

Ryan Chang
Karan Bhogal
Team #45

Lab 3 - Writeup

Files changed

- proc.h
 - Added the stackcount data member in the proc struct
- trap.c
 - Added the T_PGFLT case
- vm.c
 - Added a second for loop in the copyvm() function which utilizes the bounds of $i = \text{KERNBASE} - 2 * \text{PGSIZE}$ and $i < \text{KERNBASE}$
 - added instructions for unclearpteu, basically looks for inaccessible page guard, and makes it accessible (undoes the clearpteu action, bit masking with PTE_U)
- syscall.c
 - Commented out the bounds relating to sz for fetchstr(), fetchint(), and argptr()
- exec.c
 - Changed the bounds of allocvm function call in the middle of the exec() function to utilize $\text{KERNBASE} - \text{PGSIZE} - 2 * \text{PGSIZE}$ as the old size and the new size is $\text{KERNBASE} - \text{PGSIZE}$
 - since KERNBASE is kernel memory, we start at 1 word under kerbase
 - curproc->stackcount is set to 1
 - set stack pointer to the new bottom of the stack
- Makefile
 - Implemented lab3.c test code to be able to execute
 - CPUs set to 1
- defs.h
 - Defined unclearpteu(pde_t *pgdir, char *uva);