Test output

1.test0

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test0
new_pid = 1
This is Release 4.00: Test 0
SVC handler: get_time
Time of day is 33
SVC handler: term_proc
Hardware Statistics during the Simulation
Context Switches =   1: CALLS =   8: Masks =   0
The Z502 halts execution and Ends at Time 40
Exiting the program

2.test1a

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1a
This is Release 4.00: Test 1a
SVC handler: get_time
SVC handler: sleep
the higheset priority: 0
SVC handler: get_time
Sleep Time = 5000, elapsed time= 5116
SVC handler: term_proc
Hardware Statistics during the Simulation
Context Switches =   2: CALLS =   2566: Masks =   0
The Z502 halts execution and Ends at Time 5156

Exiting the program

3.test1b

note:I set the max process number as 10

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1b
enter test1b
This is Release 4.00: Test 1b
SVC handler: create
Error:The initial process priority is illegal. (valid range of priority is between 0 and 100.)
Program correctly returned an error: 3
SVC handler: create
Program correctly returned success.
SVC handler: create
Error:Process with assigned name already existed.
Program correctly returned an error: 4
SVC handler: term_proc
Program correctly returned success.
Creating process "Test1b_1"
SVC handler: create
Creating process "Test1b_2"
SVC handler: create
Creating process "Test1b_3"
SVC handler: create
Creating process "Test1b_4"
SVC handler: create
Creating process "Test1b_5"
SVC handler: create
Creating process "Test1b_6"
SVC handler: create
Creating process "Test1b_7"
SVC handler: create
Creating process "Test1b_8"
SVC handler: create
Creating process "Test1b_9"
SVC handler: create
Creating process "Test1b_10"
SVC handler: create
Error:Too much processes running! (Linux can run at most 10 processes in the same time.
)Program correctly returned an error: -1
10 processes were created in all.
SVC handler: get_pid
Program correctly returned success.
The PID of this process is 1

SVC handler: get_pid
Program correctly returned success.
The PID of target process is 2
SVC handler: get_pid
Error:Process with assigned process name not found.
Program correctly returned an error: 6
SVC handler: get_time
Test1b, PID 1, Ends at Time 318
SVC handler: term_proc
Hardware Statistics during the Simulation
Context Switches = 1: CALLS = 34: Masks = 0
The Z502 halts execution and Ends at Time 323
Exiting the program

4. test1c

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1c
This is Release 4.00: Test 1c
SVC handler: create
Program correctly returned success.
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 2
SVC handler: get_time
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 3
Release 4.00:Test 1x: Pid 4
Release 4.00:Test 1x: Pid 5
Release 4.00:Test 1x: Pid 6
Test1X: Pid = 2, Sleep Time = 84, Latency Time = 239
Test1X: Pid = 3, Sleep Time = 100, Latency Time = 260
Test1X: Pid = 5, Sleep Time = 33, Latency Time = 224
Test1X: Pid = 4, Sleep Time = 116, Latency Time = 348
Test1X: Pid = 6, Sleep Time = 93, Latency Time = 300
Test1X: Pid = 2, Sleep Time = 39, Latency Time = 289
Test1X: Pid = 3, Sleep Time = 20, Latency Time = 289
Test1X: Pid = 5, Sleep Time = 33, Latency Time = 267
Test1X: Pid = 4, Sleep Time = 15, Latency Time = 267

