mov     $0x1,%cl
1a: b5 01          mov     $0x1,%ch
1c: b2 01          mov     $0x1,%dl
1e: b6 01          mov     $0x1,%dh
20: b0 02          mov     $0x2,%al
22: b4 02          mov     $0x2,%ah
24: b3 02          mov     $0x2,%bl
26: b7 02          mov     $0x2,%bh
28: b1 02          mov     $0x2,%cl
2a: b5 02          mov     $0x2,%ch
2c: b2 02          mov     $0x2,%dl
2e: b6 02          mov     $0x2,%dh
30: b0 fe          mov     $0xfe,%al
32: b4 fe          mov     $0xfe,%ah
34: b3 fe          mov     $0xfe,%bl

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36:	b7 fe	mov	\$0xfe,%bh
38:	b1 fe	mov	\$0xfe,%cl
3a:	b5 fe	mov	\$0xfe,%ch
3c:	b2 fe	mov	\$0xfe,%dl
3e:	b6 fe	mov	\$0xfe,%dh
40:	88 c0	mov	%al,%al
42:	88 c4	mov	%al,%ah
44:	88 c3	mov	%al,%bl
46:	88 c7	mov	%al,%bh
48:	88 c1	mov	%al,%cl
4a:	88 c5	mov	%al,%ch
4c:	88 c2	mov	%al,%dl
4e:	88 c6	mov	%al,%dh
50:	88 c0	mov	%al,%al
52:	88 e0	mov	%ah,%al
54:	88 d8	mov	%bl,%al
56:	88 f8	mov	%bh,%al
58:	88 c8	mov	%cl,%al
5a:	88 e8	mov	%ch,%al
5c:	88 d0	mov	%dl,%al
5e:	88 f0	mov	%dh,%al
60:	88 80 00 00 00 00	mov	%al,0x0(%eax)
66:	88 83 00 00 00 00	mov	%al,0x0(%ebx)
6c:	88 81 00 00 00 00	mov	%al,0x0(%ecx)
72:	88 82 00 00 00 00	mov	%al,0x0(%edx)
78:	88 86 00 00 00 00	mov	%al,0x0(%esi)
7e:	88 87 00 00 00 00	mov	%al,0x0(%edi)
84:	88 85 00 00 00 00	mov	%al,0x0(%ebp)
8a:	88 80 01 00 00 00	mov	%al,0x1(%eax)
90:	88 83 01 00 00 00	mov	%al,0x1(%ebx)
96:	88 81 01 00 00 00	mov	%al,0x1(%ecx)
9c:	88 82 01 00 00 00	mov	%al,0x1(%edx)
a2:	88 86 01 00 00 00	mov	%al,0x1(%esi)
a8:	88 87 01 00 00 00	mov	%al,0x1(%edi)
ae:	88 85 01 00 00 00	mov	%al,0x1(%ebp)
b4:	88 80 02 00 00 00	mov	%al,0x2(%eax)
ba:	88 83 02 00 00 00	mov	%al,0x2(%ebx)
c0:	88 81 02 00 00 00	mov	%al,0x2(%ecx)
c6:	88 82 02 00 00 00	mov	%al,0x2(%edx)
cc:	88 86 02 00 00 00	mov	%al,0x2(%esi)
d2:	88 87 02 00 00 00	mov	%al,0x2(%edi)
d8:	88 85 02 00 00 00	mov	%al,0x2(%ebp)
de:	88 80 fe ff ff ff	mov	%al,0xffffffff(%eax)
e4:	88 83 fe ff ff ff	mov	%al,0xffffffff(%ebx)
ea:	88 81 fe ff ff ff	mov	%al,0xffffffff(%ecx)
f0:	88 82 fe ff ff ff	mov	%al,0xffffffff(%edx)
f6:	88 86 fe ff ff ff	mov	%al,0xffffffff(%esi)
fc:	88 87 fe ff ff ff	mov	%al,0xffffffff(%edi)
102:	88 85 fe ff ff ff	mov	%al,0xffffffff(%ebp)
108:	88 80 41 01 00 00	mov	%al,0x141(%eax)
10e:	88 83 41 01 00 00	mov	%al,0x141(%ebx)
114:	88 81 41 01 00 00	mov	%al,0x141(%ecx)
11a:	88 82 41 01 00 00	mov	%al,0x141(%edx)
120:	88 86 41 01 00 00	mov	%al,0x141(%esi)
126:	88 87 41 01 00 00	mov	%al,0x141(%edi)
12c:	88 85 41 01 00 00	mov	%al,0x141(%ebp)
132:	88 80 41 01 00 00	mov	%al,0x141(%eax)
138:	88 a0 41 01 00 00	mov	%ah,0x141(%eax)
13e:	88 98 41 01 00 00	mov	%bl,0x141(%eax)
144:	88 b8 41 01 00 00	mov	%bh,0x141(%eax)
14a:	88 88 41 01 00 00	mov	%cl,0x141(%eax)
150:	88 a8 41 01 00 00	mov	%ch,0x141(%eax)
156:	88 90 41 01 00 00	mov	%dl,0x141(%eax)
15c:	88 b0 41 01 00 00	mov	%dh,0x141(%eax)
162:	8a 80 00 00 00 00	mov	0x0(%eax),%al
168:	8a a0 00 00 00 00	mov	0x0(%eax),%ah
16e:	8a 98 00 00 00 00	mov	0x0(%eax),%bl
174:	8a b8 00 00 00 00	mov	0x0(%eax),%bh
17a:	8a 88 00 00 00 00	mov	0x0(%eax),%cl
180:	8a a8 00 00 00 00	mov	0x0(%eax),%ch
186:	8a 90 00 00 00 00	mov	0x0(%eax),%dl

