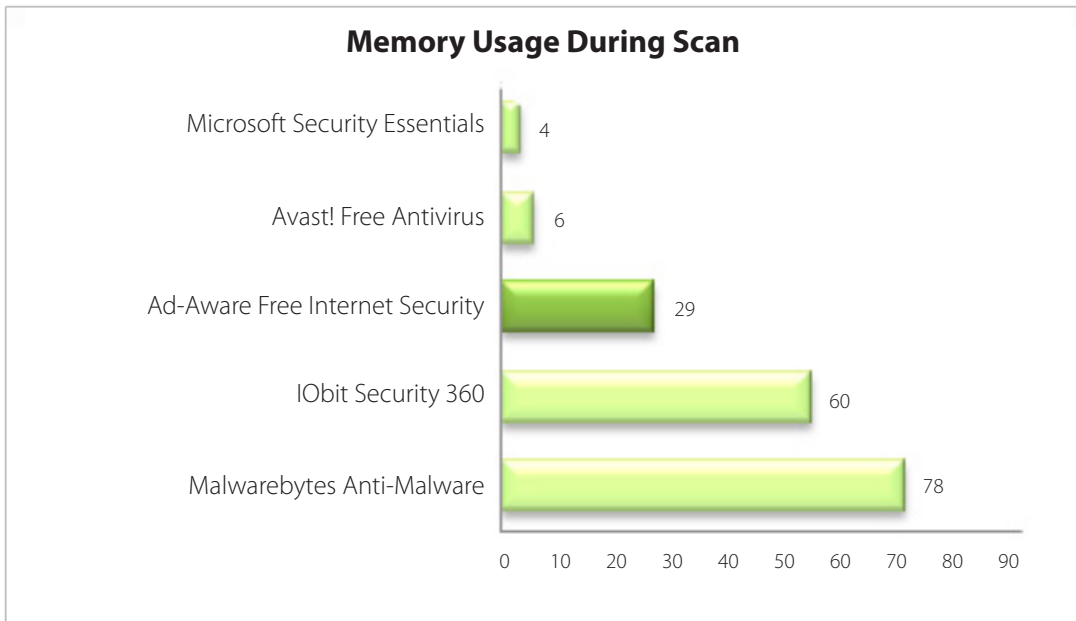# Ad-Aware

FREE INTERNET SECURITY
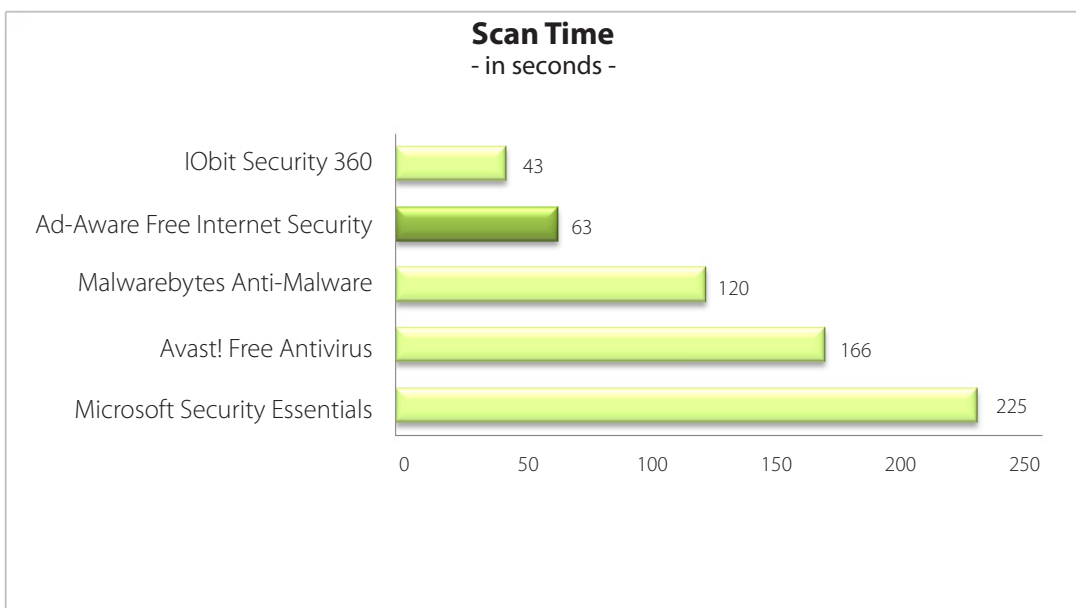
Performance and Clean-up Challenge

