

Anti-Virus Comparative No.14

Proactive/retrospective test (on-demand detection of virus/malware)

contains also False positive test & Scanning speed test

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1. Introduction

This test report is the second part of the February 2007 test. The same products were used and the results show the pure proactive detection capabilities that the products had three months ago. Many new viruses and other types of malware appear every day, this is why it's important that Anti-Virus products not only provide new updates, as often and as fast as possible, in order to identify those new threats, but also that they are able to detect such threats in advance with generic and/or heuristic techniques. Without this ability the user has to wait for an updated release of the Anti-Virus product. Even if nowadays most anti-virus products provide daily or hourly updates, without heuristic/generic methods there is always a time-frame where the user is not protected, and much more important than time to release an update, is the time it takes to get that update deployed.

The same products, with the same best possible detection settings that the scan engines had in the last comparative, were used for this tests. For this test we used new samples¹ received between 2^{nd} February and 2^{nd} May 2007, which were all new to any tested product. The following 17 products were tested in this comparative (last signature updates and versions are from 2^{nd} February 2007):

- ✤ Avast! 4.7.942 Professional Edition
- ✤ AVG Anti-Malware 7.5.411
- ✤ AVIRA AntiVir Personal Edition Premium 7.03.01.34
- ✤ BitDefender Anti-Virus 10 Professional Plus
- Dr.Web Anti-Virus for Windows 95-XP 4.33.2
- eScan Anti-Virus 8.0.671.1
- ESET NOD32 Anti-Virus 2.70.23
- Fortinet FortiClient 3.0.308
- ✤ F-Prot Anti-Virus for Windows 6.0.5.1
- ✤ F-Secure Anti-Virus 2007 7.01.128
- ✤ Gdata AntiVirusKit (AVK) 17.0.6254
- ✤ Kaspersky Anti-Virus 6.0.2.614
- ✤ McAfee VirusScan 11.1.124
- Microsoft Live OneCare 1.5.1890.18
- ✤ Norman Virus Control 5.82
- Symantec Norton Anti-Virus 14.0.0.89
- TrustPort Antivirus Workstation 2.5.0.957

2. Description

Anti-Virus products often claim to have high proactive detection capabilities - far higher than those reached in this test. This isn't just a self-promotional statement; it's possible that products reach the stated percentages, but this depends on the duration of the test-period, the size of the sample set and the used samples. The data shows how good the proactive detection capabilities of the scanners were in detecting actual new/unknown threats. Users shouldn't be afraid if products have, in a retrospective test, low percentages. If the anti-virus software is always kept up-to-date, it will be able to detect most of the samples. For understanding how the detection rates of the Anti-Virus products look with updated signatures and programs, have a look at our regular on-demand detection tests. Only the on-demand detection capability was tested; some products may be had the ability to detect some samples e.g. onexecution or by other monitoring tools, like behaviour-blocker, etc.

¹ Typical Spyware, Adware, tools, etc. are not included.

3. <u>Test results</u>

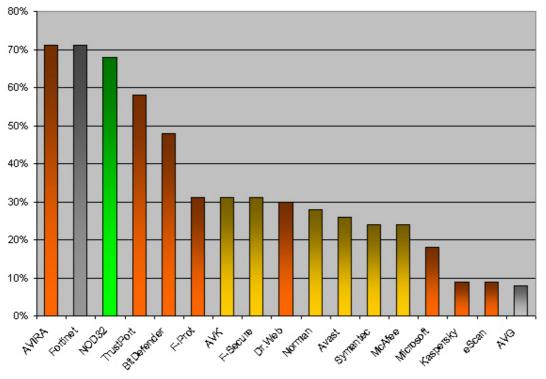
Below the detailed test result tables of all tested products:

