OPERATING SYSTEMS PROJECT 4 REPORT
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In the first part, to print the process tree, we, firstly, needed to find the root process so we can print the tree structure of the all processes as tree so we found the root process by firstly finding the current process by task_struct *current. As we know root process was the one whose PID is 0 so we as long as we reach the process 0, we found current process parent. After finding the root process whose PID is 0, we write a method print_tree(struct task_struct *root) and give the root process to it. In print_tree, by the help of list_for_each method, we found the each child of the root and then we also found the each child of these processes by recursively calling the print tree method. While doing these, we leave some spaces to show the actual tree structure. We printed the PID, Name, parent PID of the process consecutively. We tested it with dmesg of our program and with pstree command of linux

In the second part, we used the same root process to do the operation. We have a method called void print_vm_info_process(struct task_struct *my_current,int id, int *flag). In this method, we recursively traverse the process tree and we encounter the process from the function, which we gave the PID to. We stopped and find the virtual regions of the process one by one and printk the start of it, end of it and the size of it by substracting start address from end address. We accumulated these sizes into a variable and at the end we printk that too and that is the size of total virtual region of that process. We checked this from ps auxf command in linux. VSZ column show this value but it is in KBs. We found it in bytes. We divide our result by 1024, we found the exact match with this VSZ value of the process.

In the third part, we again give the root process to void print_data_for_process(struct task_struct *my_current, int id, int *flag) method of ours and then while traversing the tree, when we find the PID match, we found the set of open files of the process by the help of files_struct in task_struct then ftable in files_struct and we reached name and sizes with the help of these structs too. We gave the array of files of the current process to files_fdtable method and it returned the files_table. This files_table is array of pointers so is indexes are the file descriptor numbers and the values at these indexes are the actual files. To file size, we accessed with inode struct of the file struct. To file name, we accessed with f_path struct then its dentry member then its dname struct then name variable of this struct is the name of the file. We printed the File size, File name, File descriptor of the files, file size in number of blocks, and the inode number of the current processes' files. We tested it with lsof command of the linux, which shows the open files of the process and their information with given ID.