Test1X: Pid = 6, Sleep Time = 21, Latency Time = 245
Test1X: Pid = 2, Sleep Time = 130, Latency Time = 264
Test1X: Pid = 5, Sleep Time = 55, Latency Time = 226
Test1X: Pid = 3, Sleep Time = 141, Latency Time = 335
Test1X: Pid = 4, Sleep Time = 110, Latency Time = 351
Test1X: Pid = 2, Sleep Time = 52, Latency Time = 283
Test1X: Pid = 6, Sleep Time = 135, Latency Time = 386
Test1X: Pid = 5, Sleep Time = 66, Latency Time = 343
Test1X: Pid = 3, Sleep Time = 65, Latency Time = 310
Test1X: Pid = 4, Sleep Time = 66, Latency Time = 257
Test1X: Pid = 2, Sleep Time = 65, Latency Time = 269
Test1X: Pid = 6, Sleep Time = 137, Latency Time = 289
Test1X: Pid = 5, Sleep Time = 77, Latency Time = 289
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 244
Test1X: Pid = 3, Sleep Time = 91, Latency Time = 351
Test1X: Pid = 2, Sleep Time = 26, Latency Time = 278
Test1X: Pid = 5, Sleep Time = 0, Latency Time = 229
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 229
Test1X: Pid = 6, Sleep Time = 114, Latency Time = 396
Test1X: Pid = 3, Sleep Time = 26, Latency Time = 278
Test1X: Pid = 5, Sleep Time = 0, Latency Time = 218
Test1X: Pid = 2, Sleep Time = 117, Latency Time = 343
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 320
Test1X: Pid = 5, Sleep Time = 0, Latency Time = 201
Test1X: Pid = 3, Sleep Time = 65, Latency Time = 320
Test1X: Pid = 6, Sleep Time = 122, Latency Time = 429
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 229
Test1X: Pid = 2, Sleep Time = 130, Latency Time = 362
Test1X: Pid = 5, Sleep Time = 0, Latency Time = 289
Test1X: Pid = 3, Sleep Time = 13, Latency Time = 278
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 231
Test1X: Pid = 6, Sleep Time = 80, Latency Time = 349
Test1X: Pid = 5, Sleep Time = 0, Latency Time = 229
Test1x, PID 5, Ends at Time 2975
Test1X: Pid = 2, Sleep Time = 117, Latency Time = 309
Test1X: Pid = 3, Sleep Time = 13, Latency Time = 249
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 227
Test1x, PID 4, Ends at Time 3104
Test1X: Pid = 6, Sleep Time = 11, Latency Time = 198
Test1X: Pid = 2, Sleep Time = 65, Latency Time = 178
Test1x, PID 2, Ends at Time 3195
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 80
Test1X: Pid = 3, Sleep Time = 104, Latency Time = 220
Test1x, PID 3, Ends at Time 3286
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 69
Test1x, PID 6, Ends at Time 3306
Error:Process with assigned process name not found.
Hardware Statistics during the Simulation
Context Switches = 59: CALLS = 1560: Masks = 0

The Z502 halts execution and Ends at Time 3371
Exiting the program

5.test1d

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1d
This is Release 4.00: Test 1d
SVC handler: create
Program correctly returned success.
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 2
SVC handler: get_time
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 3
Release 4.00:Test 1x: Pid 4
Release 4.00:Test 1x: Pid 6
Test1X: Pid = 2, Sleep Time = 84, Latency Time = 178
Test1X: Pid = 3, Sleep Time = 100, Latency Time = 228
Test1X: Pid = 2, Sleep Time = 13, Latency Time = 131
Test1X: Pid = 4, Sleep Time = 116, Latency Time = 294
Test1X: Pid = 3, Sleep Time = 10, Latency Time = 158
Test1X: Pid = 2, Sleep Time = 52, Latency Time = 147
Test1X: Pid = 4, Sleep Time = 43, Latency Time = 158
Test1X: Pid = 6, Sleep Time = 33, Latency Time = 460
Test1X: Pid = 3, Sleep Time = 118, Latency Time = 207
Test1X: Pid = 2, Sleep Time = 130, Latency Time = 218
Test1X: Pid = 4, Sleep Time = 75, Latency Time = 218
Test1X: Pid = 6, Sleep Time = 132, Latency Time = 218
Test1X: Pid = 2, Sleep Time = 65, Latency Time = 180
Test1X: Pid = 3, Sleep Time = 140, Latency Time = 278
Test1X: Pid = 2, Sleep Time = 78, Latency Time = 152
Test1X: Pid = 4, Sleep Time = 33, Latency Time = 332
Test1X: Pid = 6, Sleep Time = 77, Latency Time = 299
Test1X: Pid = 2, Sleep Time = 52, Latency Time = 159
Test1X: Pid = 3, Sleep Time = 142, Latency Time = 321
Test1X: Pid = 4, Sleep Time = 88, Latency Time = 229

