Linux kernel map functionalitie numan interfaces processing networking system storage memory layers sockets access memory access HI char devices interfaces core processes files & directories kernel/signal.c sys fork user sys brk system files System Call Interface sys kill sys_vfork sys_socketcall cdey add sys_mmapshm_vm_ops sys_signal sys_write sys_read sys execve sys_clone sys_socket linux/syscalls.h sys mkdir space do sigaction sys_shmctl sys_connect /proc /sysfs/dev sys_sysinfo sys_tee sys_poll linux/uaccess.h sys_shmat sys_accept sys_pipe sys_select do_pa sysfs_ops sys_bind _copy_from_user interfaces nput fops /proc/net/ linux binfmt sys_listen si meminfo sys_futex sys mprotect tcp4_seq_show register_chrdev sys_ioctl sys_gettimeofday sys_sendfi snd\fops sys sendmsg video fops sys_mincore sys_time sg_proc_seq_show_dev cdev add sys_recvmsg system calls /dev/mem console_fops sys_times sys_setsockopt rt_cache_seq_show and system files cdev mapsys_epoll_create mem_fops mmap_mem sys_msync fb_fops sys_capset cdev sys_reboot /proc/meminfo sys_syslog $sock_{\perp}ioctl$ /proc/self/maps sys_init_module sys_nanosleep sys_sysfs virtual memory **Virtual File System** address families threads inet_init sock create file_systems Device Model security/security vmalloc_init INIT WORK / queue work vfs fstat driver init find vma prepare linux/security.h vfs write linux/kobject.h vfs getattr inet_family_ops security_capset may_open kobject vfs create workqueue_struct work struct virtual kset inet create inode security_socket_create vmalloc linux/device.h unix_family_ops kthread create inode permission vfree inode operations bus_type kernel thread security inode create device_create proto ops security_ops file system type vm struct current selinux ops do fork inet dgram ops inet stream ops thread info get_sb virt_to_page class device_type generic_file_aio_read super block socket file ops driver_register ramfs_fs_type mm/mmap.c do mmap debugging synchronization memory device driver page cache socket network lock kernel mapping address_space bdi_writeback_thread bridges storage splice sys_ptrace probe mutex do writepages sock sendpage kvm nfs_file_operations register_kprobe printk add timer do_mmap_pgoff si_swapinfo cross-functional load_module down interruptible tcp_sendpage timer list kmem_cache_alloc smb_fs_type up semaphore modules run_timer_softirq handle_sysrq oprofile_start module kobject uevent init udp_sendpage vma_link swap infokswapd cifs_file_ops module_param kobject_uevent sock splice read mm_struct wake_up_ do_swap_page kgdb breakpoint oprofile init 'Pspin_lock_irqsave spin_unlock_irqrestore iscsi_tcp_transport tcp_splice_read kernel param msleep vm_area_struct wakeup kswapd proto protocols HI subsystems logical logical memory Scheduler system run /proc/net/protocols file systems boot, shutdown kernel/sched.c power management udp prot tcp prot task struct logical 0\$5 init/main.c tcp_recvmsg tcp_sendmsg udp_recvmsg udp_sendmsg mm init alsa start kernel ext4_file_operations tcp_y4_rcv schedule timeout udp/rcv kmålloc tcp_transmit_skb schedule do initcalls implementations ext4_get_sb NF HOOK video device kfree setup time ip_queue_xmit pgd_t pmd_t ext4_readdir run_init_process kernel_power_off ip_push_pending_frames mousedev handler process timeou pte t ip_route_inputalloc_skb machine_ops context switch ip rcv sk buff **Page Allocator** block devices abstract devices generic HW access network interfaces interrupts core linux/netdevice.h and request_irq gendisk block/ pci_driver request_region tasklet_struct HID class drivers dev_queue_xmit __free_pages netif_receive_skb device block_device_operations pci_register_driver kmem<u>/</u>cache request_mem_region jiffies_64++ request queue drivers/input/ drivers/media/ tasklet action init scsi __free_one_page kmem cache init\ pci_request_regions do_timer net device control kmem_cache_alloc scsi_device console tick_periodic scsi_driver _get_free_pages kbd alloc_netdev mq ieee802/11_alloc_hw usb submit urb timer_interrupt sd fops alloc pages do_softirq fb_ops usb_hcd_giveback_urb ether setup ieee80211 rx do_IRQ mousedev usb⊥hcd iiq_desc netif_carrier_on ieee80211 xmit drm_driver softirq_init totalram_pages try_to_free_pages usb_stor_host_template drivers/net/ arch/x86/ CPU specific physical memory HI peripherals storage device access network device drivers setup_arch and bus drivers operations drivers device drivers hardware x86 init trap_init uvc driver early_trap_init arch/x86/mm/ mem_init get_page_from_freelist ehci_irq usbnet_probe start_thread native_init_IRQ switch_to ac97_driver writew interfaces vga<u></u>vcon zonelist zone /proc/interrupts set_intr_gate scsi_host_alloc readw ipw2100_pci_init_one ehci_urb<u>_</u>enqueue atkbd drv zd1201 probe free area free list system_call outw drivers, Scsi Host e1000 xmit frame usb_hcd_irq i8042 driver _out_of_memory | die registers and interrupts interrupt show_regs ahci_pci_driver pci_read e1000_intr psmouse aic94xx_init pt_regs atomic_t \ cli | sti num_physpages do_page_fault pci_write drivers/media/video/ user peripherals I/O mem I/O **CPU** storage controllers etwork controllers memory PCI electronics USB controller keyboard camera SATA Ethernet Wi-Fi ACPI RAM DMA MMU SCSI registers APIC controller I/O ports mouse graphics card audio controller

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