MODULE CODE:

```
#include <linux/init.h>
#include <linux/stat.h>
#include <linux/module.h>
#include <linux/kernel.h>
#include <linux/moduleparam.h>
#include <linux/sched.h>
#include <linux/string.h>
#include <linux/mm.h>
#include <linux/fs.h>
#include <linux/fdtable.h>
#include <linux/path.h>
#include <linux/dcache.h>
```

```
#include <linux/slab.h>


MODULE_LICENSE("GPL");
MODULE_AUTHOR("ERKAN ÖNAL and ÖMER MESUD TOKER");
MODULE_DESCRIPTION("Process Monitoring Module");

int a = 0;

//Sub-method to print tree structure
char * space(int a){
	if (a == 0)
		return "";
	char b[2000];
	int n = 0;
	while((n/5)<a){
		b[n] = ' ';
		b[n+1] = ' ';
		b[n+2] = ' ';
		b[n+3] = ' ';
		b[n+4] = ' ';
		n = n+5;
	}

	n = 0;

	while((n/5)< a) {
		printk("%c", b[n++]);
	}
	return "";
}

//Recursively printing the structure of the tree
void print_tree(struct task_struct *root){
	struct list_head *theList;
	struct task_struct *new;
	struct task_struct *new_copy;
	a = 0;
	list_for_each(theList, &root->children){
		new = list_entry(theList, struct task_struct, sibling);
		new_copy = new;
		a = 0;
		while(new_copy->parent != &init_task){
			new_copy = new_copy->parent;
			a++;
		}

		printk("%s | [%d], [%s], [%d]\n",space(a), new->pid, new->comm, new->parent-
>pid /*, head_of_children*/);

		if((&new->children)->next != &new->children)
			print_tree(new);
```

```
	}
}
//Printing VM region informations
void print_vm_info_process(struct task_struct *my_current,int id, int *flag) {
	struct task_struct *next_process = NULL;
	struct list_head *head_of_children_list;

	if(my_current->pid == id){
		*flag = 1;
		printk(KERN_INFO "Process is found: %d\n", id);
		struct vm_area_struct *list_of_vms = NULL;
		struct vm_area_struct *list_of_vms_temp = NULL;
		if( my_current->mm != NULL){
			list_of_vms = my_current->mm->mmap;
			list_of_vms_temp = list_of_vms;
		}
		if(list_of_vms == NULL){
			printk(KERN_ALERT "The process' virtual memory size is 0\n");
			return;
		}

		int VM_counter = 0;
		long vm_size_total = 0;
		long vm_size = 0;
		while(list_of_vms_temp != NULL){
			long vm_start_address = list_of_vms_temp->vm_start;
			long vm_end_address = list_of_vms_temp->vm_end;
			vm_size = (vm_end_address - vm_start_address);
			printk(KERN_INFO "VM REGION %d START ADDRESS:
%lu\n",VM_counter, vm_start_address);
			printk(KERN_INFO "VM REGION %d END ADDRESS:
%lu\n",VM_counter, vm_end_address);
			printk(KERN_INFO "VM REGION %d ADDRESS SIZE: %lu bytes = %lu
KB \n",VM_counter, vm_size, vm_size/1024);
			vm_size_total = vm_size_total + vm_size;
			list_of_vms_temp = list_of_vms_temp->vm_next;
			VM_counter++;
		}
		if(list_of_vms != NULL){
			printk(KERN_INFO "TOTAL SIZE OF THE VM REGION USED BY
PROCESS %d IS: %lu bytes = %lu KB\n",id, vm_size_total,   vm_size_total/1024);
		}
		return;
	}
	//recursively call this function on each child of the current process
	head_of_children_list = &(my_current->children);
	list_for_each_entry(next_process, head_of_children_list, sibling) {
		print_vm_info_process(next_process, id, flag);
	}
}
//Printing file information of a file
void print_data_for_process(struct task_struct *my_current, int id, int *flag) {
```

```
	struct task_struct *next_process = NULL;
	struct list_head *head_of_children_list;

	if(my_current->pid == id){
		*flag = 1;
		printk("Process is found: %d\n", id);
		//struct file *list_of_files[64];
		//memcpy(list_of_files, my_current->files->fd_array, sizeof list_of_files);

		//My test cases
		struct files_struct *current_files;
		struct fdtable *files_table;
		unsigned int *fds;
		int i=0;
		struct path files_path;
		char *cwd;
		char *buf = (char *)kmalloc(GFP_KERNEL,100*sizeof(char));

		current_files = my_current->files;
		files_table = files_fdtable(current_files);
		int entered = 1;
		while(files_table->fd[i] != NULL) {
			struct file *myfile = files_table->fd[i];
			unsigned long *blocks = myfile->f_inode->i_blocks;
		    unsigned long *ino = myfile->f_inode->i_ino;
			char *file_name = myfile->f_path.dentry->d_name.name;
			long size = myfile->f_inode->i_size;
			printk(KERN_ALERT "File %d size is: %lu bytes = %lu KB\n", i, size,
size/1024);
			printk(KERN_ALERT "File %d name is: %s  \n", i, file_name);
			printk(KERN_ALERT "File %d fd is: %d  \n", i, i);
			printk(KERN_ALERT "File %d inode number is: %lu \n", i, ino);
		    printk(KERN_ALERT "File %d no of blocks is: %lu\n\n", i, blocks);
			i++;
			entered = 0;
		}
		if(entered == 1)
			printk(KERN_ALERT "Process %d has currently no open files\n",
my_current->pid);
		return;
	}
	//recursively calling this function on each child of the current process
	head_of_children_list = &(my_current->children);
	list_for_each_entry(next_process, head_of_children_list, sibling) {
		print_data_for_process(next_process, id, flag);
	}
}

//Parameter to pass while inserting the module
static int PID = 1;
module_param(PID, int, S_IRUSR | S_IWUSR | S_IRGRP | S_IROTH);
```

```
static int __init init_func(void){
	printk(KERN_INFO "Initialization started\n");
	struct task_struct *my_current;
	my_current = current;

	while (my_current->pid != 0){
		my_current = my_current->parent;
	}

	printk("Process information...\n");

	printk(" | [PID], [name], [parent PID]\n");
	print_tree(my_current);
	int flag1 = 0;
	int flag2 = 0;
	print_vm_info_process(my_current, PID, &flag1);
	if(flag1 == 0)
		printk(KERN_ALERT "There is no process whose PID is: %d\n", PID);

	print_data_for_process(my_current, PID, &flag2);
	if(flag2 == 0)
		printk(KERN_ALERT "There is no process whose PID is: %d\n", PID);


	printk(KERN_ALERT "MY PID is: %d", PID);

	return 0;
}

static void __exit cleanup_func(void){
	printk(KERN_INFO "MODULE REMOVED\n");
}

module_init(init_func);
module_exit(cleanup_func);
```

SAMPLE INPUTS AND OUTPUTS:

```
[12926.618602] Initialization started
[12926.618605] Process information...
[12926.618606]  | [PID], [name], [parent PID]
[12926.618607]  | [1], [systemd], [0]
[12926.618609]      | [203], [systemd-journal], [1]
[12926.618612]      | [225], [systemd-udevd], [1]
[12926.618614]      | [611], [ModemManager], [1]
[12926.618616]      | [625], [acpid], [1]
[12926.618619]      | [630], [dbus-daemon], [1]
[12926.618621]      | [655], [accounts-daemon], [1]
[12926.618623]      | [657], [NetworkManager], [1]
[12926.618626]          | [908], [dnsmasq], [657]
[12926.618630]          | [16981], [dhclient], [657]
[12926.618634]      | [659], [cron], [1]
```

