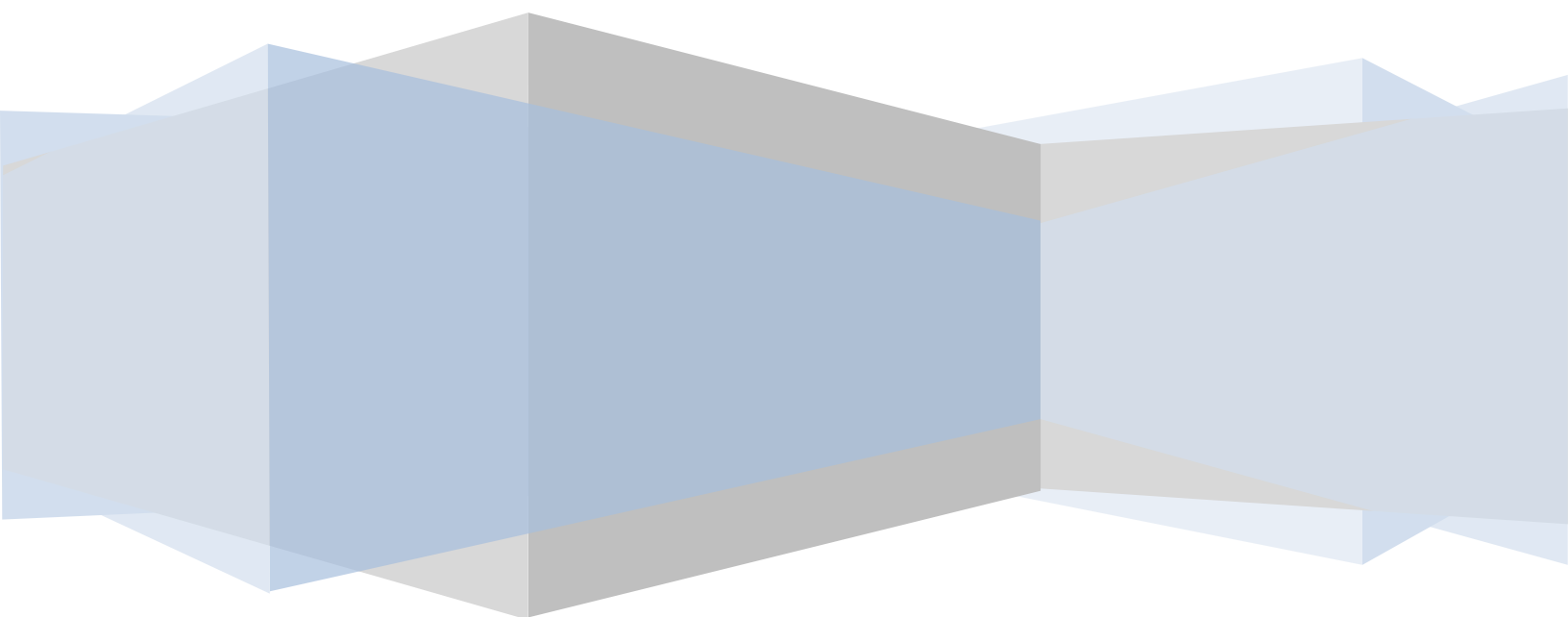


Comparative Test Report of Anti-Malware Programs

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Comparative Testing between Products:

- IObit Security 360 v1.01 def:1218
- AVG Anti-Virus Free Edition v8.5.392 db 270.14.5/2419
- Avira AntiVir Personal - Free v9.0.0.407 def:7.01.06.83
- Avast! Antivirus Home Edition v4.8.1335. file version-091007-0
- Advanced System Protector v2.0.323.1979 db 256

System Configuration:

Host Computer Environment:

Operating System : Windows Vista Ultimate SP1 (32 bit)
Processor : Intel Core2 6300 @ 1.86 GHz
Memory : 4 GB
Hard Disk : 500 GB

Test Virtual Machine Environment:

VMWare Version : VMWare Workstation 6.5
Operating System : Windows XP SP3
Memory : 1 GB
Hard Disk : 12 GB

Software Installed on a fresh Virtual Machine:

- .Net Framework v2.0
- .Net Framework v3.5
- Java Runtime Environment v6
- Firefox v3.1
- Internet Explorer v7
- WinRAR v3.71