Company		AVIRA		G DATA Security		Alwil Software		GriSoft	
Product		AntiVir PE Premium		AntiVirusKit	AntiVirusKit (AVK)		ssional	AVG Anti-Malware	
Program version		7.03.01.34		17.0.6254		4.7.942		7.5.441	
Engine / signature version		6.37.01.26		17.2423 / 17.1	24	0709-2		268.17.20 / 664	ŀ
Number of virus records		662.365		unknown		unknown		unknown	
Certification level reached*		STANDARD		ADVANCED	NCED ADVANCE				
Number of false positives*		many		few few		many			
On-demand scanning speed*		fast		slow		average		slow	
ProActive detection of "NEW"	samples**	1							
Windows viruses	255	162	64%	102	40%	84	33%	0	0%
Script malware	80	17	21%	6	8%	0	0%	0	0%
Worms	4.075	992	24%	295	7%	291	7%	0	0%
Backdoors	3.873	3.361	87%	2.876	74%	2.029	52%	878	23%
Trojans	11.966	9.967	83%	3.097	26%	2.990	25%	697	6%
other malware	260	129	50%	40	15%	39	15%	2	1%
OtherOS malware	13	0	0%	0	0%	0	0%	0	0%
TOTAL	20.522	14.628	71%	6.416	31%	5.433	26%	1.577	8%

Company		Softwin		Doctor Web		Fortinet		Frisk Software	,
Product		BitDefender Prof.+		Dr. Web		FortiClient		F-Prot Anti-Virus	
Program version		10		4.33.5.10110		3.0.308		6.0.5.1	
Engine / signature version		7.11190		4.33.2.10060		2.86 / 7.111		4.3.1	
Number of virus records		453.630		173.398		unknown		491.050	
Certification level reached*		STANDARD	STANDARD		STANDARD			STANDARD	
Number of false positives*		many many		very many		many			
On-demand scanning speed*		slow		slow		fast		average	
ProActive detection of "NEW" s	samples**								
Windows viruses	255	129	51%	40	16%	206	81%	104	41%
Script malware	80	7	9%	16	20%	0	0%	0	0%
Worms	4.075	401	10%	150	4%	3.478	85%	672	16%
Backdoors	3.873	2.492	64%	2.313	60%	2.715	70%	1.577	41%
Trojans	11.966	6.786	57%	3.610	30%	8.063	67%	3.868	32%
other malware	260	46	18%	28	11%	126	48%	81	31%
OtherOS malware	13	0	0%	0	0%	0	0%	0	0%
TOTAL	20.522	9.861	48%	6.157	30%	14.588	71%	6.302	31%

Company Product Program version Engine / signature version Number of virus records		F-Secure F-Secure Anti-Virus 7.01.128 7.00.12371 unknown		KasperskyLabs KasperskyAV 6.0.2.614 <i>N/A</i> 264.410		McAfee McAfee VirusScan 11.1.124 5100.0194 / 4955 225.413		Microsoft Microsoft OneCare 1.5.1890.18 1.15.2227.7 367.307	
Certification level reached*		ADVANCED		STANDARD		ADVANCED		STANDARD	
Number of false positives*		very few		very few		few		very few	
On-demand scanning speed*		slow		average		fast		fast	
ProActive detection of "NEW" s	of "NEW" samples**								
Windows viruses	255	66	26%	56	22%	132	52%	67	26%
Script malware	80	30	38%	6	8%	14	18%	1	1%
Worms	4.075	195	5%	16	0%	357	9%	253	6%
Backdoors	3.873	2.003	52%	1.356	35%	1.796	46%	1.375	36%
Trojans	11.966	4.011	34%	345	3%	2.616	22%	1.898	16%
other malware	260	20	8%	3	1%	60	23%	50	19%
OtherOS malware	13	0	0%	0	0%	0	0%	0	0%
TOTAL	20.522	6.325	31%	1.782	9%	4.975	24%	3.644	18%

Company		MicroWorld		ESET		Norman ASA		Symantec		AEC	
Product		eScan Anti-	Virus	NOD32 Anti-V	lirus	NormanVirus	Control	Norton Anti-Virus		TrustPort AV WS	
Program version		8.0.671.1		2.70.23		5.82		14.0.0.89		2.5.0.957	
Engine / signature ve	ersion	N/A		2.031		5.90.30		90202ai		N/A	
Number of virus reco	ords	unknown		unknown		654.451		73.132		unknown	
Certification level	Certification level reached* STANDARD ADVANCED+		ADVANCED		ADVANCED		STANDARD				
Number of false posi	itives*	very few		very few		few		none		many	
On-demand scanning speed*		average		fast		average		fast		slow	
ProActive detection	on of "NEW	"samples**									
Windows viruses	255	56	22%	134	53%	45	18%	71	28%	136	53%
Script malware	80	6	8%	6	8%	27	34%	4	5%	28	35%
Worms	4.075	16	0%	2.687	66%	193	5%	234	6%	498	12%
Backdoors	3.873	1.356	35%	2.884	74%	1.380	36%	3.160	82%	2.755	71%
Trojans	11.966	345	3%	8.210	69%	3.996	33%	1.432	12%	8.486	71%
other malware	260	3	1%	117	45%	18	7%	82	32%	57	22%
OtherOS malware	13	0	0%	0	0%	0	0%	0	0%	0	0%
TOTAL	20.522	1.782	9%	14.038	68%	5.659	28%	4.983	24%	11.960	58%