[12926.618636] | [660], [systemd-logind], [1]
[12926.618638] | [662], [avahi-daemon], [1]
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[12926.618649] | [676], [rsyslogd], [1]
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[12926.618654] | [781], [lightdm], [1]
[12926.618656] | [999], [Xorg], [781]
[12926.618660] | [1144], [lightdm], [781]
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[12926.619819] | [16890], [kworker/u4:1], [2]
[12926.619821] | [16953], [kworker/0:2], [2]
[12926.619823] | [17152], [kworker/1:0], [2]
[12926.619826] | [17174], [kworker/u4:0], [2]
[12926.619828] Process is found: 203
[12926.619830] VM REGION 0 START ADDRESS: 94710086012928
[12926.619831] VM REGION 0 END ADDRESS: 94710086328320
[12926.619832] VM REGION 0 ADDRESS SIZE: 315392 bytes = 308 KB
[12926.619833] VM REGION 1 START ADDRESS: 94710086332416
[12926.619834] VM REGION 1 END ADDRESS: 94710086340608
[12926.619835] VM REGION 1 ADDRESS SIZE: 8192 bytes = 8 KB
[12926.619836] VM REGION 2 START ADDRESS: 94710086340608
[12926.619836] VM REGION 2 END ADDRESS: 94710086344704
[12926.619837] VM REGION 2 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619838] VM REGION 3 START ADDRESS: 94710089596928
[12926.619839] VM REGION 3 END ADDRESS: 94710089990144
[12926.619840] VM REGION 3 ADDRESS SIZE: 393216 bytes = 384 KB
[12926.619841] VM REGION 4 START ADDRESS: 140052826124288
[12926.619842] VM REGION 4 END ADDRESS: 140052828749824
[12926.619843] VM REGION 4 ADDRESS SIZE: 2625536 bytes = 2564 KB
[12926.619844] VM REGION 5 START ADDRESS: 140052828749824
[12926.619845] VM REGION 5 END ADDRESS: 140052828766208
[12926.619846] VM REGION 5 ADDRESS SIZE: 16384 bytes = 16 KB
[12926.619846] VM REGION 6 START ADDRESS: 140052828766208
[12926.619847] VM REGION 6 END ADDRESS: 140052830859264
[12926.619848] VM REGION 6 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.619849] VM REGION 7 START ADDRESS: 140052830859264
[12926.619850] VM REGION 7 END ADDRESS: 140052830863360
[12926.619851] VM REGION 7 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619852] VM REGION 8 START ADDRESS: 140052830863360
[12926.619852] VM REGION 8 END ADDRESS: 140052830867456
[12926.619853] VM REGION 8 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619854] VM REGION 9 START ADDRESS: 140052830867456
[12926.619855] VM REGION 9 END ADDRESS: 140052830941184
[12926.619856] VM REGION 9 ADDRESS SIZE: 73728 bytes = 72 KB
[12926.619857] VM REGION 10 START ADDRESS: 140052830941184

[12926.619858] VM REGION 10 END ADDRESS: 140052833038336
[12926.619859] VM REGION 10 ADDRESS SIZE: 2097152 bytes = 2048 KB
[12926.619860] VM REGION 11 START ADDRESS: 140052833038336
[12926.619860] VM REGION 11 END ADDRESS: 140052833042432
[12926.619861] VM REGION 11 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619862] VM REGION 12 START ADDRESS: 140052833042432
[12926.619863] VM REGION 12 END ADDRESS: 140052833046528
[12926.619864] VM REGION 12 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619865] VM REGION 13 START ADDRESS: 140052833046528
[12926.619866] VM REGION 13 END ADDRESS: 140052833058816
[12926.619867] VM REGION 13 ADDRESS SIZE: 12288 bytes = 12 KB
[12926.619867] VM REGION 14 START ADDRESS: 140052833058816
[12926.619868] VM REGION 14 END ADDRESS: 140052835151872
[12926.619869] VM REGION 14 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.619870] VM REGION 15 START ADDRESS: 140052835151872
[12926.619871] VM REGION 15 END ADDRESS: 140052835155968
[12926.619872] VM REGION 15 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619873] VM REGION 16 START ADDRESS: 140052835155968
[12926.619873] VM REGION 16 END ADDRESS: 140052835160064
[12926.619874] VM REGION 16 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619875] VM REGION 17 START ADDRESS: 140052835160064
[12926.619876] VM REGION 17 END ADDRESS: 140052835610624
[12926.619877] VM REGION 17 ADDRESS SIZE: 450560 bytes = 440 KB
[12926.619878] VM REGION 18 START ADDRESS: 140052835610624
[12926.619879] VM REGION 18 END ADDRESS: 140052837707776
[12926.619880] VM REGION 18 ADDRESS SIZE: 2097152 bytes = 2048 KB
[12926.619880] VM REGION 19 START ADDRESS: 140052837707776
[12926.619881] VM REGION 19 END ADDRESS: 140052837711872
[12926.619882] VM REGION 19 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619883] VM REGION 20 START ADDRESS: 140052837711872
[12926.619884] VM REGION 20 END ADDRESS: 140052837715968
[12926.619885] VM REGION 20 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619886] VM REGION 21 START ADDRESS: 140052837715968
[12926.619886] VM REGION 21 END ADDRESS: 140052839546880
[12926.619887] VM REGION 21 ADDRESS SIZE: 1830912 bytes = 1788 KB
[12926.619888] VM REGION 22 START ADDRESS: 140052839546880
[12926.619889] VM REGION 22 END ADDRESS: 140052841644032
[12926.619890] VM REGION 22 ADDRESS SIZE: 2097152 bytes = 2048 KB
[12926.619891] VM REGION 23 START ADDRESS: 140052841644032
[12926.619892] VM REGION 23 END ADDRESS: 140052841660416
[12926.619892] VM REGION 23 ADDRESS SIZE: 16384 bytes = 16 KB
[12926.619893] VM REGION 24 START ADDRESS: 140052841660416
[12926.619894] VM REGION 24 END ADDRESS: 140052841668608
[12926.619895] VM REGION 24 ADDRESS SIZE: 8192 bytes = 8 KB
[12926.619896] VM REGION 25 START ADDRESS: 140052841668608
[12926.619897] VM REGION 25 END ADDRESS: 140052841684992
[12926.619898] VM REGION 25 ADDRESS SIZE: 16384 bytes = 16 KB
[12926.619899] VM REGION 26 START ADDRESS: 140052841684992
[12926.619900] VM REGION 26 END ADDRESS: 140052841783296
[12926.619900] VM REGION 26 ADDRESS SIZE: 98304 bytes = 96 KB
[12926.619901] VM REGION 27 START ADDRESS: 140052841783296
[12926.619902] VM REGION 27 END ADDRESS: 140052843876352