Test1X: Pid = 2, Sleep Time = 52, Latency Time = 158
Test1X: Pid = 3, Sleep Time = 49, Latency Time = 158
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 327
Test1X: Pid = 4, Sleep Time = 110, Latency Time = 218
Test1X: Pid = 2, Sleep Time = 117, Latency Time = 229
Test1X: Pid = 3, Sleep Time = 17, Latency Time = 229
Test1X: Pid = 4, Sleep Time = 88, Latency Time = 156
Test1X: Pid = 2, Sleep Time = 65, Latency Time = 167
Test1x, PID 2, Ends at Time 2051
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 69
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 378
Test1X: Pid = 3, Sleep Time = 114, Latency Time = 269
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 169
Test1X: Pid = 3, Sleep Time = 30, Latency Time = 145
Test1X: Pid = 4, Sleep Time = 0, Latency Time = 133
Test1x, PID 4, Ends at Time 2407
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 274
Release 4.00:Test 1x: Pid 5
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 92
Test1X: Pid = 3, Sleep Time = 142, Latency Time = 224
Test1x, PID 3, Ends at Time 2593
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 80
Test1X: Pid = 5, Sleep Time = 36, Latency Time = 200
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 98
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 90
Test1x, PID 6, Ends at Time 2842
Test1X: Pid = 5, Sleep Time = 68, Latency Time = 159
Test1X: Pid = 5, Sleep Time = 26, Latency Time = 105
Test1X: Pid = 5, Sleep Time = 65, Latency Time = 140
Test1X: Pid = 5, Sleep Time = 39, Latency Time = 113
ERROR - Lock is not currently locked by this thread.
Test1X: Pid = 5, Sleep Time = 26, Latency Time = 173
Test1X: Pid = 5, Sleep Time = 130, Latency Time = 196
Test1X: Pid = 5, Sleep Time = 104, Latency Time = 175
Test1X: Pid = 5, Sleep Time = 65, Latency Time = 137
Test1X: Pid = 5, Sleep Time = 26, Latency Time = 107
Test1x, PID 5, Ends at Time 4096
Error:Process with assigned process name not found.
Hardware Statistics during the Simulation
Context Switches = 60: CALLS = 2139: Masks = 0
The Z502 halts execution and Ends at Time 4540
Exiting the program

6.test1e

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1e
SVC handler: get_pid
Release 4.00:Test 1e: Pid 1
SVC handler: create
Program correctly returned success.
SVC handler: suspend
Error:Invalid Pid when suspend process.
Program correctly returned an error: 7
SVC handler: resume
Error:Invalid Pid when suspend process.
Program correctly returned an error: 7
SVC handler: suspend
Program correctly returned success.
SVC handler: suspend
Error:Suspend already suspend process.
Program correctly returned an error: 9
SVC handler: resume
Program correctly returned success.
SVC handler: resume
Error:Resume non-suspend process.
Program correctly returned an error: 11
SVC handler: resume
Error:Resume non-suspend process.
Program correctly returned an error: 11
SVC handler: suspend
Release 4.00:Test 1x: Pid 2
Test1X: Pid = 2, Sleep Time = 45, Latency Time = 80
Test1X: Pid = 2, Sleep Time = 126, Latency Time = 160
Test1X: Pid = 2, Sleep Time = 77, Latency Time = 122
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 62
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 70
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 160
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 53
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 60
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 64
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 66
Test1x, PID 2, Ends at Time 1108
Hardware Statistics during the Simulation
Context Switches = 12: CALLS = 506: Masks = 0
The Z502 halts execution and Ends at Time 1115
Exiting the program