4. Summary results

The results show the pure proactive on-demand² detection capabilities of the scan engines. The percentages are rounded to the nearest whole number.

Do not take the results as an absolute assessment of quality - they just give an idea of who detected more, and who less, in this specific test. To know how these anti-virus products perform with updated signatures, please have a look at our on-demand tests of February and August.

Readers should take a look at the results and build an opinion based on their needs. All the tested products are already selected from a group of very good scanners and if used correctly and kept up-todate, users can feel safe with any of them. Read more in the previous February 2007 comparative.

Please also have a look on our methodology document for further details (<u>http://www.av-comparatives.org/seiten/ergebnisse/methodology.pdf</u>).

² this test is performed on-demand – it is NOT a realtime/on-access test

Below are the results obtained by each scanner in the various categories, sorted by detection rate:

(a) ProActive detection of new Backdoors, Trojans and other malware:

1.	AVIRA	84%
2.	NOD32, TrustPort	70%
3.	Fortinet	68%
4.	BitDefender	58%
5.	Dr.Web, AVK, F-Secure	37%
6.	Norman, F-Prot	34%
7.	Avast	31%
8.	Symantec	29%
9.	McAfee	28%
10.	Microsoft	21%
11.	eScan, Kaspersky	11%
12.	AVG	10%

(b) ProActive detection of new Worms, Windows, OtherOS and Script

viru	uses/malware:	
1.	Fortinet	84%
2.	NOD32	64%
3.	AVIRA	27%
4.	F-Prot	18%
5.	TrustPort	15%
6.	BitDefender	12%
7.	McAfee	11%
8.	Avast, AVK	98
9.	Microsoft, Symantec,	F-Secure 7%
10.	Norman	6%
11.	Dr.Web	5%
12.	eScan, Kaspersky	2%
13.	AVG	0%

(c) ProActive detection of all new samples used in the test:

2. NOD32 68	%
3. TrustPort 58	%
4. BitDefender 48	%
5. F-Prot, AVK, F-Secure 31	%
6. Dr.Web 30	%
7. Norman 28	%
8. Avast 26	%
9. Symantec, McAfee 24	%
10. Microsoft 18	%
11. Kaspersky, eScan 9	%
12. AVG 8	%

Please also have a look at the overviews that can be found on the website, to see how the scanners scored in this, and in past, tests. Always check for the latest data available on our website - the previous data of 6 months ago can now be considered outdated.

Note: AVK, eScan, F-Secure and TrustPort are multi-engine AV's.

5. False positive/alarm test

We provide in our retrospective test reports also a false alarm test, in order to better evaluate the quality of the proactive detection capabilities. This test also demonstrates that also with deactivated heuristics false alarms can occur.

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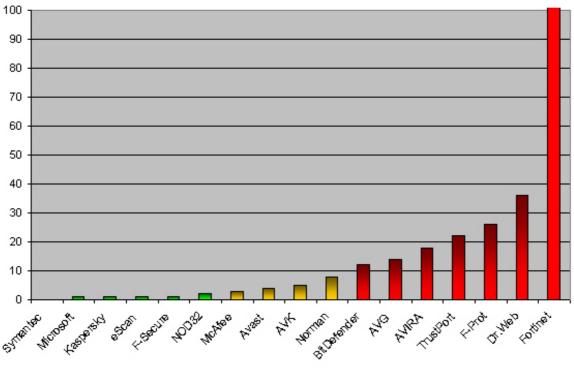
A false alarm (false positive) is when an Anti-Virus product flags an innocent file to be infected when it is not. False alarms can sometimes cause as much troubles like a real infection.

