Parth Ray

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Lab 6 Report

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 pray@unix2: //home/pray/CPE453/Lab6
rm -rf allocator
pray@unix2:~/CPE453/Lab6 $ make allocator
gcc -Wall -g -c allocator.c
gcc -Wall -g -o allocator allocator.o
pray@unix2:~/CPE453/Lab6 $ ./allocator 1048576
allocator> stat
commands: RQ, RL, C, STAT, X
allocator> STAT
Addresses [0:1048575] Unused
allocator> RQ P0 40000 W
allocator> RQ P1 20000 F
allocator> RQ P2 30000 B
allocator> RQ P3 40000 W
allocator> RQ P4 10000 B
allocator> RQ P5 9999999 B
rq: No space in Memory. Try compacting.
allocator> STAT
Addresses [0:39999] Process P0
Addresses [40000:59999] Process P1
Addresses [60000:89999] Process P2
Addresses [90000:129999] Process P3
Addresses [130000:139999] Process P4
Addresses [140000:1048575] Unused
allocator> RL P0
allocator> STAT
Addresses [0:39999] Unused
Addresses [40000:59999] Process P1
Addresses [60000:89999] Process P2
Addresses [90000:129999] Process P3
Addresses [130000:139999] Process P4
Addresses [140000:1048575] Unused
allocator> RL P2
allocator> STAT
Addresses [0:39999] Unused
Addresses [40000:59999] Process P1
Addresses [60000:89999] Unused
Addresses [90000:129999] Process P3
Addresses [130000:139999] Process P4
Addresses [140000:1048575] Unused
allocator> RL P3
allocator> STAT
Addresses [0:39999] Unused
Addresses [40000:59999] Process P1
Addresses [60000:129999] Unused
Addresses [130000:139999] Process P4
Addresses [140000:1048575] Unused
allocator> RQ P5 10000 w
rq: takes only F, B, or W as 3rd arg
allocator> RQ P5 10000 W
allocator> STAT
Addresses [0:39999] Unused
Addresses [40000:59999] Process P1
Addresses [60000:129999] Unused
Addresses [130000:139999] Process P4
Addresses [140000:149999] Process P5
Addresses [150000:1048575] Unused
allocator> RQ P6 41000 B
allocator> STAT
Addresses [0:39999] Unused
Addresses [40000:59999] Process P1
Addresses [60000:100999] Process P6
Addresses [101000:129999] Unused
Addresses [130000:139999] Process P4
Addresses [140000:149999] Process P5
Addresses [150000:1048575] Unused
allocator> RQ P7 10000 F
allocator> STAT
Addresses [0:9999] Process P7
Addresses [10000:39999] Unused
Addresses [40000:59999] Process P1
Addresses [60000:100999] Process P6
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Addresses [101000:129999] Unused
Addresses [130000:139999] Process P4
Addresses [140000:149999] Process P5
Addresses [150000:1048575] Unused
allocator> RL P1
allocator> STAT
Addresses [0:9999] Process P7
Addresses [10000:59999] Unused
Addresses [60000:100999] Process P6
Addresses [101000:129999] Unused
Addresses [130000:139999] Process P4
Addresses [140000:149999] Process P5
Addresses [150000:1048575] Unused
allocator> RL P7
allocator> STAT
Addresses [0:59999] Unused
Addresses [60000:100999] Process P6
Addresses [101000:129999] Unused
Addresses [130000:139999] Process P4
Addresses [140000:149999] Process P5
Addresses [150000:1048575] Unused
```

```
allocator> RQ P0 40000 W
allocator> RQ P1 20000 F
allocator> RQ P2 30000 B
allocator> RQ P4 20000 B
allocator> RQ P3 10000 F
allocator> STAT
Addresses [0:39999] Process P0
Addresses [40000:59999] Process P1
Addresses [60000:89999] Process P2
Addresses [90000:109999] Process P4
Addresses [110000:119999] Process P3
Addresses [120000:1048575] Unused
allocator> RL P1
allocator> RL P4
allocator> STAT
Addresses [0:39999] Process P0
Addresses [40000:59999] Unused
Addresses [60000:89999] Process P2
Addresses [90000:109999] Unused
Addresses [110000:119999] Process P3
Addresses [120000:1048575] Unused
allocator> C
allocator> STAT
Addresses [0:39999] Process P0
Addresses [40000:69999] Process P2
Addresses [70000:79999] Process P3
Addresses [80000:1048575] Unused
allocator> X
pray@unix2:~/CPE453/Lab6 $
```

```
gcc -Wall -g -o allocator allocator.c
pray@unix2:~/CPE453/Lab6 $ ./allocator 8
allocator> RQ P1 2 W
allocator> STAT
Addresses [0:1] Process P1
Addresses [2:7] Unused
allocator> RL P1
allocator> STAT
Addresses [0:7] Unused
allocator> RQ 1 1 W
allocator> RQ 2 1 W
allocator> RQ 3 1 W
allocator> RQ 4 1 W
allocator> RQ 5 1 W
allocator> STAT
Addresses [0:0] Process 1
Addresses [1:1] Process 2
Addresses [2:2] Process 3
Addresses [3:3] Process 4
Addresses [4:4] Process 5
Addresses [5:7] Unused
allocator> RL 3
allocator> RL 2
allocator> STAT
Addresses [0:0] Process 1
Addresses [1:2] Unused
Addresses [3:3] Process 4
Addresses [4:4] Process 5
Addresses [5:7] Unused
allocator> RL 4
allocator> STAT
Addresses [0:0] Process 1
Addresses [1:3] Unused
Addresses [4:4] Process 5
Addresses [5:7] Unused
allocator> RL 1
allocator> STAT
Addresses [0:3] Unused
Addresses [4:4] Process 5
Addresses [5:7] Unused
allocator> RL 5
allocator> STAT
Addresses [0:7] Unused
allocator> x
commands: RQ, RL, C, STAT, X
allocator> X
pray@unix2:~/CPE453/Lab6 $ |
```