Test Objective:

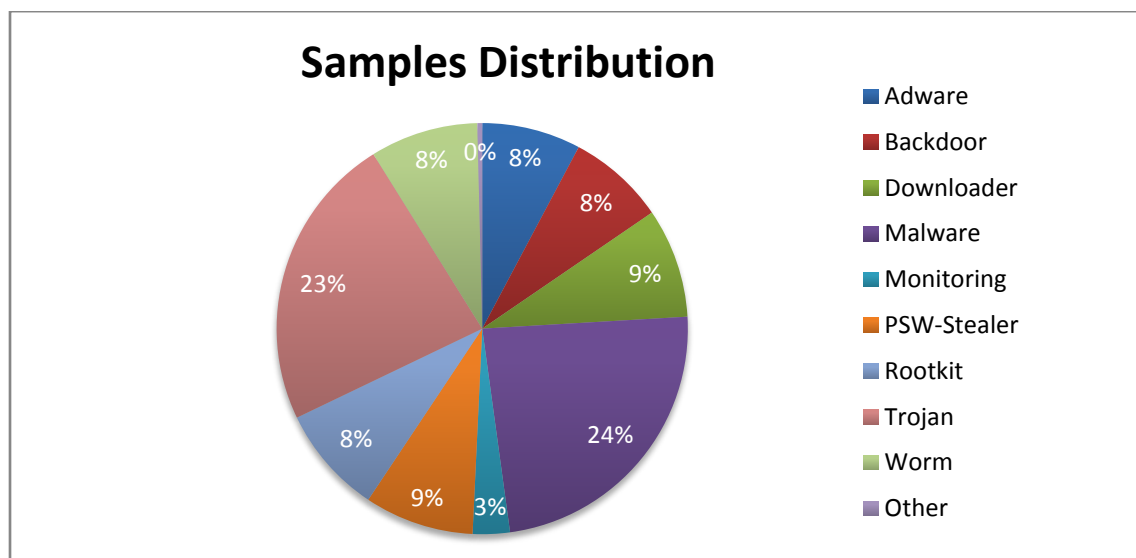
- Compare anti-malware full-scan detections
- Compare time consumption during installation and database update
- Compare system resource utilization

Test Method:

- I performed the test on a total of 5799 malware samples. No sample was installed, so the test machine didn't have any more infections.
- Test was conducted on a fresh virtual machine, with the above mentioned programs installed.
- All products under test were had the latest program update including the database update.
- All products were tested one at-a-time. The virtual machine was reverted to snapshot with spyware infection and then the product under test was installed and scanned.

Samples Distribution

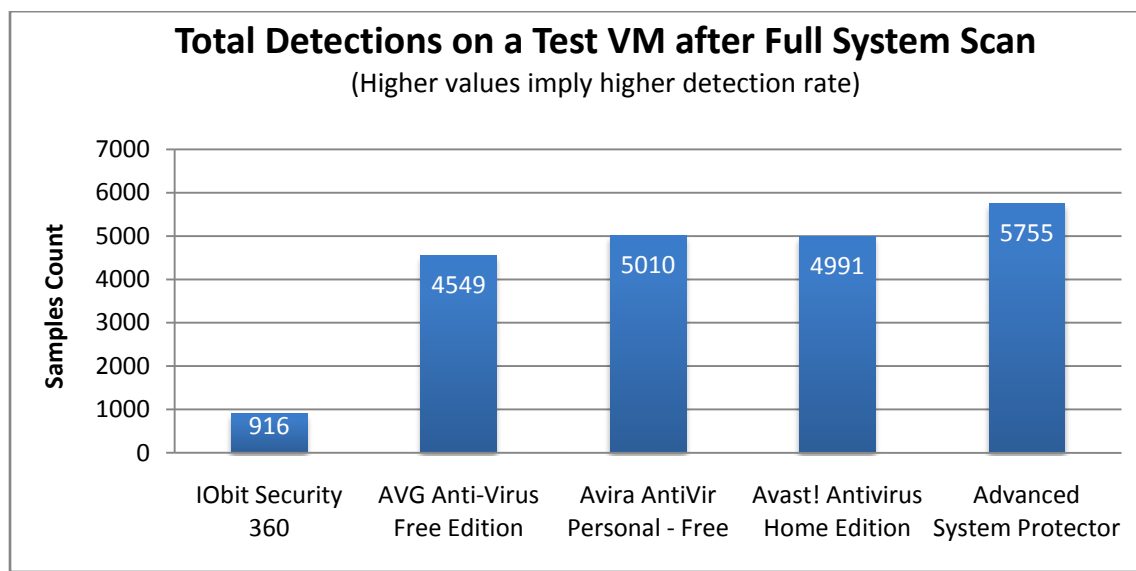
I have performed the comparison test on a total of 5799 malware samples. The category-wise distribution of samples is listed below in total count and also in their ratio.



