
E-Detective System Diagnostic CD User Manual

定興實業有限公司
Decision Computer International Co., Ltd.



Table of Content

I. DIAGNOSTIC CD INTRODUCTION	2
II. E-DETECTIVE SYSTEM INSTALLATION MINIMUM REQUIREMENT	2
III. SYSTEM CHECK PROCESS	2
STEP 1. SET BOOT SEQUENCE	2
STEP 2. SYSTEM BOOT MODE	2
STEP 3. PROGRAM EXECUTION.....	3
STEP 4. CPU SPECIFICATION/INFORMATION	3
STEP 5. OTHER HARDWARE SPECIFICATIONS.....	4
STEP 6. TRAFFIC THROUGHPUT	5
STEP 7. SUMMARY REPORT.....	6
STEP 8. SOME SUGGESTION	7
STEP 9. SYSTEM REBOOT	7

I. Diagnostic CD Introduction

E-Detective System Diagnostic CD main objective is to provide benchmark test/check on the server/hardware that user would like to install E-Detective software in order to know whether the server/hardware has met the minimum specifications requirement. The benchmark test/check includes CPU, Memory RAM, Hard Disk Read Speed, Network Throughput etc. to ensure that E-Detective software can successfully install in this server/hardware.

II. E-Detective System Installation Minimum Requirement

- CPU : At least x86 Series 800 MHz and above
- MEMORY RAM : At least 1 GB and above
- Hard Disk Space : At least 40 GB and above

III. System Check Process

Step 1. Set Boot Sequence

Choose and set to boot the system from CD ROM (priority 1). Then insert Diagnostics CD into the CD ROM and reboot the server.

Step 2. System Boot Mode

```
Type "normal" to boot with normal mode
      "noacpi" to boot without acpi mode
```

Press **[Enter]** to use **normal mode** to start the benchmark test/check procedure. If the system cannot startup properly using **normal mode**, please restart the machine and select **noacpi** to use **noacpi mode** for the checking process. "**noacpi mode**" provides the system to startup for some hardware that do not support Advanced Configuration and Power Interface.

Step 3. Program Execution

```
=====
===== Welcome To E-Detective Diagnostic Tool =====
=====
Start to test your hardware? (y/n)
```

After the system has started up, it will begin the process to test the hardware, please input 'y' and press **[Enter]** to start the test.

Step 4. CPU Specification/Information

```
= CPU Specification =====
Intel(R) Core(TM)2 Duo CPU T7100 @ 1.80GHz
= CPU Speed =====
1795.612 MHz
= CPU Cache =====
2048 KB
= CPU Temperature =====
51 C
= CPU Benchmark =====
Do you want to start CPU performance test (It will take few minutes)? (y/n)
```

Input 'y' and press **[Enter]** to perform CPU performance test. This CPU test will some times to be completed. This CPU test will affect the overall benchmark result.

Step 5. Other Hardware Specifications

```
= Memory Size =====  
0.86 GB (this may be shared with other hardware)  
= Disk Information =====  
Seagate ST380011A /dev/hda 74GB  
= Hard Disk Read/Write Performance =====  
/dev/hda:53.30 MB/sec  
= CDROM Information =====  
CD-ROM0  
BENQ DVD DC EW200G  
= Network Card Information =====  
eth0  
82566MM Gigabit Network Connection Intel Corporation 1GB/s  
= Number of Serial Port =====  
0  
= Fan Rotation =====  
FAN1 3723 RPM
```

This page will display the hardware information which includes Memory/RAM size, Hard Disk Information, Hard Disk Read/Write Performance (Speed), CDROM Information, Network Card Information, Number of Serial Port, Fan Rotation Speed etc.

Step 6. Traffic Throughput

```
=Traffic throughput=====
Do you want to check the traffic throughput of your network? (y/n)
```

Input 'y' and press **[Enter]** to start to check on the traffic throughout of your network. Please select which network card (NIC) interface to test. Please ensure that this NIC interface (ex: eth1) has been connected to the captured/mirrored/SPAN port of your switch. The Diagnostic CD will test the network traffic throughput at that moment to ensure that this server can handle this amount of traffic throughput with E-Detective software installed.

```
Which network card you want to use for testing?
0. eth0
1. eth1

please choice the network card (0/1):
```

Network traffic throughput test duration is flexible to the user. If you would like to stop the traffic throughput test, press **[Enter]** and the traffic throughput results will be displayed.

Step 7. Summary Report

```
=Summary report=====
Do you want to get summary report? (y/n)
```

Input 'y' and press [Enter] to generate the following summary report.

```
CPU
  Specification : Intel(R) Core(TM)2 Duo CPU T7100 @ 1.80GHz
  Benchmark      : 53.48
Memory
  Size           : 0.86 GB
Hard Disk
  Quantity       : 1
  Total Size     : 160 GB
  Performance    :
    /dev/sda:43.83 MB/sec
  RAID           : Not use
CD-ROM
  BENQ DVD DC EW200G
Serial Port
  Quantity       : 0
Network card
  eth0: 82566MM Gigabit Network Connection Intel Corporation 1GB/s

Traffic throughput: 33 kbps
```

Step 8. Some Suggestion

```
= Suggestion for E-Detective Installation =====  
You must have 2 network cards at least for E-Detective installation  
This system can service the capture capacity: users < 50, network throughput < 10Mbps
```

This portion will display the items that the user needs to take note of in order to ensure that the server meet the requirements of E-Detective software installation and implementation. It provides suggestion on the capture capacity of the system. Please adjust by adding in the requirement hardware as specified.

Step 9. System Reboot

```
Reboot system now ? (y/n)
```

Input 'y' and press **[Enter]** to reboot the system.

```
Please remove the disc and close the tray ( if any ) then press ENTER:
```

If you see the notes above, please remove the CD from the CDROM and press **[Enter]** to continue the reboot process.