[12926.619903] VM REGION 27 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.619904] VM REGION 28 START ADDRESS: 140052843876352
[12926.619905] VM REGION 28 END ADDRESS: 140052843880448
[12926.619906] VM REGION 28 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619906] VM REGION 29 START ADDRESS: 140052843880448
[12926.619907] VM REGION 29 END ADDRESS: 140052843884544
[12926.619908] VM REGION 29 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619909] VM REGION 30 START ADDRESS: 140052843884544
[12926.619910] VM REGION 30 END ADDRESS: 140052843900928
[12926.619911] VM REGION 30 ADDRESS SIZE: 16384 bytes = 16 KB
[12926.619912] VM REGION 31 START ADDRESS: 140052843900928
[12926.619912] VM REGION 31 END ADDRESS: 140052843929600
[12926.619913] VM REGION 31 ADDRESS SIZE: 28672 bytes = 28 KB
[12926.619914] VM REGION 32 START ADDRESS: 140052843929600
[12926.619915] VM REGION 32 END ADDRESS: 140052846022656
[12926.619916] VM REGION 32 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.619917] VM REGION 33 START ADDRESS: 140052846022656
[12926.619917] VM REGION 33 END ADDRESS: 140052846026752
[12926.619918] VM REGION 33 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619919] VM REGION 34 START ADDRESS: 140052846026752
[12926.619920] VM REGION 34 END ADDRESS: 140052846030848
[12926.619921] VM REGION 34 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619922] VM REGION 35 START ADDRESS: 140052846030848
[12926.619923] VM REGION 35 END ADDRESS: 140052846915584
[12926.619923] VM REGION 35 ADDRESS SIZE: 884736 bytes = 864 KB
[12926.619924] VM REGION 36 START ADDRESS: 140052846915584
[12926.619925] VM REGION 36 END ADDRESS: 140052849008640
[12926.619926] VM REGION 36 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.619927] VM REGION 37 START ADDRESS: 140052849008640
[12926.619928] VM REGION 37 END ADDRESS: 140052849012736
[12926.619929] VM REGION 37 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.619929] VM REGION 38 START ADDRESS: 140052849012736
[12926.619930] VM REGION 38 END ADDRESS: 140052849045504
[12926.619931] VM REGION 38 ADDRESS SIZE: 32768 bytes = 32 KB
[12926.619932] VM REGION 39 START ADDRESS: 140052849045504
[12926.619933] VM REGION 39 END ADDRESS: 140052849049600
[12926.620044] VM REGION 39 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620045] VM REGION 40 START ADDRESS: 140052849049600
[12926.620046] VM REGION 40 END ADDRESS: 140052849184768
[12926.620047] VM REGION 40 ADDRESS SIZE: 135168 bytes = 132 KB
[12926.620048] VM REGION 41 START ADDRESS: 140052849184768
[12926.620049] VM REGION 41 END ADDRESS: 140052851277824
[12926.620050] VM REGION 41 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.620051] VM REGION 42 START ADDRESS: 140052851277824
[12926.620051] VM REGION 42 END ADDRESS: 140052851281920
[12926.620052] VM REGION 42 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620053] VM REGION 43 START ADDRESS: 140052851281920
[12926.620054] VM REGION 43 END ADDRESS: 140052851286016
[12926.620055] VM REGION 43 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620056] VM REGION 44 START ADDRESS: 140052851286016
[12926.620057] VM REGION 44 END ADDRESS: 140052851314688
[12926.620057] VM REGION 44 ADDRESS SIZE: 28672 bytes = 28 KB

