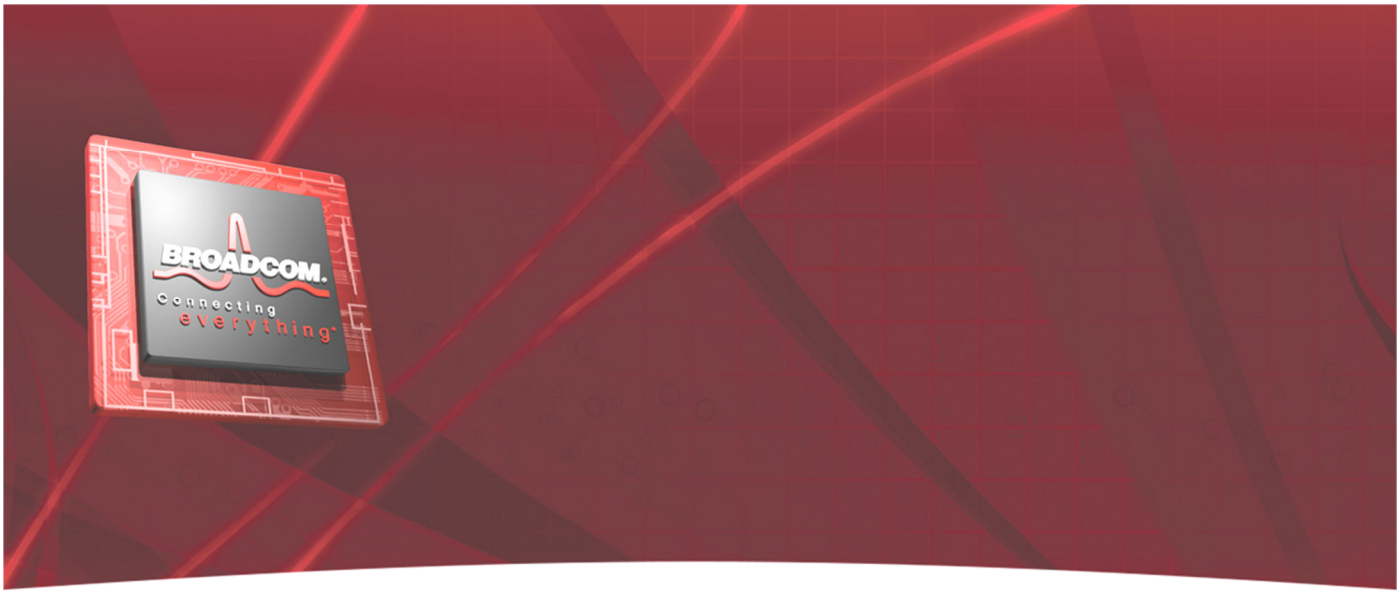

Bsysperf

User Guide

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Revision History

Revision	Date	Change Description	Editor
1.0	08/31/2015	Initial version	C. Detrick

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What Is bsysperf?

The bmempef utility is a system performance monitoring tool which can be accessed through a web interface.

What Does the bsysperf Tool Provide?

Bsysperf tool will provide the following information:

1. CPU Utilization
2. Networking RX/TX speed, error counts
3. Interrupt performance
4. Memory Analysis
    a. System Cache hit/miss
    b. Heap usage
5. Profiling
    a. Perf Top
    b. Linux Top
    c. Perf Deep analysis

How to Build and Run

The bsysperf utility requires a Webserver, an html (Javascript) file and a CGI application written in C.