Number of false positives found³:

2.	Symantec Microsoft, Kas NOD32	spersky,	eScan,	F-Secur	0 re 1 2	none or very few FP's
5. 6.	McAfee Avast AVK Norman				3 4 5 8	few FP's
9. 10. 11. 12.	BitDefender AVG AVIRA TrustPort F-Prot Dr.Web				12 14 18 22 26 36	many FP's
14.	Fortinet			>	1000+	very many FP's

Products which have many FP's (false positives) can not gain the level award they would fall in, and will only receive the STANDARD award, as users can not rely on a heuristic that causes too many false alarms. Fortinet does not even deserve the STANDARD award due its very high number of false positives on heuristic scanning.

The graph below demonstrates the number of false positives by the various Anti-Virus products:



³ Lower is better

5.1 Details of the false positives detected

All listed false alarms were reported and sent to the Anti-Virus vendors and should now be already fixed. False alarms caused by unencrypted data blocks in Anti-Virus related files are not counted in this test. If a product caused severel false alarms in the same package, it is counted here as only 1 false alarm.

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Avast

False alarm found in some part(s) of	Detected as
Cubase package	Win32:Trojan-gen. {Other}
PDF Converter package	Win32:Trojan-gen. {VC}
StegHide package	Win32:Iroffer-055 [Trj]
TransMac package	Win32:Trojan-gen. {VC}

AVG

False alarm found in some part(s) ofNet4You package0190Warner packageBIOS Kompendium packageCubase packageDatawest Support packageDrWeb packageHide In Picture packageMB-Ruler packageOutlook Express DB Converter packageSenseConnect packageTiscaliProtect packageUSB-Tray package

Norman

False alarm found in some part(s) of 3D Screensaver package Bathc2Exe Converter package Cubase package IntelliHyperSpeed package iPod eBookMaker package JAP package Miranda package MS WindowsXP Patch package

Microsoft

False alarm found in some part(s) of
Reatogo package

F-Secure

False alarm found in some part(s) of Bitdefender package

Detected as

Heuristic.Win32.Dialer Heuristic.Win32.Dialer Logger.Ransom.a IRC/Backdoor.SdBot.183.BE I-Worm/VB.NC Trojan.QQShou.gq Downloader.Adload.do Dropper.Agent.BBF Backdoor.Delf.eg Trojan.CuteSpy Heuristic.Win32.Dialer Heuristic.Win32.Dialer Linux/Brundle.a Heuristic.Win32.Dialer

Detected as

Agent.AQJM W32/Zacryxof.A.dropper W32/SDBot.ABGE Agent.AQJN QQRob.UV W32/Hupigon.RPZ Zlob.UFS W32/Malware

Detected as TrojanDropper:Win32/Small.G

Detected as Monitor.Win32.PCAcme.61

AntiVir (AVIRA)

False alarm found in some part(s) of

Advanced Process Termination package Cubase package eBay Starter Kit package Hauppage package IPCop package IViewPCW package Kleptomania package MP3TAG package Norton Ghost package NVHardPage package PrestoDVD package Search & Replace package Simple File Shredder package SQLiteJournal package SystemVirginityVerifier package TIFLoesch package USB Mouserate Switcher package VS2000GUI package

Detected as

HEUR/Crypted WORM/SdBot.3478016 HEUR/Exploit.HTML DR/VirtualBouncer.R.3 HEUR/Exploit.HTML HEUR/Exploit.HTML HEUR/Malware HEUR/Exploit.HTML HEUR/Malware HEUR/Malware HEUR/Exploit.HTML HEUR/Crypted HEUR/Malware PHISH/EbayFraud.CS SPR/RootKit.G program HEUR/Exploit.HTML HEUR/Crypted HEUR/Malware

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BitDefender

False alarm found in some part(s) ofAudio Maestro packageBatch2Exe Converter packageCubase packageDatawest Support packageDatei Commander packageeScan packageOutlook packageRocketLife packageShipSimulator packageTippGenerator packageUSB Drive packageWormRadar package

Detected as

Trojan.Spy.Keylogger.JB Dropped:Trojan.Zacryxof.A Win32.Worm.Sdbot.CS Win32.Vimover.B@mm Trojan.Spy.Keylogger.JB BehavesLike:Win32.FileInfector Trojan.Cutespy.E BehavesLike:Trojan.Downloader BehavesLike:Win32.FileInfector Generic.Malware.dld!!.F623A0BA Dialer.1000.I Generic.XPL.IIS.0D4AAD53

NOD32 (ESET)

False alarm found in some part(s) of	Detected as
AOL2POP3 package	probably unknown NewHeur_PE virus [7]
EMIS package	probably unknown NewHeur_PE virus [7]

Symantec (NAV)

Symantec Norton Anti-Virus was again (for the third time) the only Anti-Virus product in this test which had no false positives. This is an indication of high quality assurance tests before the release of updates in order to avoid false positives.

