Debugging a Crash

Objective: In this lab you will extend the knowledge gained in Lab 17a to attempt to diagnose what happened to this kernel that resulted in a crash.

1. Examine the crash file labeled "Lab17b.tar.gz" (to expand "*tar xvfz filename*")

```
This program is free software, covered by the GNU General Public License,
and you are welcome to change it and/or distribute copies of it under
certain conditions.  Enter "help copying" to see the conditions.
This program has absolutely no warranty.  Enter "help warranty" for details.

GNU gdb (GDB) 7.6
Copyright (C) 2013 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.  Type "show copying"
and "show warranty" for details.
This GDB was configured as "x86_64-unknown-linux-gnu"...

      KERNEL: /usr/lib/debug/lib/modules/3.10.0-123.6.3.el7.x86_64.debug/vmlinux
    DUMPFILE: /var/crash/127.0.0.1-2014.09.12-10:36:50/vmcore  [PARTIAL DUMP]
        CPUS: 1
        DATE: Fri Sep 12 10:36:39 2014
      UPTIME: 00:21:26
LOAD AVERAGE: 0.54, 0.42, 0.29
       TASKS: 481
    NODENAME: localhost.localdomain
     RELEASE: 3.10.0-123.6.3.el7.x86_64.debug
     VERSION: #1 SMP Wed Jul 16 15:18:28 EDT 2014
     MACHINE: x86_64  (3073 Mhz)
      MEMORY: 2 GB
       PANIC: "Oops: 0010 [#1] SMP " (check log for details)
         PID: 5309
     COMMAND: "insmod"
        TASK: ffff880036cecf20  [THREAD_INFO: ffff8800513fc000]
         CPU: 0
       STATE: TASK_RUNNING (PANIC)
```

2. Use the features available in the crash command to identify the cause of the crash. List the commands you used and the information you gained to conduct your analysis.