[12926.620058] VM REGION 45 START ADDRESS: 140052851314688
[12926.620059] VM REGION 45 END ADDRESS: 140052853407744
[12926.620060] VM REGION 45 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.620061] VM REGION 46 START ADDRESS: 140052853407744
[12926.620062] VM REGION 46 END ADDRESS: 140052853411840
[12926.620063] VM REGION 46 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620064] VM REGION 47 START ADDRESS: 140052853411840
[12926.620064] VM REGION 47 END ADDRESS: 140052853415936
[12926.620065] VM REGION 47 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620066] VM REGION 48 START ADDRESS: 140052853415936
[12926.620067] VM REGION 48 END ADDRESS: 140052853542912
[12926.620068] VM REGION 48 ADDRESS SIZE: 126976 bytes = 124 KB
[12926.620069] VM REGION 49 START ADDRESS: 140052853542912
[12926.620070] VM REGION 49 END ADDRESS: 140052855635968
[12926.620071] VM REGION 49 ADDRESS SIZE: 2093056 bytes = 2044 KB
[12926.620072] VM REGION 50 START ADDRESS: 140052855635968
[12926.620072] VM REGION 50 END ADDRESS: 140052855640064
[12926.620073] VM REGION 50 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620074] VM REGION 51 START ADDRESS: 140052855640064
[12926.620075] VM REGION 51 END ADDRESS: 140052855644160
[12926.620076] VM REGION 51 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620077] VM REGION 52 START ADDRESS: 140052855644160
[12926.620077] VM REGION 52 END ADDRESS: 140052855652352
[12926.620078] VM REGION 52 ADDRESS SIZE: 8192 bytes = 8 KB
[12926.620079] VM REGION 53 START ADDRESS: 140052855652352
[12926.620080] VM REGION 53 END ADDRESS: 140052855808000
[12926.620081] VM REGION 53 ADDRESS SIZE: 155648 bytes = 152 KB
[12926.620082] VM REGION 54 START ADDRESS: 140052857753600
[12926.620083] VM REGION 54 END ADDRESS: 140052857782272
[12926.620083] VM REGION 54 ADDRESS SIZE: 28672 bytes = 28 KB
[12926.620084] VM REGION 55 START ADDRESS: 140052857884672
[12926.620085] VM REGION 55 END ADDRESS: 140052857888768
[12926.620086] VM REGION 55 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620087] VM REGION 56 START ADDRESS: 140052857888768
[12926.620088] VM REGION 56 END ADDRESS: 140052857892864
[12926.620089] VM REGION 56 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620089] VM REGION 57 START ADDRESS: 140052857892864
[12926.620090] VM REGION 57 END ADDRESS: 140052857901056
[12926.620091] VM REGION 57 ADDRESS SIZE: 8192 bytes = 8 KB
[12926.620092] VM REGION 58 START ADDRESS: 140052857901056
[12926.620093] VM REGION 58 END ADDRESS: 140052857905152
[12926.620094] VM REGION 58 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620095] VM REGION 59 START ADDRESS: 140052857905152
[12926.620095] VM REGION 59 END ADDRESS: 140052857909248
[12926.620096] VM REGION 59 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620097] VM REGION 60 START ADDRESS: 140052857909248
[12926.620098] VM REGION 60 END ADDRESS: 140052857913344
[12926.620099] VM REGION 60 ADDRESS SIZE: 4096 bytes = 4 KB
[12926.620100] VM REGION 61 START ADDRESS: 140727552409600
[12926.620101] VM REGION 61 END ADDRESS: 140727552548864
[12926.620102] VM REGION 61 ADDRESS SIZE: 139264 bytes = 136 KB
[12926.620103] VM REGION 62 START ADDRESS: 140727552749568

[12926.620103] VM REGION 62 END ADDRESS: 140727552757760
[12926.620104] VM REGION 62 ADDRESS SIZE: 8192 bytes = 8 KB
[12926.620105] VM REGION 63 START ADDRESS: 140727552757760
[12926.620106] VM REGION 63 END ADDRESS: 140727552765952
[12926.620107] VM REGION 63 ADDRESS SIZE: 8192 bytes = 8 KB
[12926.620108] TOTAL SIZE OF THE VM REGION USED BY PROCESS 203 IS: 30617600 bytes = 29900 KB
[12926.620115] Process is found: 203
[12926.620117] File 0 size is: 0 bytes = 0 KB
[12926.620119] File 0 name is: null
[12926.620120] File 0 fd is: 0
[12926.620121] File 0 inode number is: 6
[12926.620121] File 0 no of blocks is: 0

[12926.620123] File 1 size is: 0 bytes = 0 KB
[12926.620124] File 1 name is: null
[12926.620125] File 1 fd is: 1
[12926.620125] File 1 inode number is: 6
[12926.620126] File 1 no of blocks is: 0

[12926.620127] File 2 size is: 0 bytes = 0 KB
[12926.620128] File 2 name is: null
[12926.620129] File 2 fd is: 2
[12926.620130] File 2 inode number is: 6
[12926.620131] File 2 no of blocks is: 0

[12926.620132] File 3 size is: 0 bytes = 0 KB
[12926.620133] File 3 name is: UNIX
[12926.620134] File 3 fd is: 3
[12926.620135] File 3 inode number is: 9435
[12926.620135] File 3 no of blocks is: 0

[12926.620137] File 4 size is: 0 bytes = 0 KB
[12926.620138] File 4 name is: NETLINK
[12926.620139] File 4 fd is: 4
[12926.620140] File 4 inode number is: 9340
[12926.620140] File 4 no of blocks is: 0

[12926.620142] File 5 size is: 0 bytes = 0 KB
[12926.620143] File 5 name is: UNIX
[12926.620143] File 5 fd is: 5
[12926.620144] File 5 inode number is: 9350
[12926.620145] File 5 no of blocks is: 0

[12926.620146] File 6 size is: 0 bytes = 0 KB
[12926.620147] File 6 name is: UNIX
[12926.620148] File 6 fd is: 6
[12926.620149] File 6 inode number is: 9351
[12926.620150] File 6 no of blocks is: 0

[12926.620151] File 7 size is: 0 bytes = 0 KB
[12926.620152] File 7 name is: kmsg

[12926.620152] File 7 fd is: 7
[12926.620153] File 7 inode number is: 12
[12926.620154] File 7 no of blocks is: 0