Sample Category	Sample Count	Percentage
Adware	451	8%
Backdoor	445	8%
Downloader	500	9%
Malware	1378	24%
Monitoring	169	3%
PSW-Stealer	499	9%
Rootkit	494	9%
Trojan	1348	23%
Worm	493	9%
Others	22	0%
Total	5799	100%

Comparison: 1

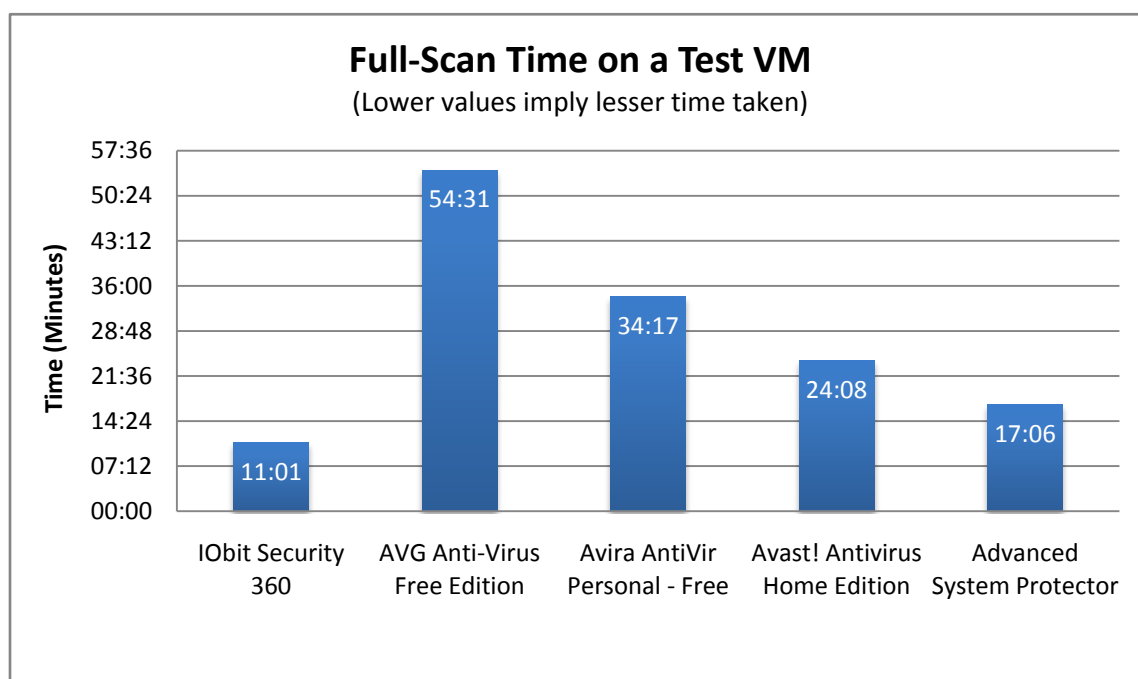
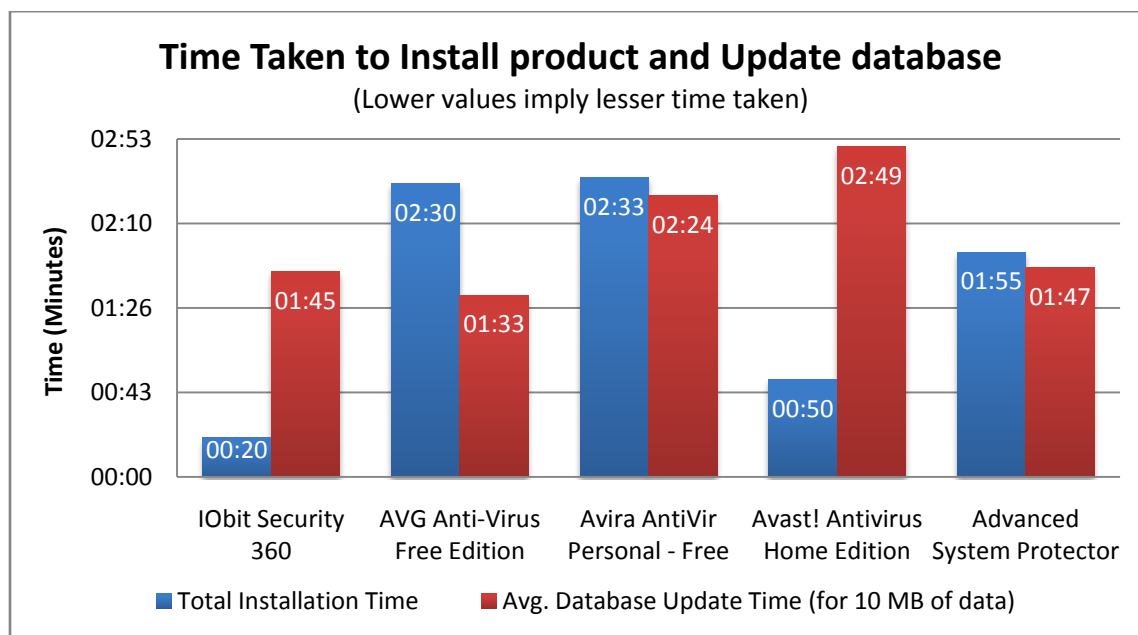
These charts show the total detection made by each of the Anti-Malware product in numbers and their respective detection rate.