Kaspersky

False alarm found in some part(s) of Bitdefender package

Detected as Monitor.Win32.PCAcme.61

McAfee

False alarm found in some part(s) of Kaspersky Anti-Virus package Miranda package ProtectEXE package

F-Prot

False alarm found in some part(s) of Detected as Airsnare package {no name} Babyflash package W32/Backdoor.VYJ (exact) CidSaver package W32/new_malware!Maximus Datawest Support package {no name} EMS Manager package {no name} FireTune package {no name} F-Secure AV package {no name} GameXP package {no name} IntelliHyperSpeed package {no name} Kaspersky AV package {no name} Kazaa package {no name} Leserbefragung package {no name} Miranda package {no name} MS Windows ME package {no name} MusicMatch package {no name} NeroDigital package {no name} PDF Annotator package {no name} PE Builder package {no name} Powerstrip package {no name} Proactive Security Auditor package {no name} QuickTime package {no name} Recorder package {no name} SafeXP package {no name} Schwarzbuch package {no name} SpywareFighter package {no name} WinRAR package {no name}

G DATA AVK 2007

False alarm found in some part(s) of	Dete
Bitdefender package	Monitor.Win32.PCAct
Cubase package	Win32:Trojan-gen.
PDF Converter package	Win32:Trojan-gen.
StegHide package	Win32:Iroffer-055
TransMac package	Win32:Trojan-gen.

TrustPort

False alarm found in some part(s) of 3D Screensaver package Audio Maestro package Batch2Exe Converter package BIOS Kompendium package Cubase package Datawest Support package Datei Commander package eScan package

ected as

me.61 $\{Other\}$ {VC} [Trj] {VC}

Detected as

Agent.AQJM Trojan.Spy.Keylogger.JB Dropped:Trojan.Zacryxof.A Logger.Ransom.a IRC/BackDoor.SdBot.183.BA I-Worm/VB.NC Trojan.Spy.Keylogger.JB BehavesLike:Win32.FileInfector

Detected as

Generic.du Puper.dr MultiDropper-JN

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Hide In Picture package IntelliHyperSpeed package iPod eBookMaker package JAP package Kindersicherung package MB-Ruler package MS WindowsXP Patch package Outlook package RocketLife package ShipSimulator package TippGenerator package WormRadar package Downloader.Adload.do Agent.AQJN QQRob.UV W32/Hupigon.RPZ Dropper.Agent.BBF Backdoor.Delf.ag Zlob.UFS W32/Malware Trojan.Cutespy BehavesLike:Trojan.Downloader BehavesLike:Win32.FileInfector Generic.Malware.dld!!.F623A0BA Linux/Brundle.A Generic.XPL.IIS.0D4AAD53

Detected as

Dr.Web

False alarm found in some part(s) of 2020 package ADVGrid package ASAP Utilities package AuktionBE package Auktionskalender package Bitdefender package CookeCooker package DiManager package eScan package FireMonitor package FixFoto package FreeDos package GoldMine package GPU package HDDVDJump package InstantCopy package Kaspersky package Kindersicherung package LANTool package MBSWinExpander package MS PowerPoint package NetIntelligence package OutlookHelpDesk package OutlookTools package ParentsFriend package PC SecurityTest package PDF Machine package PowerTuningXP package Registry Bearbeitung package Registry System Wizard package Samurize package Soviewim package Sygate package TrendMicro package Wintuning Kit package YabeOffice package

