

# SYSCALL Path (i386 32-bit Mode)

**ECX Clobbered:**  
CPU saves EIP  
to ECX, so user  
copies params  
to EDX first

**Per-CPU:**  
Separate entry  
per processor  
(8 variants in  
MINIX i386)

**SYSRET:**  
Fast return via  
ECX (EIP) and  
internal EFLAGS

**32-bit SYSCALL:**

- ECX clobbered
- Uses STAR MSR
- No ESP MSR
- Per-CPU entries
- Manual stack mgmt

**Cost: ~1439 cycles**  
(x86-64 benchmark)  
i386 may differ