Anti-Malware Products	Detections	
	Total Detections (Out of 5799 Samples)	Samples Detection Rate
IObit Security 360	916	15.80%
AVG Anti-Virus Free Edition	4549	78.44%
Avira AntiVir Personal - Free	5010	86.39%
Avast! Antivirus Home Edition	4991	86.07%
Advanced System Protector	5755	99.24%

Comparison: 2

These charts show the comparative time taken by each of the products to Install, Update and complete a Full-System Scan. It also includes an analysis report on the same.



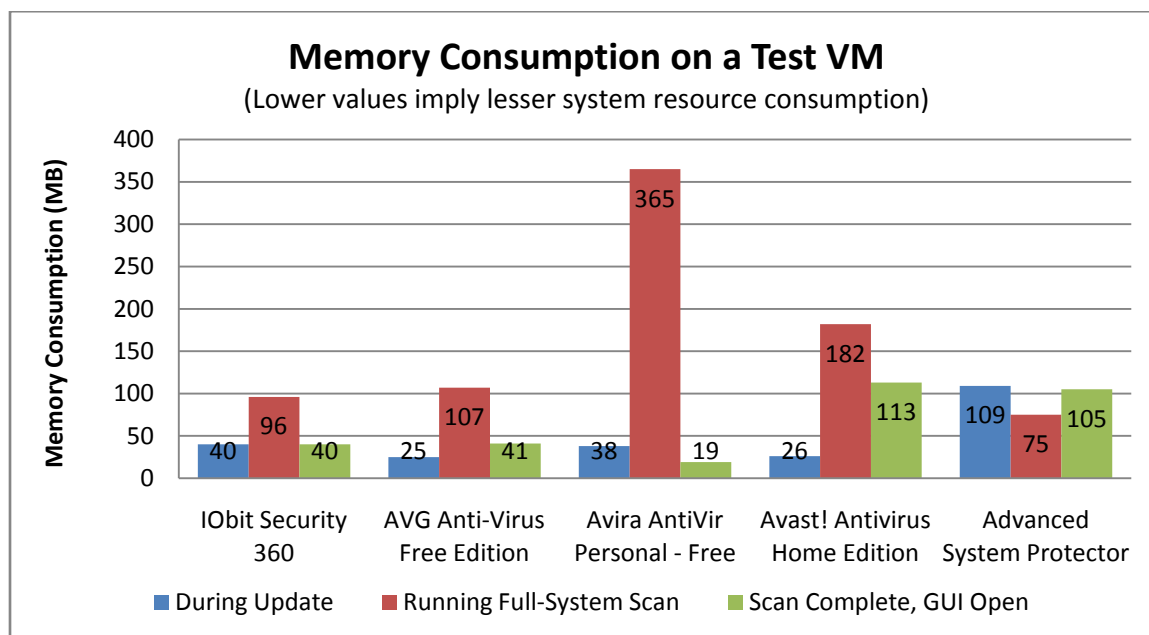
Anti-Malware Products	Time Consumption		
	Total Installation Time	Avg. Database Update Time (for 10 MB of data)	Full-Scan Time
IObit Security 360	Base Data	Base Data	Base Data
AVG Anti-Virus Free Edition	7.50 times	0.89 times	4.95 times
Avira AntiVir Personal - Free	7.65 times	1.37 times	3.11 times
Avast! Antivirus Home Edition	2.50 times	1.61 times	2.19 times
Advanced System Protector	5.75 times	1.02 times	1.55 times