Free Security Products Performance Challenge

In June 2010, Lavasoft AB performed extensive research to gain understanding of the performance and amount of resources used by popular anti-virus/anti-spyware products on the market today. We know customers are looking for faster and lighter products, while still not compromising the security of their PC's. By focusing on core consumer needs, Ad-Aware provides advanced threat protection, and is significantly lighter and faster than our previous versions (and than many of our competitors.)

The charts below show the results of these tests. The test configuration and the specific versions of the software are listed after the graphs.

Memory Usage During Scan

Product	Value
Microsoft Security Essentials	4
Avast! Free Antivirus	6
Ad-Aware Free Internet Security	29
IObit Security 360	60
Malwarebytes Anti-Malware	78

Axis: 0 10 20 30 40 50 60 70 80 90

* Malwarebytes uses more than twice as much memory during scans than Ad-Aware Free.

Scan Time
- in seconds -

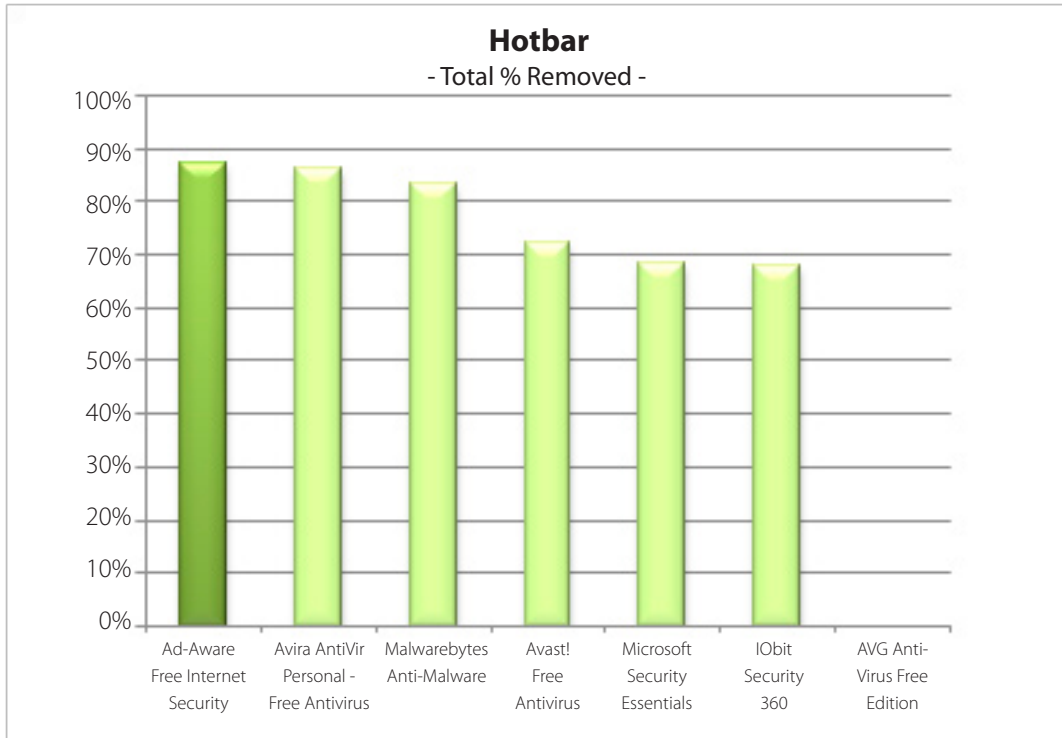| Product	Value
IObit Security 360	43
Ad-Aware Free Internet Security	63
Malwarebytes Anti-Malware	120
Avast! Free Antivirus	166
Microsoft Security Essentials	225