BACKDOOR.Trojan W32.Swaduk.6891 W97M.Iseng BACKDOOR.Trojan BACKDOOR.Trojan DLOADER.Trojan DLOADER.Trojan DLOADER.Trojan WIN.WORM.Virus Virus SCRIPT.Virus BATCH Virus DLOADER.Trojan DLOADER.Trojan Win32.HLLW.Dbot DLOADER.Trojan BINARYRES BACKDOOR.Trojan Trojan.DownLoader.10130 WIN.WORM.Virus SCRIPT.Virus WIN.WORM.Virus WIN.WORM.Virus WORM.Virus BACKDOOR.Trojan STPAGE.Trojan BACKDOOR.Trojan BackDoor.Generic.957 SCRIPT.BATCH.Virus SCRIPT.BATCH.Virus DLOADER.Trojan DLOADER.Trojan BACKDOOR.Trojan Trojan.DelSys.191 STPAGE.Trojan BACKDOOR.Trojan

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Fortinet

False alarm found in some part(s) of	Detected as
0190Warner package	Suspicious
12erSudoku package	Suspicious
1by1 package	Suspicious
1PASSWORD package	Suspicious
234-Gleiche package	Suspicious
3Com Driver package	Suspicious
3D FontTwister package	Suspicious
3D Mark package	Suspicious
3D UP15 package	PossibleThreat!06131
3DEigenheimplaner package	Suspicious
3D Muehle package	Suspicious
ACER RecoveryCD package	Suspicious
Acronis DiskDirector package	Suspicious
Acronis PartitionExpert package	Suspicious
Acronis TrueImage package	Suspicious
ActivAId package	Suspicious
Adobe Acrobat Reader package	JS/Feebs.A@mm
Adobe Photoshop package	Suspicious
Adorage package	Suspicious
AKarten package	Suspicious
Alarm für Cobra 11 package	Suspicious
alcohol120 package	Suspicious
alignit package	Suspicious
Allesšber package	Suspicious
AlligatorSQL package	Suspicious
AntiVirPEClassic7 package	Suspicious
anymate package	Suspicious
AOL Banking package	Suspicious
AOL9 package	Suspicious
APT package	Suspicious
AquaScreen package	Suspicious
Arbeitszeit package	Suspicious
Armobiles package	Suspicious
AstaroSecurityLinux6 package	Suspicious
ASUS A8V Driver package	Suspicious
ASUS DVD2000 package	Suspicious
ASUS V7700 Driver package	Suspicious
ASUS ViaChipset Driver package	Suspicious
ATI Catalyst Driver package	Suspicious
Auction Studio package	Suspicious
audacity package	Suspicious
Avast package	Suspicious Suspicious
AVG package	-
Backvoll package	Suspicious Suspicious
Batch2Exe_Converter package	-
Beacon package	Suspicious Suspicious
Bietassistent package	Suspicious
Bitdefender package	Suspicious
BlueFish Media package	Suspicious
buchdruck package	Suspicious
Bulk Rename package	Suspicious
Call of Duty Patch package	Suspicious
Canon Printer Driver package	11

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CDDVDBurning package CDex package CDSearch package CDStartUp package ClipBoardManager package CloneDVD2 package CMOS Password package ColorPilot package Computec Media package COMWIN package ConWat package cPicture package CPU-Z package CreateMovie package Creative SB Driver package Crystal Player package DAEMON Tools package DarkDesktop package Datawest Support package DaViDeo package DCOM98 package Depotverwalter package DIGICAMPRAXIS package DirectX package DNet Kit package DriveSitter package DrWeb CureIT package Duden package DVTool package EMIS package eScan package F-Secure AV package F-Secure IS package F.E.A.R package Fallobst_Arcade package FFDShow package FileZilla package Flash Player package FlasKMPEG package FLV Player package FotoMatchAll package FreePhone package FreeRAM package FTCheck package GDATA AVK package GMER package Google package Gigabyte Driver package Gothic 2 Add-on package Haushaltsbuch package HDiskDefrag package Heimwerkerlexikon package Heroglyph package HiJackThis package HP ScanJet Driver package

PossibleThreat!018918 Suspicious Suspicious Suspicious Suspicious Suspicious PossibleThreat Suspicious W32/Vimover@mm Suspicious Spy/Bancos Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious Spy/Zlob Suspicious Suspicious Suspicious Suspicious Suspicious PossibleThreat!021393 PossibleThreat!02931 Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious Suspicious