Note:

I have taken IObit Security 360 values as the base data and assigned it the value 1 (One). The cell values in WHITE indicate that the respective products have taken X times more as compared to IObit Security 360 to complete the task while the cell values in RED indicate that the respective product has taken fraction-lesser time to complete the same job.

Comparison: 3

This chart shows the comparative memory consumed by each of the products while Updating the product, running Full-System Scan and after completion of the scan but the product still running and the interface being displayed. It also includes an analysis report on the same.



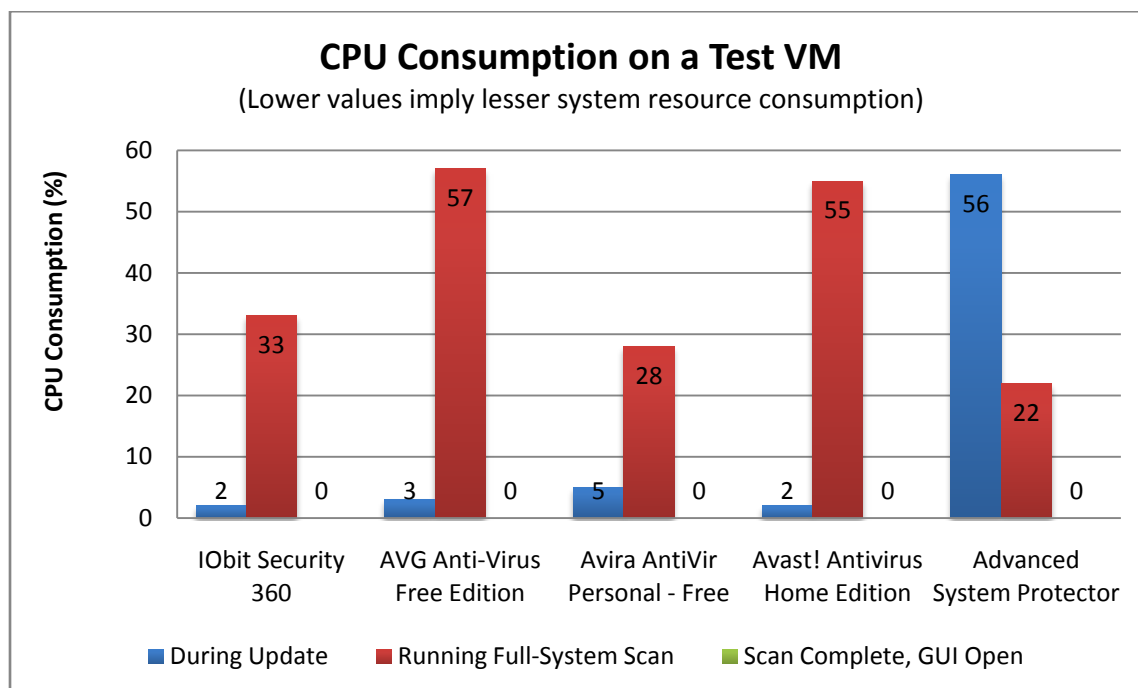
Anti-Malware Products	Memory Consumption		
	During Update	Running Full-System Scan	Scan Complete, GUI Open
IObit Security 360	Base Data	Base Data	Base Data
AVG Anti-Virus Free Edition	0.60 times	1.12 times	1.03 times
Avira AntiVir Personal - Free	0.95 times	3.80 times	0.48 times
Avast! Antivirus Home Edition	0.65 times	1.90 times	2.83 times
Advanced System Protector	2.73 times	0.78 times	2.63 times

Note:

I have taken IObit Security 360 values as the base data and assigned it the value 1 (One). The cell values in WHITE indicate that the respective products have taken X times more as compared to IObit Security 360 to complete the task while the cell values in RED indicate that the respective product has taken the fraction-lesser time to complete the same job.