[12926.620156] File 8 size is: 0 bytes = 0 KB
[12926.620156] File 8 name is: [eventpoll]
[12926.620157] File 8 fd is: 8
[12926.620158] File 8 inode number is: 6987
[12926.620159] File 8 no of blocks is: 0

[12926.620160] File 9 size is: 0 bytes = 0 KB
[12926.620161] File 9 name is: kmsg
[12926.620162] File 9 fd is: 9
[12926.620163] File 9 inode number is: 12
[12926.620163] File 9 no of blocks is: 0

[12926.620165] File 10 size is: 0 bytes = 0 KB
[12926.620166] File 10 name is: hostname
[12926.620167] File 10 fd is: 10
[12926.620167] File 10 inode number is: 9493
[12926.620168] File 10 no of blocks is: 0

[12926.620170] File 11 size is: 0 bytes = 0 KB
[12926.620170] File 11 name is: [signalfd]
[12926.620171] File 11 fd is: 11
[12926.620172] File 11 inode number is: 6987
[12926.620173] File 11 no of blocks is: 0

[12926.620174] File 12 size is: 0 bytes = 0 KB
[12926.620175] File 12 name is: [signalfd]
[12926.620176] File 12 fd is: 12
[12926.620177] File 12 inode number is: 6987
[12926.620178] File 12 no of blocks is: 0

[12926.620179] File 13 size is: 0 bytes = 0 KB
[12926.620180] File 13 name is: [signalfd]
[12926.620181] File 13 fd is: 13
[12926.620182] File 13 inode number is: 6987
[12926.620182] File 13 no of blocks is: 0

[12926.620184] File 14 size is: 0 bytes = 0 KB
[12926.620185] File 14 name is: UNIX
[12926.620185] File 14 fd is: 14
[12926.620186] File 14 inode number is: 9494
[12926.620187] File 14 no of blocks is: 0

[12926.620188] File 15 size is: 0 bytes = 0 KB
[12926.620189] File 15 name is: [timerfd]
[12926.620190] File 15 fd is: 15
[12926.620191] File 15 inode number is: 6987
[12926.620192] File 15 no of blocks is: 0

[12926.620193] File 16 size is: 0 bytes = 0 KB
[12926.620194] File 16 name is: UNIX
[12926.620195] File 16 fd is: 16
[12926.620196] File 16 inode number is: 47427
[12926.620196] File 16 no of blocks is: 0

[12926.620365] File 17 size is: 0 bytes = 0 KB
[12926.620366] File 17 name is: UNIX
[12926.620367] File 17 fd is: 17
[12926.620368] File 17 inode number is: 9633
[12926.620368] File 17 no of blocks is: 0

[12926.620370] File 18 size is: 0 bytes = 0 KB
[12926.620371] File 18 name is: UNIX
[12926.620371] File 18 fd is: 18
[12926.620372] File 18 inode number is: 15089
[12926.620373] File 18 no of blocks is: 0

[12926.620374] File 19 size is: 0 bytes = 0 KB
[12926.620375] File 19 name is: UNIX
[12926.620376] File 19 fd is: 19
[12926.620377] File 19 inode number is: 12472
[12926.620378] File 19 no of blocks is: 0

[12926.620379] File 20 size is: 0 bytes = 0 KB
[12926.620380] File 20 name is: UNIX
[12926.620381] File 20 fd is: 20
[12926.620382] File 20 inode number is: 47428
[12926.620382] File 20 no of blocks is: 0

[12926.620384] File 21 size is: 0 bytes = 0 KB
[12926.620385] File 21 name is: UNIX
[12926.620385] File 21 fd is: 21
[12926.620386] File 21 inode number is: 16626
[12926.620387] File 21 no of blocks is: 0

[12926.620388] File 22 size is: 0 bytes = 0 KB
[12926.620389] File 22 name is: UNIX
[12926.620390] File 22 fd is: 22
[12926.620391] File 22 inode number is: 19237
[12926.620392] File 22 no of blocks is: 0

[12926.620393] File 23 size is: 0 bytes = 0 KB
[12926.620394] File 23 name is: UNIX
[12926.620395] File 23 fd is: 23
[12926.620396] File 23 inode number is: 11912
[12926.620397] File 23 no of blocks is: 0

[12926.620398] File 24 size is: 0 bytes = 0 KB
[12926.620399] File 24 name is: UNIX
[12926.620400] File 24 fd is: 24
[12926.620401] File 24 inode number is: 18216

[12926.620401] File 24 no of blocks is: 0

[12926.620403] File 25 size is: 0 bytes = 0 KB
[12926.620404] File 25 name is: UNIX
[12926.620404] File 25 fd is: 25
[12926.620405] File 25 inode number is: 12035
[12926.620406] File 25 no of blocks is: 0

[12926.620407] File 26 size is: 0 bytes = 0 KB
[12926.620408] File 26 name is: UNIX
[12926.620409] File 26 fd is: 26
[12926.620410] File 26 inode number is: 14048
[12926.620411] File 26 no of blocks is: 0

[12926.620412] File 27 size is: 0 bytes = 0 KB
[12926.620413] File 27 name is: UNIX
[12926.620413] File 27 fd is: 27
[12926.620414] File 27 inode number is: 12037
[12926.620415] File 27 no of blocks is: 0

[12926.620416] File 28 size is: 0 bytes = 0 KB
[12926.620417] File 28 name is: UNIX
[12926.620418] File 28 fd is: 28
[12926.620419] File 28 inode number is: 18217
[12926.620420] File 28 no of blocks is: 0

