My Running Images

My Code Running – Log 1

```
Booting from Hard Disk..xv6...
cpu1: starting 1
cpuO: starting O
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap star
pagefault++
Page fault by process "initcode" (pid: 1) at 0x0
virt_to_phys: translated "initcode"(1)'s VA 0x0 to PA 0xdf7c000 (pgdir)
Allocated page table at 0x8dfbd000
virt_to_phys: translated "initcode"(1)'s VA 0x0 to PA 0xdf7c000 (shadow_pgdir)
pagefault++
 irt_to_phys: translated "init"(1)'s VA 0x0 to PA 0xdf38000 (shadow_pgdir)
pagefault--
pagefault++
  age fault by process "init" (pid: 1) at 0x2fe4
  irt_to_phys: translated "init"(1)'s VA 0x2fe4 to PA 0xdf35fe4 (pgdir)
llocated page table at 0x8df34000
virt_to_phys: translated "init"(1)'s VA Ox2fe4 to PA Oxdf35fe4 (shadow_pgdir)
pagefault--
  nit: starting sh
 pagefault++
Page fault by process "init" (pid: 2) at 0x352
virt_to_phys: translated "init"(2)'s VA 0x352 to PA 0xdef3352 (pgdir)
  llocated page table at 0x8deef000
  irt_to_phys: translated "init"(2)'s VA 0x352 to PA 0xdef3352 (shadow_pgdir)
 pagefault++
Page fault by process "init" (pid: 2) at 0x2fbc
  irt_to_phys: translated "init"(2)'s VA Ox2fbc to PA OxdefOfbc (pgdir)
  llocated page table at 0x8deef000
  irt_to_phys: translated "init"(2)'s VA Ox2fbc to PA OxdefOfbc (shad<u>ow_padir)</u>
 agefault++
Page fault by process "sh" (pid: 2) at 0x0
Virt_to_phys: translated "sh"(2)'s VA 0x0 to PA 0xde6c000 (pgdir)
Allocated page table at 0x8de67000
Virt_to_phys: translated "sh"(2)'s VA 0x0 to PA 0xde6c000 (shadow_pgdir)
 agefault--
pagefault++
Page fault by process "sh" (pid: 2) at 0x3fe8
virt_to_phys: translated "sh"(2)'s VA 0x3fe8 to PA 0xde68fe8 (pgdir)
Allocated page table at 0x8de67000
  irt_to_phys: translated "sh"(2)'s VA 0x3fe8 to PA 0xde68fe8 (shadow_pgdir)
pagefault++
page fault by process "sh" (pid: 2) at 0x12f9
Page fault by process "sh" (pid: 2) at 0x12f9 to PA 0xde6a2f9 (pgdir)
Allocated page table at 0x8de67000
```

My Code Running - Usertests

```
pipe1 ok
preempt: kill... wait... preempt ok
exitwait ok
rmdot test
rmdot ok
fourteen test
fourteen ok
bigfile test
bigfile test ok
subdir test
subdir ok
linktest
linktest ok
unlinkread test
unlinkread ok
dir vs file
dir vs file OK
empty file name
empty file name OK
fork test
fork test OK
bigdir test
bigdir ok
uio test
pid 551 usertests: trap 13 err O on cpu O eip Ox3607 addr Oxcf9c--kill proc
uio test done
exec test
ALL TESTS PASSED
```

Extra Points

About Kernel Memory Leak Tests

```
Booting from Hard Disk..xv6...
pul: starting i
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
 usertests
ısertests starting
<u>creat</u>edelete test
reatedelete ok
inkunlink test
inkunlink ok
oncreate test
concreate ok
ourfiles test
ourfiles ok
sharedfd test
:haredfd ok
igarg test
igwrite test
oigwrite ok
igarg test
igarg test ok
oss test
ss test ok
```

This is Vanila Code (with no modification without erase something) 's Usertests

But It is not executed and stop here.

I don't know why but, Vanila code don't have any pagefault

I Think this should be runned.

And also my program acts just like Vanila code.

We should free shadowpgdir in proc.c

function

```
for(;;){
 // Scan through table looking for exited children.
 havekids = 0;
 for(p = ptable.proc; p < &ptable.proc[NPROC]; p++){</pre>
    if(p->parent != curproc)
     continue:
    havekids = 1;
    if(p->state == ZOMBIE){
     // Found one.
      pid = p->pid;
      kfree(p->kstack);
      p->kstack = 0;
      freevm(p->pgdir);
      p \rightarrow pid = 0;
      p-parent = 0;
      p - name[0] = 0;
      p->killed = 0;
      p->state = UNUSED;
      release(&ptable.lock);
      return pid;
```

when we setupkvm the shadow_pgdir we should free when it is in zombie state but it is not freed in proc.c – wait