Source Location:

BSEAV/tools/bsysperf

BSEAV/lib/boa

How to Build:

1. plat 97445 D0 SV

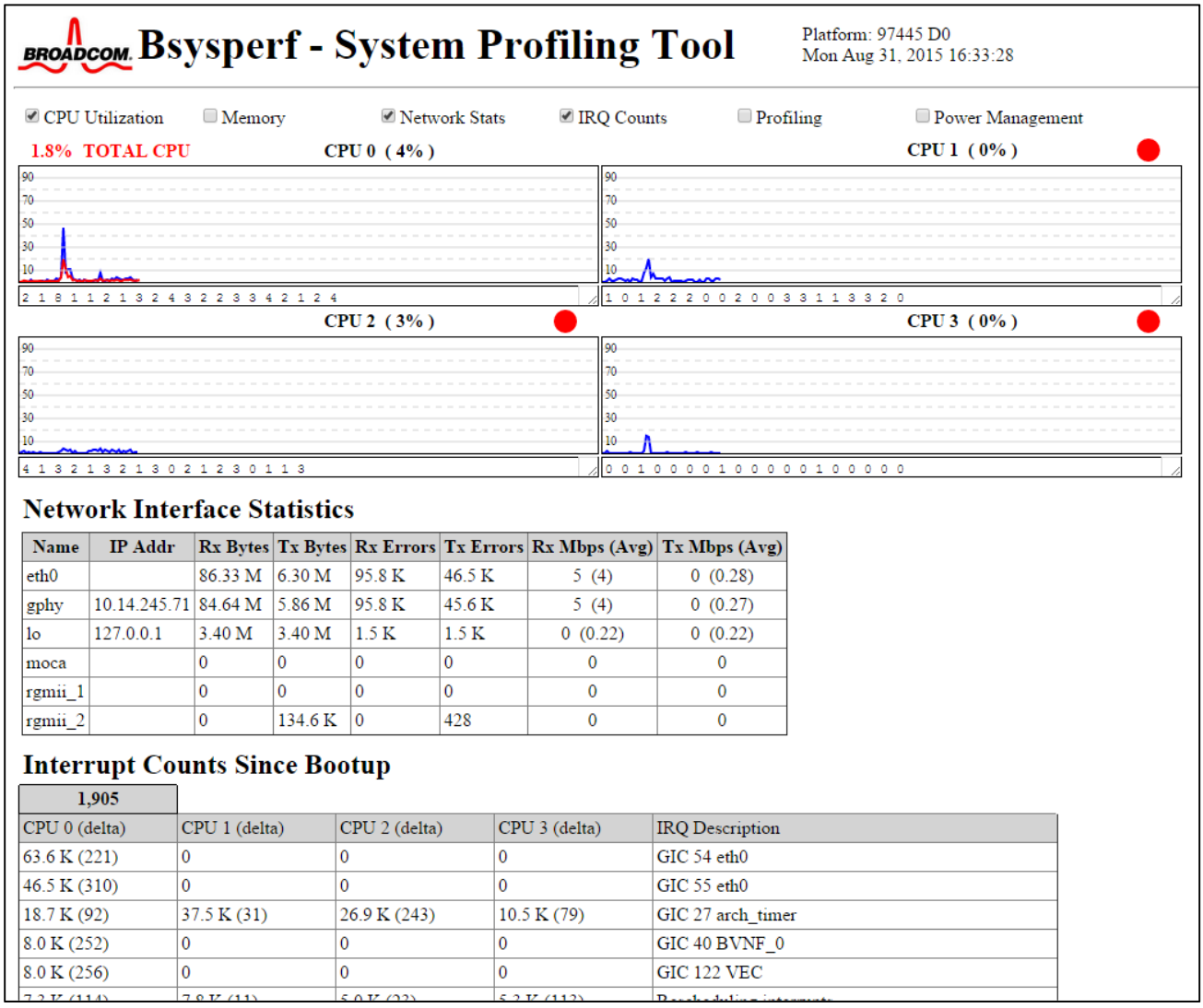
2. cd BSEAV/tools/bsysperf
3. make (this builds both bsysperf and boa)

How to Run:

1. On the stb:
    a. #cd ../nexus/bin
    b. #boa
    c. Make note of IP address printed by the script
2. On a PC or laptop on the same network as the STB, open a browser (Chrome, Firefox, Safari, etc.) and type the STB's IP address as output from step 1 above
    a. Click on the **bsysperf.html** link