[12926.620421] File 29 size is: 0 bytes = 0 KB
[12926.620422] File 29 name is: UNIX
[12926.620423] File 29 fd is: 29
[12926.620423] File 29 inode number is: 12822
[12926.620424] File 29 no of blocks is: 0

[12926.620425] File 30 size is: 0 bytes = 0 KB
[12926.620426] File 30 name is: UNIX
[12926.620427] File 30 fd is: 30
[12926.620428] File 30 inode number is: 12823
[12926.620429] File 30 no of blocks is: 0

[12926.620430] File 31 size is: 0 bytes = 0 KB
[12926.620431] File 31 name is: UNIX
[12926.620432] File 31 fd is: 31
[12926.620433] File 31 inode number is: 17276
[12926.620433] File 31 no of blocks is: 0

[12926.620435] File 32 size is: 0 bytes = 0 KB
[12926.620436] File 32 name is: UNIX
[12926.620436] File 32 fd is: 32
[12926.620437] File 32 inode number is: 13151
[12926.620438] File 32 no of blocks is: 0

[12926.620439] File 33 size is: 0 bytes = 0 KB
[12926.620440] File 33 name is: UNIX

[12926.620441] File 33 fd is: 33
[12926.620442] File 33 inode number is: 13152
[12926.620443] File 33 no of blocks is: 0

[12926.620444] File 34 size is: 0 bytes = 0 KB
[12926.620445] File 34 name is: UNIX
[12926.620446] File 34 fd is: 34
[12926.620446] File 34 inode number is: 17277
[12926.620447] File 34 no of blocks is: 0

[12926.620449] File 35 size is: 0 bytes = 0 KB
[12926.620449] File 35 name is: UNIX
[12926.620450] File 35 fd is: 35
[12926.620451] File 35 inode number is: 19981
[12926.620452] File 35 no of blocks is: 0

[12926.620453] File 36 size is: 0 bytes = 0 KB
[12926.620454] File 36 name is: UNIX
[12926.620455] File 36 fd is: 36
[12926.620456] File 36 inode number is: 17317
[12926.620456] File 36 no of blocks is: 0

[12926.620458] File 37 size is: 0 bytes = 0 KB
[12926.620459] File 37 name is: UNIX
[12926.620459] File 37 fd is: 37
[12926.620460] File 37 inode number is: 19084
[12926.620461] File 37 no of blocks is: 0

[12926.620463] File 38 size is: 0 bytes = 0 KB
[12926.620464] File 38 name is: UNIX
[12926.620464] File 38 fd is: 38
[12926.620465] File 38 inode number is: 17363
[12926.620466] File 38 no of blocks is: 0

[12926.620467] File 39 size is: 0 bytes = 0 KB
[12926.620468] File 39 name is: UNIX
[12926.620469] File 39 fd is: 39
[12926.620470] File 39 inode number is: 13214
[12926.620471] File 39 no of blocks is: 0

[12926.620472] File 40 size is: 2625536 bytes = 2564 KB
[12926.620473] File 40 name is: system.journal
[12926.620474] File 40 fd is: 40
[12926.620475] File 40 inode number is: 60
[12926.620476] File 40 no of blocks is: 5128

[12926.620477] File 41 size is: 0 bytes = 0 KB
[12926.620478] File 41 name is: UNIX
[12926.620479] File 41 fd is: 41
[12926.620480] File 41 inode number is: 17364
[12926.620480] File 41 no of blocks is: 0

[12926.620482] File 42 size is: 0 bytes = 0 KB
[12926.620483] File 42 name is: UNIX
[12926.620483] File 42 fd is: 42
[12926.620484] File 42 inode number is: 24052
[12926.620485] File 42 no of blocks is: 0

[12926.620486] File 43 size is: 0 bytes = 0 KB
[12926.620487] File 43 name is: UNIX
[12926.620488] File 43 fd is: 43
[12926.620489] File 43 inode number is: 20221
[12926.620490] File 43 no of blocks is: 0

[12926.620491] File 44 size is: 0 bytes = 0 KB
[12926.620492] File 44 name is: UNIX
[12926.620492] File 44 fd is: 44
[12926.620493] File 44 inode number is: 20222
[12926.620494] File 44 no of blocks is: 0

[12926.620495] File 45 size is: 0 bytes = 0 KB
[12926.620496] File 45 name is: UNIX
[12926.620497] File 45 fd is: 45
[12926.620498] File 45 inode number is: 18548
[12926.620499] File 45 no of blocks is: 0

[12926.620500] File 46 size is: 0 bytes = 0 KB
[12926.620501] File 46 name is: UNIX
[12926.620502] File 46 fd is: 46
[12926.620503] File 46 inode number is: 19778
[12926.620503] File 46 no of blocks is: 0

[12926.620505] File 47 size is: 0 bytes = 0 KB
[12926.620506] File 47 name is: UNIX
[12926.620506] File 47 fd is: 47
[12926.620507] File 47 inode number is: 19779
[12926.620508] File 47 no of blocks is: 0

[12926.620510] File 48 size is: 0 bytes = 0 KB
[12926.620510] File 48 name is: UNIX
[12926.620511] File 48 fd is: 48
[12926.620512] File 48 inode number is: 27569
[12926.620513] File 48 no of blocks is: 0