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18c: 8a b0 00 00 00 00    mov     0x0(%eax),%dh
192: 8a 80 01 00 00 00    mov     0x1(%eax),%al
198: 8a 83 01 00 00 00    mov     0x1(%ebx),%al
19e: 8a 81 01 00 00 00    mov     0x1(%ecx),%al
1a4: 8a 82 01 00 00 00    mov     0x1(%edx),%al
1aa: 8a 86 01 00 00 00    mov     0x1(%esi),%al
1b0: 8a 87 01 00 00 00    mov     0x1(%edi),%al
1b6: 8a 85 01 00 00 00    mov     0x1(%ebp),%al
1bc: 8a 80 02 00 00 00    mov     0x2(%eax),%al
1c2: 8a 83 02 00 00 00    mov     0x2(%ebx),%al
1c8: 8a 81 02 00 00 00    mov     0x2(%ecx),%al
1ce: 8a 82 02 00 00 00    mov     0x2(%edx),%al
1d4: 8a 86 02 00 00 00    mov     0x2(%esi),%al
1da: 8a 87 02 00 00 00    mov     0x2(%edi),%al
1e0: 8a 85 02 00 00 00    mov     0x2(%ebp),%al
1e6: 8a 80 fe ff ff ff    mov     0xffffffff(%eax),%al
1ec: 8a 83 fe ff ff ff    mov     0xffffffff(%ebx),%al
1f2: 8a 81 fe ff ff ff    mov     0xffffffff(%ecx),%al
1f8: 8a 82 fe ff ff ff    mov     0xffffffff(%edx),%al
1fe: 8a 86 fe ff ff ff    mov     0xffffffff(%esi),%al
204: 8a 87 fe ff ff ff    mov     0xffffffff(%edi),%al
20a: 8a 85 fe ff ff ff    mov     0xffffffff(%ebp),%al
210: 8a 80 41 01 00 00    mov     0x141(%eax),%al
216: 8a a0 41 01 00 00    mov     0x141(%eax),%ah
21c: 8a 98 41 01 00 00    mov     0x141(%eax),%bl
222: 8a b8 41 01 00 00    mov     0x141(%eax),%bh
228: 8a 88 41 01 00 00    mov     0x141(%eax),%cl
22e: 8a a8 41 01 00 00    mov     0x141(%eax),%ch
234: 8a 90 41 01 00 00    mov     0x141(%eax),%dl
23a: 8a b0 41 01 00 00    mov     0x141(%eax),%dh
240: 8a 80 41 01 00 00    mov     0x141(%eax),%al
246: 8a 83 41 01 00 00    mov     0x141(%ebx),%al
24c: 8a 81 41 01 00 00    mov     0x141(%ecx),%al
252: 8a 82 41 01 00 00    mov     0x141(%edx),%al
258: 8a 86 41 01 00 00    mov     0x141(%esi),%al
25e: 8a 87 41 01 00 00    mov     0x141(%edi),%al
264: 8a 85 41 01 00 00    mov     0x141(%ebp),%al

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