Sample Screen Captures

The following are some sample screen captures to demonstrate some of the features of the tool:



Name	IP Addr	Rx Bytes	Tx Bytes	Rx Errors	Tx Errors	Rx Mbps (Avg)	Tx Mbps (Avg)
eth0		86.33 M	6.30 M	95.8 K	46.5 K	5 (4)	0 (0.28)
gphy	10.14.245.71	84.64 M	5.86 M	95.8 K	45.6 K	5 (4)	0 (0.27)
lo	127.0.0.1	3.40 M	3.40 M	1.5 K	1.5 K	0 (0.22)	0 (0.22)
moca		0	0	0	0	0	0
rgmii_1		0	0	0	0	0	0
rgmii_2		0	134.6 K	0	428	0	0

Figure 1 - CPU Utilization, Network Statistics, Interrupts

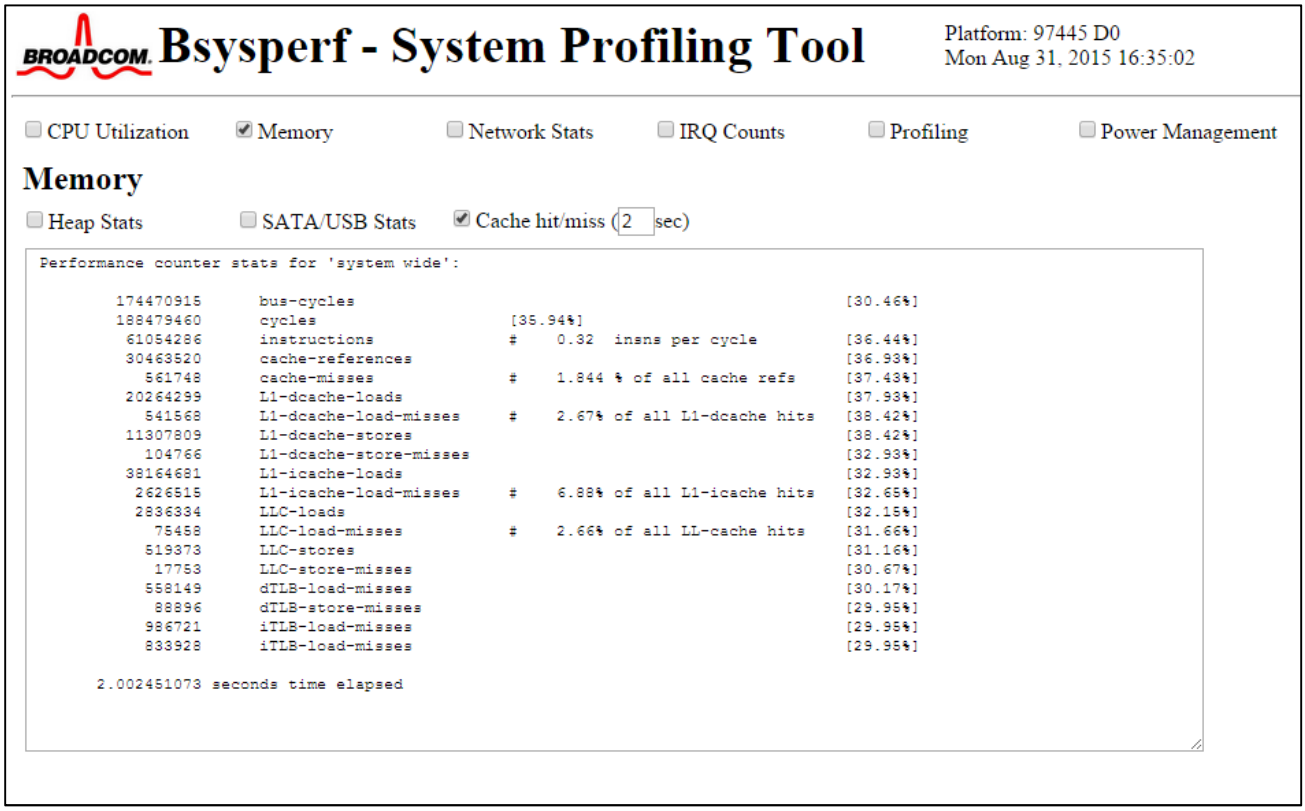


Figure 2 - Memory Cache Hit/Miss

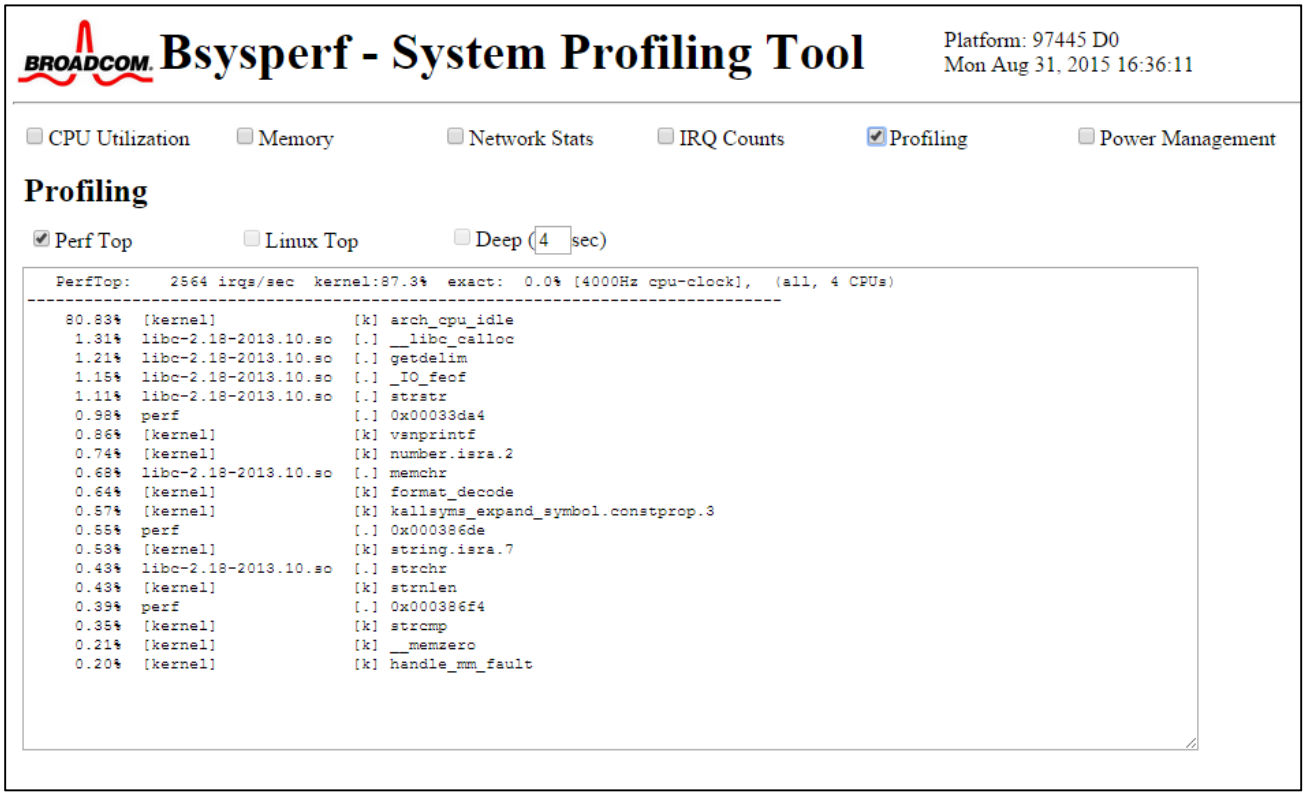