Axis: 0 50 100 150 200 250

* Microsoft Security Essentials takes almost 4 times longer to perform a scan than Ad-Aware Free.
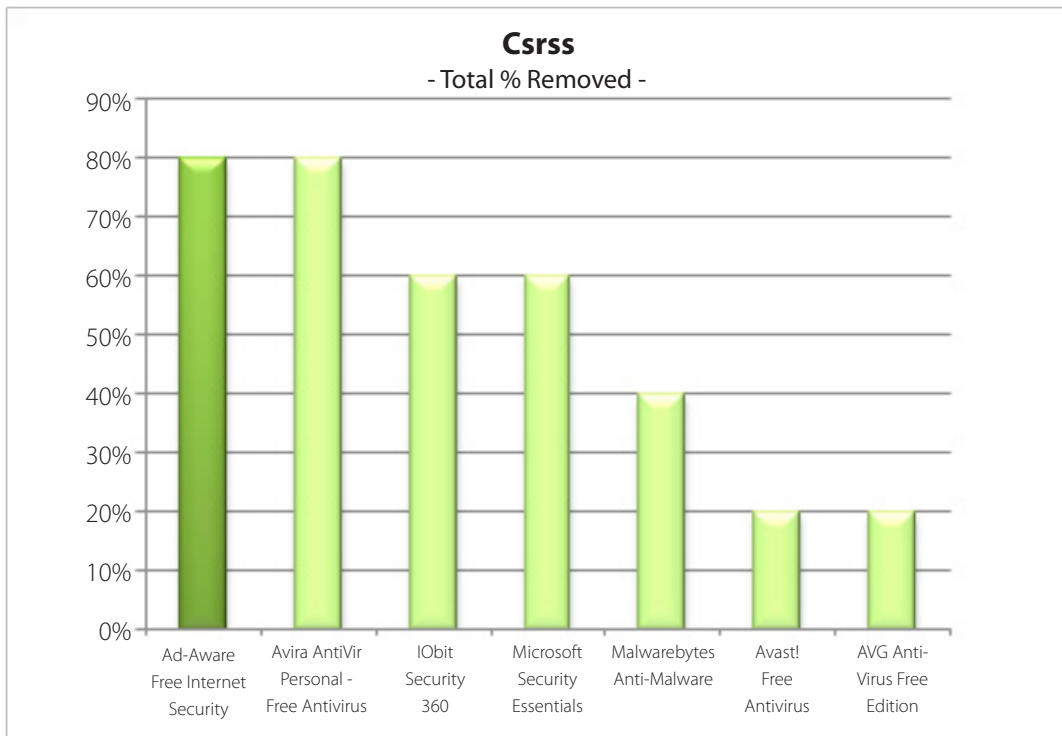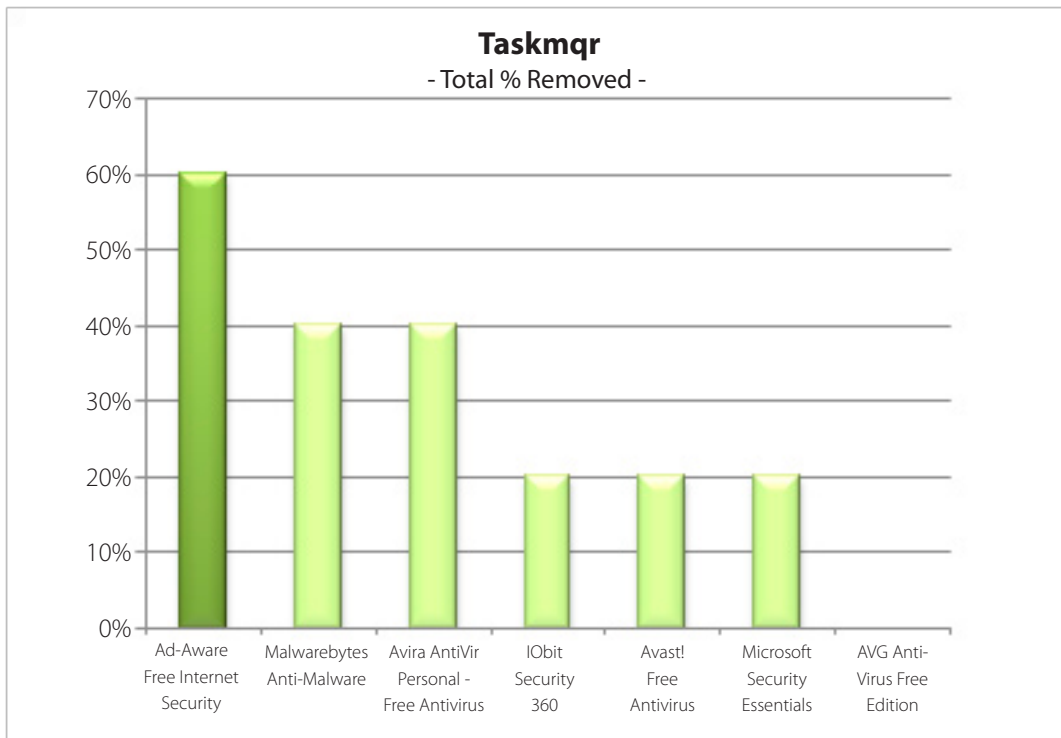
Clean-Up Comparison