7.test1f

This is Simulation Version 4.00 and Hardware Version 4.00.

```
Program called with 2 arguments: ./os test1f
SVC handler: get_pid
Release 4.00:Test 1f: Pid 1
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 2
SVC handler: get_time
SVC handler: sleep
Release 4.00:Test 1x: Pid 3
Release 4.00:Test 1x: Pid 4
Test1X: Pid = 2, Sleep Time = 26, Latency Time = 146
Test1X: Pid = 3, Sleep Time = 42, Latency Time = 163
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 119
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 84
Test1X: Pid = 3, Sleep Time = 1, Latency Time = 218
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 98
Release 4.00:Test 1x: Pid 5
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 103
Test1X: Pid = 3, Sleep Time = 69, Latency Time = 201
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 177
Test1X: Pid = 3, Sleep Time = 29, Latency Time = 168
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 98
Test1X: Pid = 5, Sleep Time = 108, Latency Time = 406
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 109
Test1X: Pid = 3, Sleep Time = 82, Latency Time = 209
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 170
Test1X: Pid = 3, Sleep Time = 67, Latency Time = 155
Test1X: Pid = 2, Sleep Time = 0, Latency Time = 98
Test1x, PID 2, Ends at Time 1522
Test1X: Pid = 5, Sleep Time = 65, Latency Time = 359
Test1X: Pid = 3, Sleep Time = 43, Latency Time = 118
Test1X: Pid = 3, Sleep Time = 4, Latency Time = 62
Error:Invalid Pid when suspend process.
Error:Invalid Pid when suspend process.
Test1X: Pid = 3, Sleep Time = 67, Latency Time = 116
Error:Invalid Pid when suspend process.
Test1X: Pid = 4, Sleep Time = 102, Latency Time = 1612
Test1X: Pid = 5, Sleep Time = 130, Latency Time = 400
Test1X: Pid = 3, Sleep Time = 86, Latency Time = 189
Test1x, PID 3, Ends at Time 2013
```

Release 4.00:Test 1x: Pid 6
ERROR - Lock is not currently locked by this thread.
Test1X: Pid = 5, Sleep Time = 65, Latency Time = 179
Test1X: Pid = 4, Sleep Time = 135, Latency Time = 310
Test1X: Pid = 5, Sleep Time = 13, Latency Time = 98
Test1X: Pid = 4, Sleep Time = 42, Latency Time = 98
Test1X: Pid = 6, Sleep Time = 40, Latency Time = 356
Test1X: Pid = 5, Sleep Time = 104, Latency Time = 188
ERROR - Lock is not currently locked by this thread.
Test1X: Pid = 4, Sleep Time = 139, Latency Time = 256
Test1X: Pid = 5, Sleep Time = 78, Latency Time = 176
Test1X: Pid = 6, Sleep Time = 104, Latency Time = 315
Test1X: Pid = 4, Sleep Time = 50, Latency Time = 147
Test1X: Pid = 5, Sleep Time = 130, Latency Time = 196
Test1X: Pid = 6, Sleep Time = 130, Latency Time = 219
Test1X: Pid = 4, Sleep Time = 125, Latency Time = 229
Test1X: Pid = 5, Sleep Time = 52, Latency Time = 191
Test1X: Pid = 4, Sleep Time = 13, Latency Time = 109
Test1X: Pid = 5, Sleep Time = 0, Latency Time = 98
Test1x, PID 5, Ends at Time 3200
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 239
ERROR - Lock is not currently locked by this thread.
Test1X: Pid = 4, Sleep Time = 65, Latency Time = 173
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 157
Test1X: Pid = 4, Sleep Time = 13, Latency Time = 106
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 98
ERROR - Lock is not currently locked by this thread.
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 102
Test1X: Pid = 4, Sleep Time = 65, Latency Time = 204
Test1x, PID 4, Ends at Time 3674
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 69
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 84
Test1X: Pid = 6, Sleep Time = 0, Latency Time = 83
Test1x, PID 6, Ends at Time 3894
Hardware Statistics during the Simulation
Context Switches = 62: CALLS = 5793: Masks = 0
The Z502 halts execution and Ends at Time 11898
Exiting the program

8.test1g

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1g
SVC handler: get_pid

Release 4.00:Test 1g: Pid 1
SVC handler: create
Program correctly returned success.
SVC handler: ch_prior
Error:Invalid Pid when change process priority.
Program correctly returned an error: 13
SVC handler: ch_prior
Error:Illegal new priority.
Program correctly returned an error: 14
SVC handler: ch_prior
Program correctly returned success.
SVC handler: term_proc
Hardware Statistics during the Simulation
Context Switches = 1: CALLS = 9: Masks = 0
The Z502 halts execution and Ends at Time 72
Exiting the program