Comparison: 4

This chart shows the comparative CPU consumed by each of the products while Updating the product, running Full-System Scan and after completion of the scan but the product still running and the interface being displayed. It also includes an analysis report on the same.



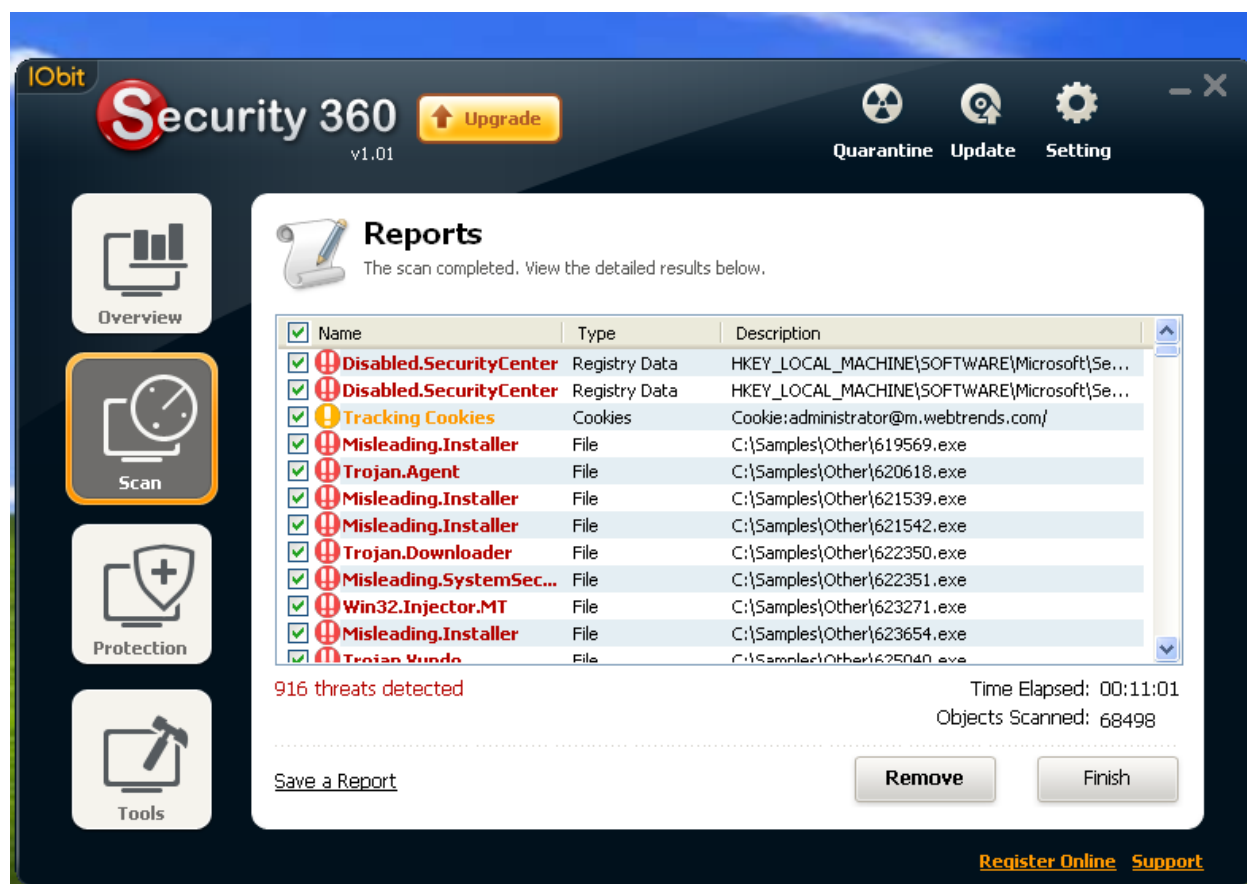
Anti-Malware Products	CPU Consumption		
	During Update	Running Full-System Scan	Scan Complete, GUI Open
IObit Security 360	Base Data	Base Data	Base Data
AVG Anti-Virus Free Edition	1.5 times	1.73 times	Same as IOBit
Avira AntiVir Personal - Free	2.5 times	0.85 times	Same as IOBit
Avast! Antivirus Home Edition	Same as IOBit	1.67 times	Same as IOBit
Advanced System Protector	28 times	0.67 times	Same as IOBit