Figure 3 - Perf Top Example

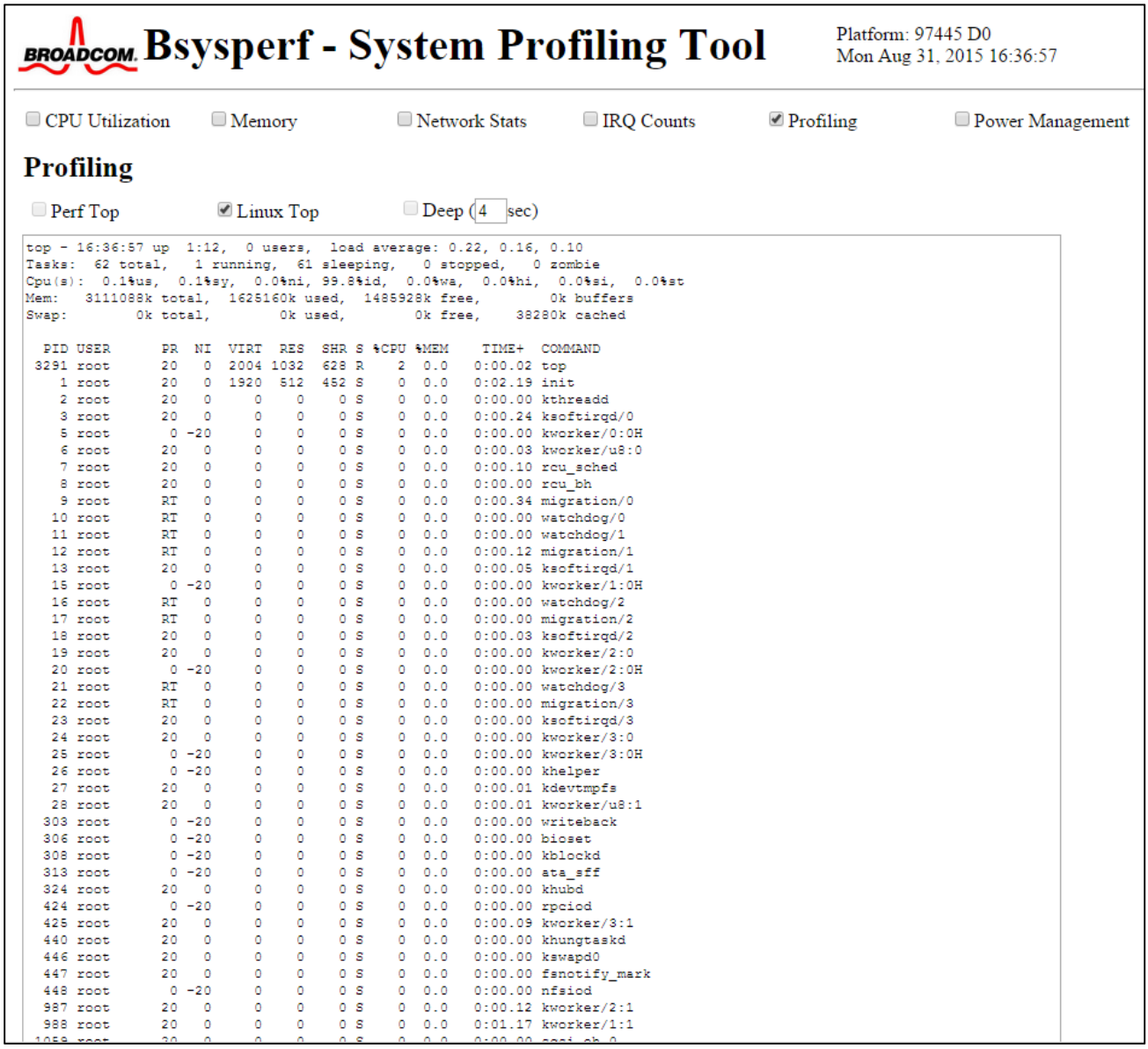


Figure 4 - Profiling: Linux Top Example

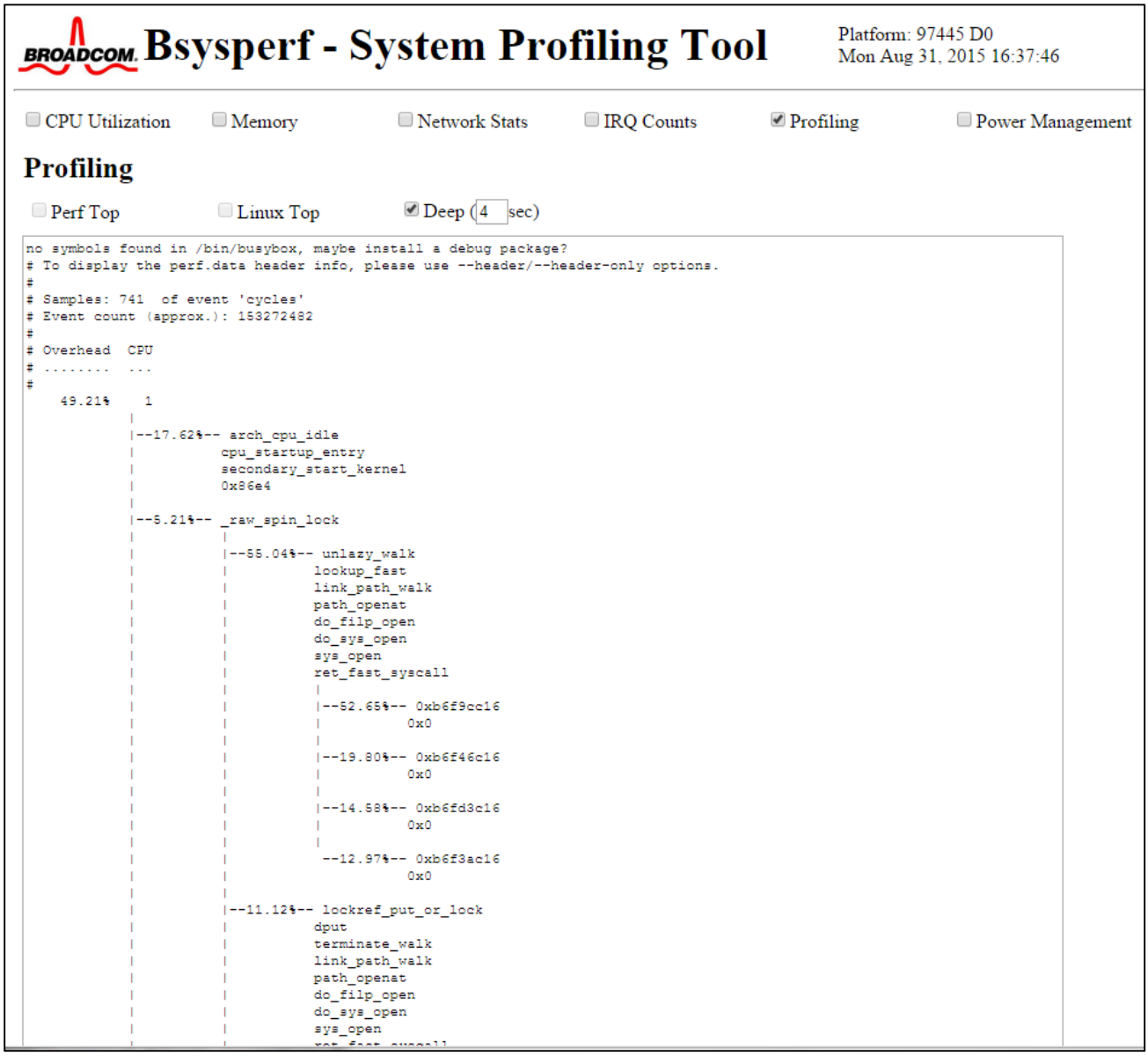


Figure 5 - Profiling: Deep Analysis