• Linux Gernel 3.10 % 10mm libres of world.

· System calls - API that the knowel exposes to new space. User space asks the hernel to perform some action on its behalf.

• syscall - function in the standard Clibrary to involve a system call by number (normally system calls are involved by wrappers in the std. E 116)

· What to do to suplement a system call on the Lormx kernel?

m/mistd.h Posix stuff. 1 Define a system all number: /ardi/arm/mclude/uapi/asm/unistd.h

(2) Add an entry to the system call table. entry. S not used arch/arm/hernel/calls.s anymore here, calls, Sis

3 Add to the generic headers to the herne) the new function prototype: /mclude/Immx/syscalls.h - non-architecture specific stuff

Ex: "asm In kage long sys-open (const char - user + flename, int

meaning args are on stack, not following argument is a variable sourced following argument is a variable sourced from user memory, i.e. NOT

Add system call implementation: to be trusted by the kernel (usually uspred to tak: / kernel / exit. C < note this is diff than definition:

SYSCAU_DEFINE 1 (exit, rut, code) { === }

of originments deexit (code) = convention to actually mplement in dox 5 Modify build Makefile to include new *.c implementation file

Add x.0 to obj-y.

no printf, no malloc, etc.

· Kernel conventions:

Detach and hear in neerspace have a lot of memory calls syscalls

In the hernel, the stack is very small - never he recursion

Where pronth, uprintf common functions: Ichalloc (with any where to)

Where pronth, uprintf Kfree, pronth, Wprontf

Hocesses

+ exists in the Lourx Legarel

▶ Has a data structure, associated with it: task-struct (400+1 nues!)