[12926.620514] File 49 size is: 0 bytes = 0 KB
[12926.620515] File 49 name is: UNIX
[12926.620516] File 49 fd is: 49
[12926.620517] File 49 inode number is: 19982
[12926.620517] File 49 no of blocks is: 0

[12926.620519] File 50 size is: 0 bytes = 0 KB
[12926.620519] File 50 name is: UNIX
[12926.620520] File 50 fd is: 50
[12926.620521] File 50 inode number is: 19995

[12926.620522] File 50 no of blocks is: 0

[12926.620523] File 51 size is: 0 bytes = 0 KB
[12926.620524] File 51 name is: UNIX
[12926.620525] File 51 fd is: 51
[12926.620526] File 51 inode number is: 19996
[12926.620526] File 51 no of blocks is: 0

[12926.620528] File 52 size is: 0 bytes = 0 KB
[12926.620528] File 52 name is: UNIX
[12926.620529] File 52 fd is: 52
[12926.620530] File 52 inode number is: 20008
[12926.620531] File 52 no of blocks is: 0

[12926.620532] File 53 size is: 0 bytes = 0 KB
[12926.620533] File 53 name is: UNIX
[12926.620534] File 53 fd is: 53
[12926.620535] File 53 inode number is: 20009
[12926.620535] File 53 no of blocks is: 0

[12926.620537] File 54 size is: 0 bytes = 0 KB
[12926.620538] File 54 name is: UNIX
[12926.620538] File 54 fd is: 54
[12926.620539] File 54 inode number is: 20121
[12926.620540] File 54 no of blocks is: 0

[12926.620541] File 55 size is: 0 bytes = 0 KB
[12926.620542] File 55 name is: UNIX
[12926.620543] File 55 fd is: 55
[12926.620544] File 55 inode number is: 20122
[12926.620545] File 55 no of blocks is: 0

[12926.620546] File 56 size is: 0 bytes = 0 KB
[12926.620547] File 56 name is: UNIX
[12926.620548] File 56 fd is: 56
[12926.620548] File 56 inode number is: 20127
[12926.620549] File 56 no of blocks is: 0

[12926.620550] File 57 size is: 0 bytes = 0 KB
[12926.620551] File 57 name is: UNIX
[12926.620552] File 57 fd is: 57
[12926.620553] File 57 inode number is: 20128
[12926.620554] File 57 no of blocks is: 0

[12926.620555] File 58 size is: 0 bytes = 0 KB
[12926.620556] File 58 name is: UNIX
[12926.620557] File 58 fd is: 58
[12926.620557] File 58 inode number is: 20830
[12926.620558] File 58 no of blocks is: 0

[12926.620560] File 59 size is: 0 bytes = 0 KB
[12926.620560] File 59 name is: UNIX

[12926.620561] File 59 fd is: 59
[12926.620562] File 59 inode number is: 20831
[12926.620563] File 59 no of blocks is: 0

[12926.620564] File 60 size is: 0 bytes = 0 KB
[12926.620565] File 60 name is: UNIX
[12926.620566] File 60 fd is: 60
[12926.620567] File 60 inode number is: 20839
[12926.620568] File 60 no of blocks is: 0

[12926.620569] File 61 size is: 0 bytes = 0 KB
[12926.620570] File 61 name is: UNIX
[12926.620571] File 61 fd is: 61
[12926.620571] File 61 inode number is: 20841
[12926.620572] File 61 no of blocks is: 0

[12926.620574] File 62 size is: 0 bytes = 0 KB
[12926.620574] File 62 name is: UNIX
[12926.620575] File 62 fd is: 62
[12926.620576] File 62 inode number is: 20233
[12926.620577] File 62 no of blocks is: 0

[12926.620578] File 63 size is: 0 bytes = 0 KB
[12926.620579] File 63 name is: UNIX
[12926.620580] File 63 fd is: 63
[12926.620581] File 63 inode number is: 20234
[12926.620582] File 63 no of blocks is: 0

[12926.620583] File 64 size is: 0 bytes = 0 KB
[12926.620584] File 64 name is: UNIX
[12926.620585] File 64 fd is: 64
[12926.620585] File 64 inode number is: 20242
[12926.620586] File 64 no of blocks is: 0

[12926.620588] File 65 size is: 0 bytes = 0 KB
[12926.620589] File 65 name is: UNIX
[12926.620589] File 65 fd is: 65
[12926.620590] File 65 inode number is: 20244
[12926.620591] File 65 no of blocks is: 0

[12926.620592] File 66 size is: 0 bytes = 0 KB
[12926.620593] File 66 name is: UNIX
[12926.620594] File 66 fd is: 66
[12926.620595] File 66 inode number is: 20298
[12926.620596] File 66 no of blocks is: 0

[12926.620597] File 67 size is: 0 bytes = 0 KB
[12926.620598] File 67 name is: UNIX
[12926.620599] File 67 fd is: 67
[12926.620600] File 67 inode number is: 20300
[12926.620600] File 67 no of blocks is: 0

[12926.620602] File 68 size is: 0 bytes = 0 KB
[12926.620603] File 68 name is: UNIX
[12926.620603] File 68 fd is: 68
[12926.620604] File 68 inode number is: 27570
[12926.620605] File 68 no of blocks is: 0