```
trap 0x0000000e Page Fault
cr2  0xeebfdfc8
err  0x00000000 [kernel, read, not-present]
eip  0xf01007a4
cs   0x----0008
```

Error code

The Page Fault sets an error code:

```
 31              4              0
+---+--  --+---+---+---+---+---+---+
|   Reserved   | I | R | U | W | P |
+---+--  --+---+---+---+---+---+---+
```

	Length	Name	Description
P	1 bit	Present	When set, the page fault was caused by a page-protection violation. When not set, it was caused by a non-present page.
W	1 bit	Write	When set, the page fault was caused by a page write. When not set, it was caused by a page read.
U	1 bit	User	When set, the page fault was caused while CPL = 3. This does not necessarily mean that the page fault was a privilege violation.
R	1 bit	Reserved write	When set, the page fault was caused by reading a 1 in a reserved field.
I	1 bit	Instruction Fetch	When set, the page fault was caused by an instruction fetch.

In addition, it sets the value of the CR2 register to the virtual address which caused the Page Fault.

```
K> backtrace
EBP :efffff30  ,EIP f01009fe  ,args:  00000000 ,  effffff5c,   effffff70 ,   f01031a3,   f010316f
EBP :efffff30  ,EIP f01009fe  ,args:  00000000
Source File : kern/monitor.c    Line# : 276    Func Name   : monitor:F(0,20)  number of arguments  : 1

 EBP :efffff50  ,EIP f01030a0  ,args:  f01a0000 ,  00001000,   00000001 ,   00000000,   f0118f98
EBP :efffff50  ,EIP f01030a0  ,args:  f01a0000
Source File : kern/env.c    Line# : 29    Func Name   : env_destroy:F(0,20)  number of arguments  : 1

 EBP :efffff80  ,EIP f0103aa8  ,args:  00000003 ,  00000000,   00000000 ,   00000000,   00000000
EBP :efffff80  ,EIP f0103aa8  ,args:  00000003 ,  00000000,   00000000 ,   00000000,   00000000
Source File : kern/syscall.c    Line# : 228    Func Name   : syscall:F(2,8)  number of arguments  : 6

 EBP :effffbb0  ,EIP f01038c2  ,args:  effffbbc ,  00000000,   00000000 ,   eebfdfb0,   effffdc
EBP :effffbb0  ,EIP f01038c2  ,args:  effffbbc
Source File : kern/trap.c    Line# : 209    Func Name   : trap:F(0,20)  number of arguments  : 1

 Incoming TRAP frame at 0xeffffe3c and trap_num Page Fault
 page_fault_handler()
TRAP frame at 0xeffffe3c
```

Entry.s _start:

```
ELFHDR->e_entry = 800020
```

```
00800020 <_start>:
```

0x18	4	8	e_entry	This is the memory address of the entry point from where the process starts executing. This field is either 32 or 64 bits long depending on the format defined earlier.