In many cases, even after scanning and removing infections from your computer with anti-malware software, fragments of the infection are still left behind. Ad-Aware goes a step beyond simply detecting and removing malware; Ad-Aware intelligently cleans and rids yours system of harmful traces of the infection in order to restore your computer.

Below is a comparison between popular anti-virus/anti-spyware programs and their clean-up process of common infections. The test configuration and the specific versions of the software are listed after the graphs.

Hotbar
- Total % Removed -

Program	% Removed
Ad-Aware Free Internet Security	~87%
Avira AntiVir Personal - Free Antivirus	~86%
Malwarebytes Anti-Malware	~83%
Avast! Free Antivirus	~72%
Microsoft Security Essentials	~68%
IObit Security 360	~68%
AVG Anti-Virus Free Edition	0%

* Hotbar was not detected by AVG, thus the infection was not removed by these programs.

Csrss
- Total % Removed -

Program	% Removed
Ad-Aware Free Internet Security	80%
Avira AntiVir Personal - Free Antivirus	80%
IObit Security 360	60%
Microsoft Security Essentials	60%
Malwarebytes Anti-Malware	40%
Avast! Free Antivirus	20%
AVG Anti-Virus Free Edition	20%

Taskmqr
- Total % Removed -

* Taskmqr was not detected by AVG, thus the infection was not removed by this program.

Test System Details

Vista 32 bit
RAM 1GB
Hard Disk 16GB
Intel Core i7 2.67 GHz

Software Configuration

All products were updated with the latest available updates as of the date of test.

Ad-Aware Free Internet Security
Version 8.3

Avast! Free Antivirus
Version 5.0.507.0

AVG Anti-Virus Free Edition
Version 9.0.0

Avira AntiVir Personal – Free Antivirus version
Version 10.0.0.567

Iobit Security 360
Version 1.41

Microsoft Security Essentials
Version 1.0.1961

Malwarebytes Anti-Malware
Version 1.46