CSC 369 Worksheet 8 Solution

August 25, 2020

1. I need to translate the addresses in the following sets of parameters

   - ./segmentation.py -a 128 -p 512 -b 0 -l 20 -B 512 -L 20 -s 0
   - ./segmentation.py -a 128 -p 512 -b 0 -l 20 -B 512 -L 20 -s 1
   - ./segmentation.py -a 128 -p 512 -b 0 -l 20 -B 512 -L 20 -s 2

   The solution to the problem is:

   <u>**Notes**</u>

   - **Segmentation**
     - **Segment** is a contigous portion of the address space of a particular length
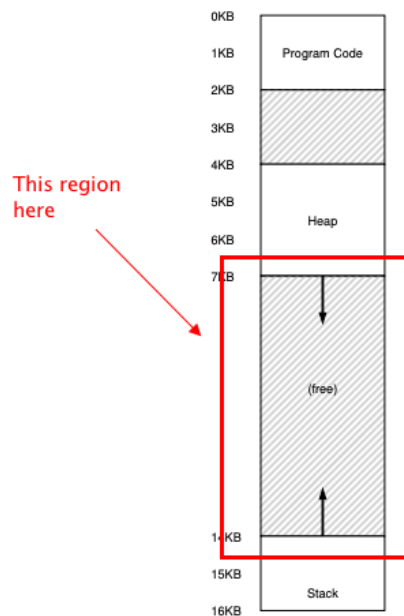   - Is about the big chunk of space in the middle

Figure 16.1: **An Address Space (Again)**

– **Segmentation** allows the OS to place each one of the logical segments (i.e. stack, heap, program code) in different parts of physical memory, and avoid filling physical memory with unused virtual address space