Note:

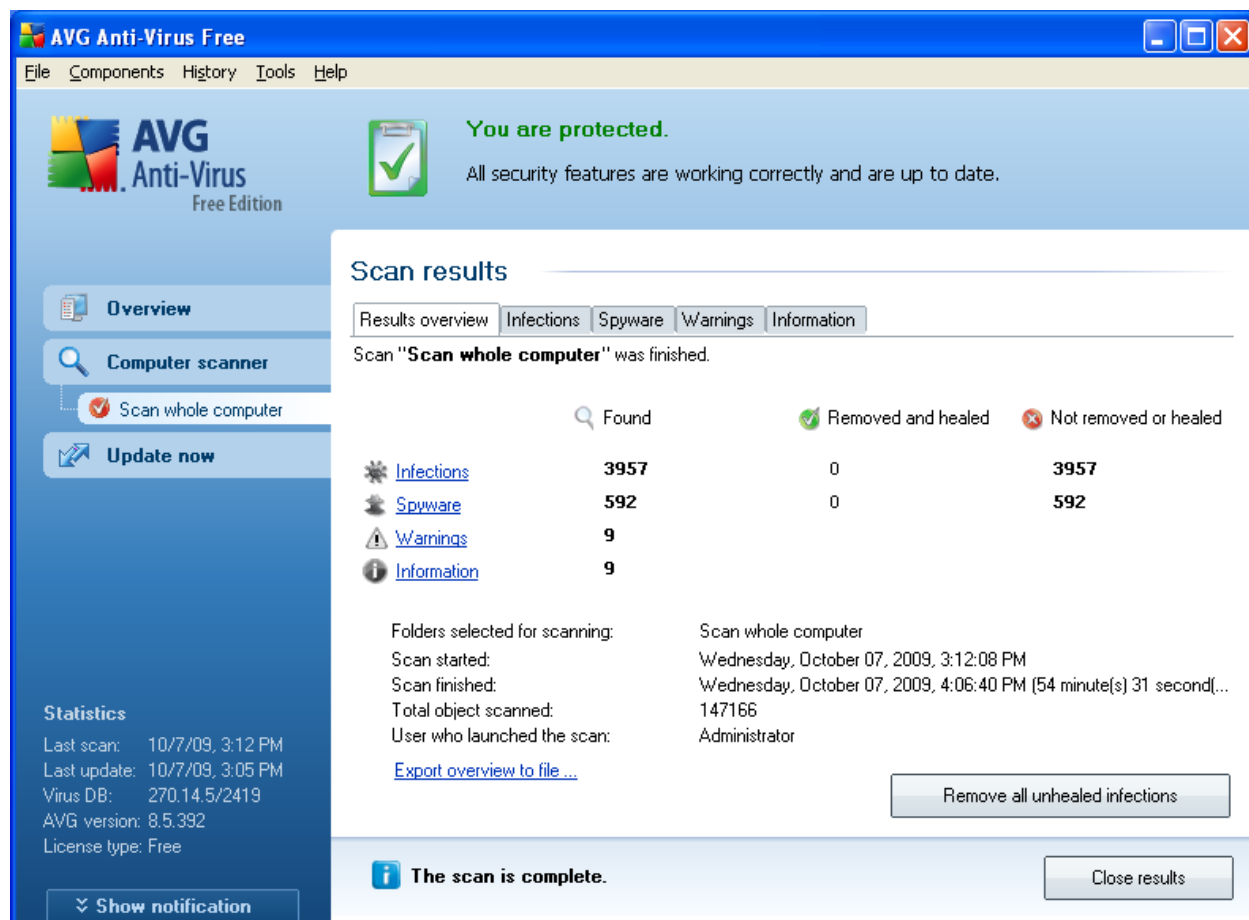
I have taken IObit Security 360 values as the base data and assigned it the value 1 (One). The cell values in WHITE indicate that the respective products have taken X times more as compared to IObit Security 360 to complete the task while the cell values in RED indicate that the respective product has taken the fraction-lesser time to complete the same job. The GREEN values indicate that the respective product has consumed CPU same as the IObit Security 360 to complete the said task.

