OPERATING SYSTEM SIMULATION

*** Clock: 314, Job 1 terminated normally (terminate svc issued)
 Response Time: 314 CPU time: 21 # I/O operations completed: 3
 # I/O operations pending: 0

*** Clock: 4621, Job 2 terminated normally (terminate svc issued)
Dilation: 1.01 CPU time: 2000 # I/O operations completed: 2
 # I/O operations pending: 0

*** Clock: 6265, Job 3 terminated abnormally (max cpu time exceeded)
 Response Time: 365 CPU time: 20 # I/O operations completed: 3
 # I/O operations pending: 0

*** Clock: 7611, Job 7 terminated normally (terminate svc issued)
 Response Time: 252 CPU time: 90 # I/O operations completed: 0
 # I/O operations pending: 0

... continues

*** Clock: 876454, Job 444 terminated abnormally (max cpu time exceeded)
 Response Time: 198 CPU time: 18 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 876714, Job 446 terminated normally (terminate svc issued)
 Response Time: 418 CPU time: 60 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 882414, Job 445 terminated normally (terminate svc issued)
Dilation: 2.45 CPU time: 2500 # I/O operations completed: 2
 # I/O operations pending: 0

*** Clock: 882429, Job 449 terminated abnormally (max cpu time exceeded)
 Response Time: 524 CPU time: 15 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 882843, Job 447 terminated normally (terminate svc issued)
 Response Time: 6528 CPU time: 14 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 886497, Job 448 terminated normally (terminate svc issued)
Dilation: 2.44 CPU time: 3000 # I/O operations completed: 3
 # I/O operations pending: 0

*** Clock: 889136, Job 451 terminated normally (terminate svc issued)
 Response Time: 431 CPU time: 21 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 895156, Job 453 terminated abnormally (max cpu time exceeded)
 Response Time: 551 CPU time: 20 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 897756, Job 450 terminated normally (terminate svc issued)
Dilation: 2.96 CPU time: 4000 # I/O operations completed: 4
 # I/O operations pending: 0

*** Clock: 897756, Job 452 terminated normally (terminate svc issued)
Dilation: 3.23 CPU time: 2000 # I/O operations completed: 2
 # I/O operations pending: 0

*** Clock: 898167, Job 455 terminated normally (terminate svc issued)
 Response Time: 2132 CPU time: 11 # I/O operations completed: 0
 # I/O operations pending: 0

*** Clock: 898367, Job 396 terminated normally (terminate svc issued)
Dilation: 2.42 CPU time: 50000 # I/O operations completed: 50
 # I/O operations pending: 0

*** Clock: 899194, Job 458 terminated normally (terminate svc issued)
 Response Time: 280 CPU time: 9 # I/O operations completed: 0
 # I/O operations pending: 0

                        FINAL STATISTICS

 * * * SYSTEM STATUS AT 900000 * * *
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 CPU: job #457 running
 Disk: idle
 Drum: idle
Memory: 84 K words in use
Average dilation: 2.64
Average Response time: 8963.44

                  CORE MAP

 Partition Job   Partition Job   Partition Job   Partition Job

```
 0    456      25   456      50   457      75    0
 1    456      26   456      51   457      76    0
 2    456      27   456      52   457      77    0
 3    456      28   456      53   457      78    0
 4    456      29   456      54   457      79    0
 5    456      30   456      55   457      80    0
 6    456      31   456      56   457      81    0
 7    456      32   456      57   457      82    0
 8    456      33   456      58   457      83    0
 9    456      34   456      59   457      84    0
10    456      35   456      60   457      85    0
11    456      36   456      61   457      86    0
12    456      37   456      62   457      87  454
13    456      38   456      63   457      88  454
14    456      39   456      64   457      89  454
15    456      40   456      65   457      90  454
16    456      41   456      66   457      91  454
17    456      42   456      67   457      92  454
18    456      43   456      68   457      93  454
19    456      44   456      69   457      94  454
20    456      45   456      70   457      95  454
21    456      46   456      71   457      96  454
22    456      47   457      72   457      97    0
23    456      48   457      73   457      98    0
24    456      49   457      74     0      99    0
```

JOBTABLE

Job#	Size	Time Arrived	CPUTime Used	MaxCPU Time	I/O's Pending	Priority	Blocked	Latched	InCore	Term
24	14	46798	12	18	1	1	yes	no	no	no
12	19	22349	138	550	1	1	yes	no	no	no
421	18	829458	12	23	1	2	yes	no	no	no
60	15	115694	24	14000	1	1	yes	no	no	no
84	14	165292	6	18	1	1	yes	no	no	no
25	17	46828	162	5300	1	2	yes	no	no	no
109	7	210439	6	21	1	2	yes	no	no	no
28	5	49707	42	7100	1	1	yes	no	no	no
288	8	563181	6	15	1	1	yes	no	no	no
34	10	66547	162	3500	1	1	yes	no	no	no
45	15	86326	228	40000	1	2	yes	no	no	no
236	21	461567	48	62	1	1	yes	no	no	no
37	27	66606	72	100	1	1	yes	no	no	no
87	23	165351	6	17	1	2	yes	no	no	no
47	10	86355	258	1300	1	2	yes	no	no	no
66	47	125834	318	65000	1	5	yes	no	no	no
67	27	125853	42	100	1	1	yes	no	no	no
69	14	131443	36	1500	1	2	yes	no	no	no
454	10	896005	1600	3500	0	1	no	no	yes	no
107	10	204849	72	1300	1	2	yes	no	no	no
213	8	420629	18	20	1	2	yes	no	no	no
137	10	264096	12	1300	1	2	yes	no	no	no
239	8	467176	12	15	1	2	yes	no	no	no

167	10	323343	126	1300	1	2	yes	no	no	no
216	47	422069	48	65000	1	5	yes	no	no	no
217	27	422088	30	100	1	1	yes	no	no	no
306	47	599810	138	65000	1	5	yes	no	no	no
253	23	499625	12	1400	1	2	yes	no	no	no
417	23	817068	12	17	1	2	yes	no	no	no
255	15	501055	12	40000	1	2	yes	no	no	no
367	27	718323	30	100	1	1	yes	no	no	no
257	10	501084	12	1300	1	2	yes	no	no	no
259	7	506674	12	21	1	2	yes	no	no	no
287	10	560331	72	1300	1	2	yes	no	no	no
307	27	599829	24	100	1	1	yes	no	no	no
377	10	738072	42	1300	1	2	yes	no	no	no
397	27	777570	54	100	1	1	yes	no	no	no
426	47	836798	72	65000	1	5	yes	no	no	no
437	10	856566	42	1300	1	2	yes	no	no	no
456	47	896045	800	65000	0	5	no	no	yes	no
457	27	896064	24	100	0	1	no	no	yes	no

Total jobs: 458   terminated: 417
% utilization   CPU: 96.16   disk: 15.92   drum: 15.96   memory: 62.05