Suspicious

Stealth!tr

Suspicious

PossibleThreat

PossibleThreat

HyperCam package IceSword package Ice Age2 Drumkit package Ice Storm Fighters package IDA Pro package Image Optimizer package Jokemaker package JustCause package Kampf dem Terror package Kaspersky AV package Kaspersky IS package Kassenbuch package Kensington Driver package Kugeln2D package LottoFee package MagicGames package Matrox Driver package MaxMixFoto package McAfee Antispy package McAfee Firewall package McAfee Spamkiller package MediaPlayerClassic package Messenger package Microsoft ActiveSync package Microsoft Internet Explorer package Money 2000 package Mozilla Firefox package Mozilla Thunderbird package MS DigitalPersona Driver package MS Links package MS Windows 2000 Patches package MS Windows 2000 SP2 package MS Windows 95 package MS Windows 98 package MS Windows ME package MS Windows NT4 Patches package MS Windows XP Patches package MS Windows XP package MS BusinessContactManager package MS Encarta 2001 EnzyklopädiePlus package MS OfficeProfessional2001 package MS OfficeXP package MS Office Standard2003 package MS ServicesCD2003 package MS SicherheitsupdateCD2005 package MS VirtualPC5 package MS Windows2000 package MS WindowsXP Pro SP1 package MWTI AV package Nero Burning Rom package NewsBin package NOD32 package Norton Anti-Virus package Norton Internet Security package Norton Personal Firewall 2003 package

Suspicious

Norton System Works package Norton Utilities 3 package Notebook Hardware Control package NVIDIA Driver package 0&0 Defrag package OilTycoon package OmniPage package OpenOffice package OpenSourceGames 2 package Opera package Outpost Pro package Paint Shop Pro package PDF-Fotoalbum package PDFCreator package PE Builder package PerfWatch package Phoner package PhotoFlash package Picasa package Planet-Interkom package PodTools package Poker package Pop-Up Stopper package Portable Apps package PortRoyaleGold package PowerArchiver2000 package PowerClick package Profan package Quake 4 Patch package QuickDic package QuickTime package Quiztime package QuoteFix package Raetsel package RAMster package RegCool package Registry Cleaner package Rizzoli Larousse 2002 package RootKit Revealer package Roter Baron3 package S.T.A.L.K.E.R. package SAD-Vorlagen package Samsung Driver package Samurai package Serious Sam Patch package Sicherheitscheck-CD package Simply Zip package Sleepy package SMS SUS package Sophos Anti-Rootkit package SpamPal package SpeedCommander package Spiegel Spezial package Splinter Cell Patch package SPSS10 package

Suspicious W32/VB.AQS!tr.dldr Suspicious Suspicious Suspicious Suspicious Suspicious Demo1.1698 Suspicious SPY/LdPinch Suspicious Suspicious Suspicious Suspicious

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Stinger package	Suspicious
Sygate package	Suspicious
Symantec Business package	Suspicious
T-Mobile Communication Center package	Suspicious
Telefonbuch Deutschland package	Suspicious
The Sims 2 University Patch package	Suspicious
ThrottleWatch package	Suspicious
Tischkicker package	Suspicious
Titan Quest Patch package	Suspicious
ToolBook II package	Suspicious
TrackWinstall package	Suspicious
Traktor Racer package	Suspicious
TransMac package	W32/AgoBot.AFZ!tr.bdr
TrendMicro CD package	Keylog/Quick
TrendMicro IS package	Suspicious
TrendMicro PC-cillin package	Suspicious
TruPrevent package	Suspicious
TuneUp Utilities package	Suspicious
TweakPower package	Suspicious
TweakXP Pro package	W32/Rbot.BRY!tr.bdr
UMRS package	Suspicious
UPACK compression tool package	Suspicious
VirtualCloneDrive package	Suspicious
VirtualDub package	Suspicious
Vokabel package	Suspicious
WaveRecorder package	Suspicious
WBloggar package	Suspicious
WinAAM package	Suspicious
WinAce package	Suspicious
WinAmp package	Suspicious
WinChecker package	Suspicious
WinDVD package	Suspicious
WinHintergrundManager package	Suspicious
WinRAR package	W32/Banload.AMS!tr.dldr
WinZip package	Suspicious
WISO MeinGeld package	Suspicious
WMS Weltreise package	Suspicious
XNote Stopwatch package	Suspicious
XP AntiSpy package	Suspicious
Xpage Internet Studio package	Suspicious
XPizeReloader package	Suspicious
ZoneAlarm package	Suspicious
ZoomPlayer package	Suspicious

