Translations: Dynamic Relocation with Base and Bounds

Assume that a process's address space is located in one contiguous block in physical memory, and that the **bounds** register indicates the size of the AS, not the physical address of the end of the AS. The address space is 16KB in size, and physical memory is 64KB in size.

base register: bounds register:	8200 5000
	dress, rresponding physical address? physical address for this process?
1. Virtual Addr	ess 201
2. Virtual Addr	ess 11204
3. Virtual Addr	ess 6436
4. Virtual Addr	ess 1841
5. Virtual Addr	ess 2272

Translations: Segmentation

Assume that a process's address	space is located	l in two	segments.	The address	space is	16KB in	ı size,	and
physical memory is 64KB in size								

Segment 0

base register: 25000
bounds register: 4000

grows positive

Segment 1

base register: 49000 bounds register: 4500

grows negative

For each virtual address (now listed in decimal and binary),

- (1) In which segment is this virtual address located?
- (2) What is the corresponding physical address?
- (3) Is this a valid physical address for this segment?
 - 1. Virtual Address 201 (00 0000 1100 1001)

2. Virtual Address 11204 (10 1011 1100 0100)

- 3. Virtual Address 14749 (11 10001 1001 1101)
- 4. Virtual Address 1841 (00 0111 0011 0001)

5. Virtual Address 6436 (01 10010 0100 0100)