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: 14422326

test1b priority validated

validating process\_names

Number of processes already created: 0

PID: 1, process\_context: 16885888 initialized successfully with 14285252

16885888 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) 14559332, (Hex) DE2864

Arg 1: Contents = (Decimal) 14422416, (Hex) DC1190

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

Arg 3: Contents = (Decimal) 23787484, (Hex) 16AF7DC

Arg 4: Contents = (Decimal) 23787456, (Hex) 16AF7C0

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) 14559372, (Hex) DE288C

Arg 1: Contents = (Decimal) 14422416, (Hex) DC1190

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

Arg 3: Contents = (Decimal) 23787472, (Hex) 16AF7D0

Arg 4: Contents = (Decimal) 23787456, (Hex) 16AF7C0

Came in SVC Create Process Block

two\_the\_same priority validated

validating process\_names

Number of processes already created: 1

PID: 2, process\_context: 17015624 initialized successfully with 23787472

17015624 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: 17015624

Program correctly returned success.

SVC handler: create

Arg 0: Contents = (Decimal) 14559428, (Hex) DE28C4

Arg 1: Contents = (Decimal) 14422416, (Hex) DC1190

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

Arg 3: Contents = (Decimal) 23787484, (Hex) 16AF7DC

Arg 4: Contents = (Decimal) 23787456, (Hex) 16AF7C0

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) 17015624, (Hex) 103A348

Arg 1: Contents = (Decimal) 23787456, (Hex) 16AF7C0

entered terminate process correctly

in Terminate switch case

system argument 0: 17015624, 17015624

entered pop

process context to pop: 17015624

process context: 17015624 popped out of PCB successfully

Program correctly returned success.

Creating process "Test1b\_1"

SVC handler: create

Arg 0: Contents = (Decimal) 23787420, (Hex) 16AF79C

Arg 1: Contents = (Decimal) 14422416, (Hex) DC1190

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

Arg 3: Contents = (Decimal) 23787484, (Hex) 16AF7DC

Arg 4: Contents = (Decimal) 23787456, (Hex) 16AF7C0

Came in SVC Create Process Block

Test1b\_1 priority validated

validating process\_names

Number of processes already created: 1

PID: 2, process\_context: 17016128 initialized successfully with 23787484

17016128 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) 23787420, (Hex) 16AF79C

Arg 1: Contents = (Decimal) 14422416, (Hex) DC1190

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

Arg 3: Contents = (Decimal) 23787484, (Hex) 16AF7DC

Arg 4: Contents = (Decimal) 23787456, (Hex) 16AF7C0

Came in SVC Create Process Block

Test1b\_2 priority validated

validating process\_names

Number of processes already created: 2

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

2 processes were created in all.

SVC handler: get\_pid

Arg 0: Contents = (Decimal) 14579674, (Hex) DE77DA

Arg 1: Contents = (Decimal) 23787472, (Hex) 16AF7D0

Arg 2: Contents = (Decimal) 23787456, (Hex) 16AF7C0

Program correctly returned success.

The PID of this process is 17016128

Program correctly returned success.

The PID of target process is 17016128

SVC handler: get\_pid

Arg 0: Contents = (Decimal) 14559700, (Hex) DE29D4

Arg 1: Contents = (Decimal) 23787484, (Hex) 16AF7DC

Arg 2: Contents = (Decimal) 23787456, (Hex) 16AF7C0

Program correctly returned an error: -21

SVC handler: get\_time

Arg 0: Contents = (Decimal) 23787444, (Hex) 16AF7B4

Time of the day: 158

Test1b, PID 17016128, Ends at Time 158

SVC handler: get\_pid

Arg 0: Contents = (Decimal) 14559764, (Hex) DE2A14

Arg 1: Contents = (Decimal) 23787484, (Hex) 16AF7DC

Arg 2: Contents = (Decimal) 23787456, (Hex) 16AF7C0

Program correctly returned an error: -21

Program correctly returned an error: -21

Program correctly returned an error: -21

Program correctly returned an error: -21

Program correctly returned an error: -21

An Error should NOT have occurred.

????: Error( -21 ) occurred in case -2 (GET\_PROCESS\_ID)

ERROR: Simulation did not end correctly