This is Simulation Version 4.20 and Hardware Version 4.20.

Program called with 2 arguments: z502.exe test1b

Calling with argument 'sample' executes the sample program.

Simulation is running as a UniProcessor

Add an 'M' to the command line to invoke multiprocessor operation.

process\_name: test1b

process\_to\_run: 18157878

test1b priority validated

validating process\_names

Number of processes already created: 0

PID: 1, process\_context: 13472176 initialized successfully with 10681692

13472176 initial ready position: 1 count\_ready\_queue: 1

ready\_position: 1 process\_name: test1b

starting context for: test1b

This is Release 4.20: Test 1b

SVC handler: create

Arg 0: Contents = (Decimal) 18294368, (Hex) 1172660

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) -3, (Hex) FFFFFFFD

Arg 3: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

Priority assigned is incorrect. Error Number: -16

-16

Exiting!!! As error has occurred

ErrorReturned in SVC: -16

-16

Exiting!!! As error has occurred

test1b: -16

Program correctly returned an error: -16

SVC handler: create

Arg 0: Contents = (Decimal) 18294408, (Hex) 1172688

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) 10, (Hex) A

Arg 3: Contents = (Decimal) 20446064, (Hex) 137FB70

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

two\_the\_same priority validated

validating process\_names

Number of processes already created: 1

PID: 2, process\_context: 13604096 initialized successfully with 20446064

13604096 initial ready position: 1 count\_ready\_queue: 2

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: two\_the\_same

initial ready position: 1 count\_ready\_queue: 2

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: two\_the\_same

ErrorReturned in SVC: 0

context returned: 13604096

Program correctly returned success.

SVC handler: create

Arg 0: Contents = (Decimal) 18294464, (Hex) 11726C0

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) 10, (Hex) A

Arg 3: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

two\_the\_same priority validated

validating process\_names

-19

Exiting!!! As error has occurred

ErrorReturned in SVC: -19

-19

Exiting!!! As error has occurred

Program correctly returned an error: -19

SVC handler: term\_proc

Arg 0: Contents = (Decimal) 13604096, (Hex) CF9500

Arg 1: Contents = (Decimal) 20446048, (Hex) 137FB60

entered terminate process correctly

in Terminate switch case

system argument 0: 13604096, 13604096

entered pop

process context to pop: 13604096

process context: 13604096 popped out of PCB successfully

Program correctly returned success.

Creating process "Test1b\_1"

SVC handler: create

Arg 0: Contents = (Decimal) 20446012, (Hex) 137FB3C

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) 10, (Hex) A

Arg 3: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

Test1b\_1 priority validated

validating process\_names

Number of processes already created: 1

PID: 2, process\_context: 13603664 initialized successfully with 20446076

13603664 initial ready position: 1 count\_ready\_queue: 2

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: Test1b\_1

initial ready position: 1 count\_ready\_queue: 2

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: Test1b\_1

ErrorReturned in SVC: 0

ErrorReturned in test1b: 0

Creating process "Test1b\_2"

SVC handler: create

Arg 0: Contents = (Decimal) 20446012, (Hex) 137FB3C

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) 10, (Hex) A

Arg 3: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

Test1b\_2 priority validated

validating process\_names

Number of processes already created: 2

PID: 3, process\_context: 13603808 initialized successfully with 20446076

13603808 initial ready position: 1 count\_ready\_queue: 3

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: Test1b\_1

ready\_position: 3 process\_name: Test1b\_2

initial ready position: 1 count\_ready\_queue: 3

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: Test1b\_1

ready\_position: 3 process\_name: Test1b\_2

ErrorReturned in SVC: 0

ErrorReturned in test1b: 0

Creating process "Test1b\_3"

SVC handler: create

Arg 0: Contents = (Decimal) 20446012, (Hex) 137FB3C

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) 10, (Hex) A

Arg 3: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

Test1b\_3 priority validated

validating process\_names

Number of processes already created: 3

PID: 4, process\_context: 13602368 initialized successfully with 20446076

13602368 initial ready position: 1 count\_ready\_queue: 4

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: Test1b\_1

ready\_position: 3 process\_name: Test1b\_2

ready\_position: 4 process\_name: Test1b\_3

initial ready position: 1 count\_ready\_queue: 4

ready\_position: 1 process\_name: test1b

ready\_position: 2 process\_name: Test1b\_1

ready\_position: 3 process\_name: Test1b\_2

ready\_position: 4 process\_name: Test1b\_3

ErrorReturned in SVC: 0

ErrorReturned in test1b: 0

Creating process "Test1b\_4"

SVC handler: create

Arg 0: Contents = (Decimal) 20446012, (Hex) 137FB3C

Arg 1: Contents = (Decimal) 18157968, (Hex) 1151190

Arg 2: Contents = (Decimal) 10, (Hex) A

Arg 3: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 4: Contents = (Decimal) 20446048, (Hex) 137FB60

Came in SVC Create Process Block

Test1b\_4 priority validated

validating process\_names

Number of processes already created: 4

validating count -20

-20

Exiting!!! As error has occurred

ErrorReturned in SVC: -20

-20

Exiting!!! As error has occurred

ErrorReturned in test1b: -20

Program correctly returned an error: -20

4 processes were created in all.

SVC handler: get\_pid

Arg 0: Contents = (Decimal) 18315225, (Hex) 11777D9

Arg 1: Contents = (Decimal) 20446064, (Hex) 137FB70

Arg 2: Contents = (Decimal) 20446048, (Hex) 137FB60

Program correctly returned success.

The PID of this process is 13602368

SVC handler: get\_pid

Arg 0: Contents = (Decimal) 20446012, (Hex) 137FB3C

Arg 1: Contents = (Decimal) 20446076, (Hex) 137FB7C

Arg 2: Contents = (Decimal) 20446048, (Hex) 137FB60

Program correctly returned success.

The PID of target process is 13603664

An Error SHOULD have occurred.

????: Error( 0 ) occurred in case -2 (GET\_PROCESS\_ID)

Test1b, PID 13602368, Ends at Time -858993460

ERROR: Simulation did not end correctly