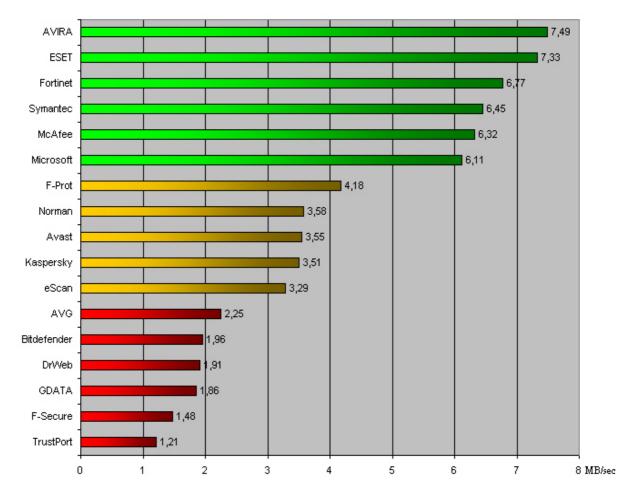
Fortinet had thousands of false alarms in our set of clean files. For space reasons, we list here "only" about 250 false alarms. Due this never seen before amount of false alarms caused by Fortinet heuristic, we decided together with Fortinet to disable the heuristic scanning from Fortinet in future tests until the false alarm rate drops to an acceptable level. Otherwise it will have to be excluded from future testings. Such a heuristic does not make sense in a home user product - AV-Comparatives recommends to Fortinet users to disable the heuristic scanning in FortiClient.

6. Scanning speed test

Some scanners may be slower than others due various reasons. It has to be taken in account how reliable the detection rate of an Anti-Anti-Virus Virus is; if the product will detects difficult (emulation: polymorphic viruses some Anti-Virus vendors do not include detection for some difficult polymorphic viruses in their products to avoid performance problems with their engine), deep heuristic scan analysis, unpacking and un-archiving support, hardware used, etc.

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The following graph shows the throughput rate in MB/sec (higher is faster) of the various Anti-Virus products when scanning (on-demand) our whole clean files set (used for the false alarm testing). The scanning throughput rate will vary based on the set of clean files⁴ and the settings in the product⁵.



The average scanning throughput rate (scan speed) is calculated by size of clean-set in MB's divided by time needed to finish the scan in seconds. The scanning throughput rate of this test can not be compared with future tests or with other tests, as it varies from the set of files used etc.

The scanning speed tests were done under Windows XP SP2, on a PC with Intel Pentium 4 HT 2.8 GHz, ASUS P4C800, 512 MB RAM and without network connection.

⁴ to know how fast the various products would be on your PC at scanning *your* files, try yourself the products

⁵ we used the best possible detection settings

7. Certification levels reached in this test

We provide a 3-level-ranking-system (STANDARD, ADVANCED and ADVANCED+). Overviews of levels reached in past can be found on our website (<u>http://www.av-comparatives.org/seiten/overview.html</u>). The following certification levels are for the results reached in the retrospective test:

CERTIFICATION LEVELS	(in alphabetical order)
ADVANCED+ comparatives May 07 proactive/retrospective test	NOD32
ADVANCED ADVANCED ADVANCED May 07 proactive/retrospective test	AVK Avast F-Secure McAfee Norman Symantec
Comparatives proactive/retrospective test	AVIRA* BitDefender* Dr.Web* eScan F-Prot* Kaspersky Microsoft TrustPort*
no certification	AVG** Fortinet**

* : Products with a high rate of false alarms do not deserve the proactive detection level they would fall in. They get penalized and receive only the STANDARD award (i.e. AVIRA, BitDefender, Dr.Web, F-Prot, TrustPort), as users can not rely on a heuristic that causes too many false alarms.

** : In case of Fortinet, the false alarm rate is that high, that it does not even deserve the STANDARD level.

In case of AVG, the proactive detection is low, while the rate of false alarms is high. Therefore it does not deserve the STANDARD rating.

We are going to make an additional test of Kaspersky Anti-Virus 7.0 (will be released in June 2007).

8. Copyright and Disclaimer

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Andreas Clementi, AV-Comparatives (May 2007)