9.test1h

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1h
SVC handler: get_pid
Release 4.00:Test 1h: Pid 1
SVC handler: ch_prior
SVC handler: create
SVC handler: create
SVC handler: create
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 2
SVC handler: get_time
SVC handler: sleep
SVC handler: get_pid
Release 4.00:Test 1x: Pid 3
Release 4.00:Test 1x: Pid 4
ERROR - Lock is not currently locked by this thread.
ERROR - Lock is not currently locked by this thread.
Test1X: Pid = 4, Sleep Time = 8, Latency Time = 486
Test1X: Pid = 2, Sleep Time = 119, Latency Time = 674
Test1X: Pid = 3, Sleep Time = 135, Latency Time = 680
Test1X: Pid = 4, Sleep Time = 129, Latency Time = 191
Test1X: Pid = 2, Sleep Time = 123, Latency Time = 168
Test1X: Pid = 3, Sleep Time = 78, Latency Time = 227
Test1X: Pid = 4, Sleep Time = 72, Latency Time = 205
Test1X: Pid = 3, Sleep Time = 0, Latency Time = 109
Test1X: Pid = 2, Sleep Time = 109, Latency Time = 274

Test1X: Pid = 3, Sleep Time = 0, Latency Time = 109
Test1X: Pid = 4, Sleep Time = 96, Latency Time = 210
Test1X: Pid = 3, Sleep Time = 0, Latency Time = 110
Test1X: Pid = 2, Sleep Time = 62, Latency Time = 240
Test1X: Pid = 3, Sleep Time = 0, Latency Time = 98
Test1X: Pid = 4, Sleep Time = 2, Latency Time = 229
Test1X: Pid = 3, Sleep Time = 0, Latency Time = 109
Test1X: Pid = 2, Sleep Time = 47, Latency Time = 229
Test1X: Pid = 3, Sleep Time = 0, Latency Time = 109
Test1X: Pid = 3, Sleep Time = 0, Latency Time = 60
Hardware Statistics during the Simulation
Context Switches = 26: CALLS = 907: Masks = 0
The Z502 halts execution and Ends at Time 1953
Exiting the program

10.test1i

note:I set the max massage OS can maintain is 16.

(I modified the test1i a little bit, to fit with mu implement of message queue.)

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1i
SVC handler: get_pid
Release 4.00:Test 1i: Pid 1
SVC handler: ch_prior
SVC handler: create
SVC handler: send
Error:target process not found.
Program correctly returned an error: 15
SVC handler: send
Error:Illegal message length.
Program correctly returned an error: 16
SVC handler: receive
Error:Illegal source pid.
Program correctly returned an error: 15
SVC handler: receive
Error:Illegal message length.
Program correctly returned an error: 16
SVC handler: send
Program correctly returned success.
SVC handler: receive
Error:Receive buffer too small.
Program correctly returned an error: 18

SVC handler: send
Error:Message buffer overload.
A total of 17 messages were enqueued.
Hardware Statistics during the Simulation
Context Switches = 1: CALLS = 30: Masks = 0
The Z502 halts execution and Ends at Time 177
Exiting the program

11.test1j

This is Simulation Version 4.00 and Hardware Version 4.00.

Program called with 2 arguments: ./os test1j
SVC handler: get_pid
Release 4.00:Test 1j: Pid 1
SVC handler: ch_prior
Program correctly returned success.
SVC handler: create
Program correctly returned success.
SVC handler: create
Program correctly returned success.
SVC handler: create
Program correctly returned success.
SVC handler: send
Program correctly returned success.
SVC handler: receive
Program correctly returned success.
ERROR - source PID not correct.
SVC handler: send
Program correctly returned success.
SVC handler: receive
Program correctly returned success.
ERROR - source PID not correct.
SVC handler: send
Program correctly returned success.
Program correctly returned success.
ERROR - source PID not correct.
Error:Message buffer overload.
A total of 15 messages were enqueued.
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 0:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 0:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 0:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 1:
Program correctly returned success.

Receive from PID = 1: length = 20: msg = This is message 1:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 1:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 2:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 2:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 2:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 3:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 3:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 3:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 4:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 4:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 4:
Program correctly returned success.
Receive from PID = 1: length = 20: msg = This is message 5:
A total of 16 messages were received.
Hardware Statistics during the Simulation
Context Switches = 1: CALLS = 39: Masks = 0
The Z502 halts execution and Ends at Time 252
Exiting the program

12.test1k

Program called with 2 arguments: ./os test1k
SVC handler: get_pid
Release 4.00:Test 1k: Pid 1
Fault_handler: Found vector type 4 with value 0
Hardware Statistics during the Simulation
Faults = 1: Context Switches = 1: CALLS = 6: Masks = 0
The Z502 halts execution and Ends at Time 30
Exiting the program