```
[system_call.s]
system function preparation and signal function preparation
0x10 superuser space
0x17 user space
inb ...
outb ...
test ...
and ...
NATURE unit unit offset
[signal.c]
signal function execution
superuser mode default
superuser mode ignore
user mode customize
put_fs() from superuser space to user space
get_fs() to superuser space from user space
*(&parameter) meaningful in assembly language
typedef void function(int)
void(*function(void(*parameter)(int)))(int)
[fork.c]
use task
write_verify()
page write then write
page not write then copy and write
[exit.c]
task function execution and use signal
task graph task node and around task node
```

```
parent task
young_sibling_task old_sibling_task
child task
process identity
process_identity process_group_identity
process_identity process_group_identity session_identity
1<<(number-1)
for(p=node;p;p=p->next node)
#ifdef OBJECT
#endif
[sys.c]
real_user_identity real_user_group_identity
effective user identity effective user group identity
saved_user_identity saved_user_group_identity
resource_limit[RESOURCE]
resource usage[RESOURCE]
time_value time_zone
past_seconds+past_microseconds+jiffy=present
present seconds+present microseconds=present
past assume+jiffy seconds=present seconds
past assume+jiffy+jiffy offset=present
function(buffer,buffer size)
```

```
[asm.s]
error function preparation
lea ... [eax] ...
mov ... eax ...
_function:
pushl $_do_function
jmp common
common:
xchgl %eax,(%esp)
call *%eax
convert function() to _function
convert do_function() to _do_function
FPU coprocessor
[traps.c]
error function execution
instruction access register memory device
instruction rely on register
movb(8bit) mov(16bit) movl(32bit)
```

```
[sched.c]
union task_union
{
struct task_struct task_struct;
char task_superuser_stack[4096];
};
char task_user_stack[4096];
union task_union task_union = { task_struct };
struct task_struct * task[64] = { &(task_union.task_struct) };
several function one data constitute related data
one function several data constitute related data
function_0 time_0 time_segment_0
function_1 time_1 time_segment_0 time_segment_1
function_2 time_2 time_segment_0 time_segment_1 time_segment_2
NATURE unit unit_represent
```

[mktime.c]

seconds from 1970 year 1(0) month 1 day 0 hour 0 minute 0 seconds

#define MINUTE 60 #define HOUR 60*MINUTE #define DAY 24*HOUR

NATURE unit_behind unit_among unit_front

```
[printk.c]
```

vsprintf() convert format argument to buffer

tty_write() rely on fs

user rely on fs superuser not rely on fs

esp(32bit) sp(16bit) top of stack ebp(32bit) bp(16bit) bottom of stack

extern type name : declare variable : no memory

type name : define variable : memory

static type name : file scope type name : project scope

[panic.c]

loop