Product Images : Full-System Scan Results

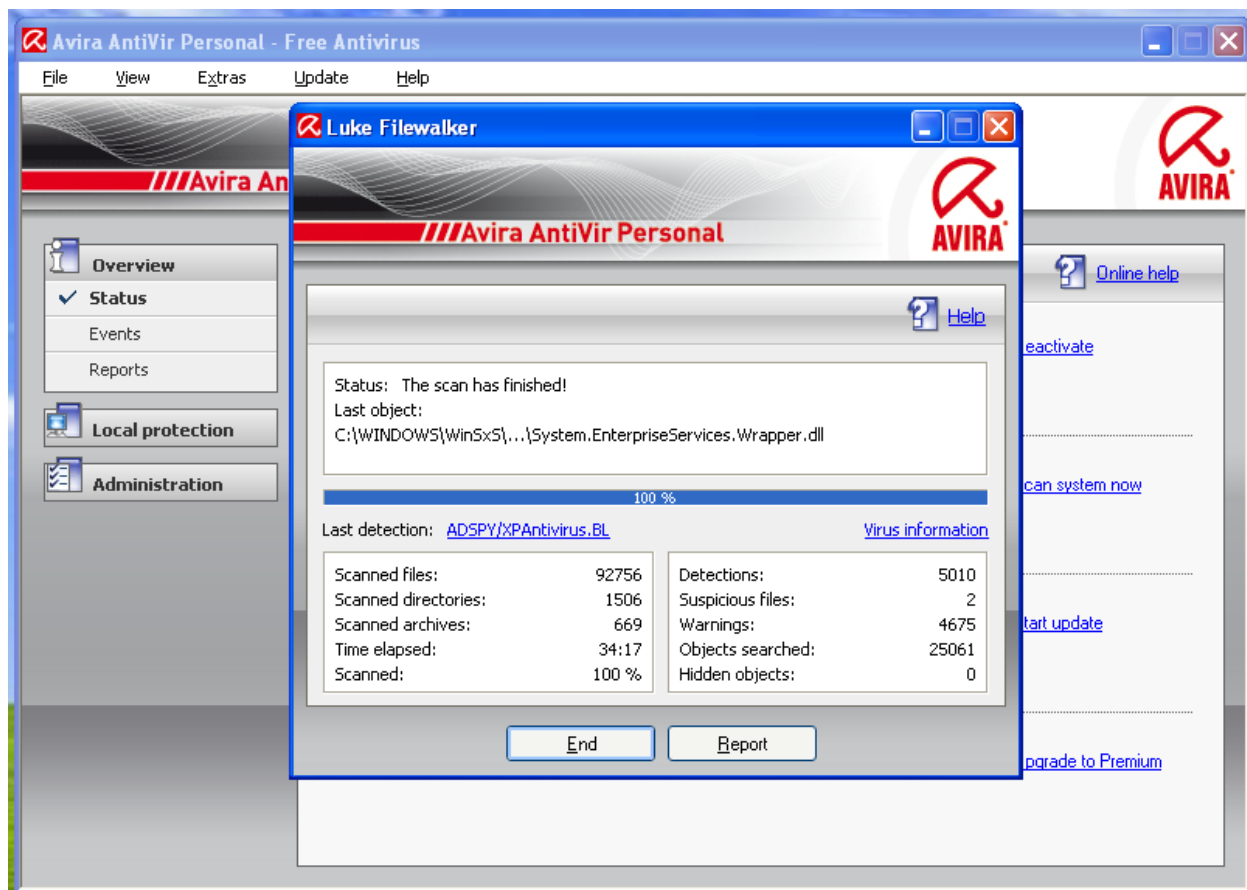
IObit Security 360 v1.01 def:1218



AVG Anti-Virus Free Edition v8.5.392 db 270.14.5/2419



Avira AntiVir Personal - Free v9.0.0.407 def:7.01.06.83



Avast! Antivirus Home Edition v4.8.1335. file version-091007-0



Advanced System Protector v2.0.323.1979 db 256

