Two types of kernel :

monolithic kernel:- it is signal large process runnig entairly in a single address space
Eg:- linux kernel
micro kernel:- it is broken down into separate process known as servers . Some of the servers run in kernel space and some of the servers run in user space .
MAC OS usseses micro kernel

Porting RTLinux on Raspberry pi
VGA :- only video signals transfer
HDMI:- it can transfer the both audio and video signals
RJ45:- LAN cable connector
RCA jack
SD card :- secure digital card
SSH:- secure shell

ssh ip-addr -l logine-name

uname -m :- it display the ARCH name
uname -r :- kernel version
unmae -a :- all information
cat /proc/cpuinfo
- hardware : bcm2708
-processor : 0
.....

cat /var/lib/misc/dnsmasq leases

Repalcing the GPOS kernel from Raspberry pi to RT kernel

Board Bringup images
1.Bootloader
2.kernel
3.RFS(root file system)

GPOS(Linux)	Embedded system(RT Linux)
Bootloader - GRUB	Bootloader -Universal Bootloader
Old bootloader -LILO	U-Boot
Windows – NILDR	Bare Box
	Super ViVI
Kernel image VmLinux-x.x.x	Kernel image zImage,Image ,uImage

Boot partition Fat file system	RFS partition Ext (linux file system)
-Boot loader -kernel (GPOS)	RFS

Micro SD card

coping the RT kernel into Boot partition in place of GPOS kernel

partition checking

sudo bash
homw/pi# fdisk -l

RT kernel image
~/desktop/respberrypi/xxxx/rtpatch

TFTP NFS for raspberry pi

https://dynamicparallax.wordpress.com/2015/08/20/how-to-setup-raspberry-pi-as-a-tftp-server/

https://www.raspberrypi.org/documentation/remote-access/ssh/

https://www.wikihow.com/Get-Started-with-the-Raspberry-Pi