PCSL Total Protection Test 2009 July Report

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Website：**http://www.pcsecuritylabs.net/**

Cooperation Media：PCHome   **http://antivirus.pchome.net/**

                       ZOL   **http://xiazai.zol.com.cn/**

                       PConline   **http://pcedu.pconline.com.cn/**

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Introduction：

PC Security Labs (PCSL) is an independent research organization focusing on security software test and test standard development. Our principal is "scientific, precise and independent". Through a long period of development, PCSL has established an efficient antivirus test system and over 30 security vendors are using PCSL's service to test their products. As the only test organization to join AMTSO in the mainland of China, PCSL's efforts have earned worldwide recognition in the security industry. Furthermore, we are negotiating with some research labs in the university to seek for the opportunity to cooperate together on threat research and antivirus test.

PCSL Total Protection Test is to test the comprehensive defense ability to virus, trojan, worm and other malware of security products (antivirus products). PCSL Total Protection Test consists of three parts: Static Test, Dynamic Test and False Positive Test. Generally speaking, antivirus products will scan all the data in the computer and compare their code to the signature database, so static test is designed to test the capability of this kind of detection. In Dynamic Test, we will execute the samples left in static test one by one and check whether the antivirus product can successfully block the infection or not. We will use a large scale of clean files to test how many false positives the tested products have and currently there is only static false positive test and later we will add dynamic false positive test as supplementary.

Four new vendors (Sunbelt 、 Micro World、Tall Emu、SOPHOS)are newly added to the public test and five other security vendors are in the process of internal test.

This time, there are 23 different products being tested and Kaspersky Internet Security 2010 (score：99.58) scores 1st of the total 23 different products. 17 products win 5 star excellent monthly award and 3 products win 4 star standard monthly award.

Consultant: Deckard Cain; alax; Xuanyuan Xiaocong

Methodology:

◆ Testing is based on the PC Security Labs Manual(v.200907) and with network connection

◆ Update time: 23:00 July 22nd , 2009，GMT+8

◆ 200905 and 200906 Malwarelist (3132 different malicious samples) and plenty of clean files.

◆ Scoring System=（A+B）/C*100-lg(D+1)
A=Detection number in the static test
B=Detection number in the dynamic test
C=Malware-List sample number
D=False positive number

◆ Final Score：95.00-100.00 5star excellent monthly award

◆ Final Score：90.00-94.99 4star standard monthly award
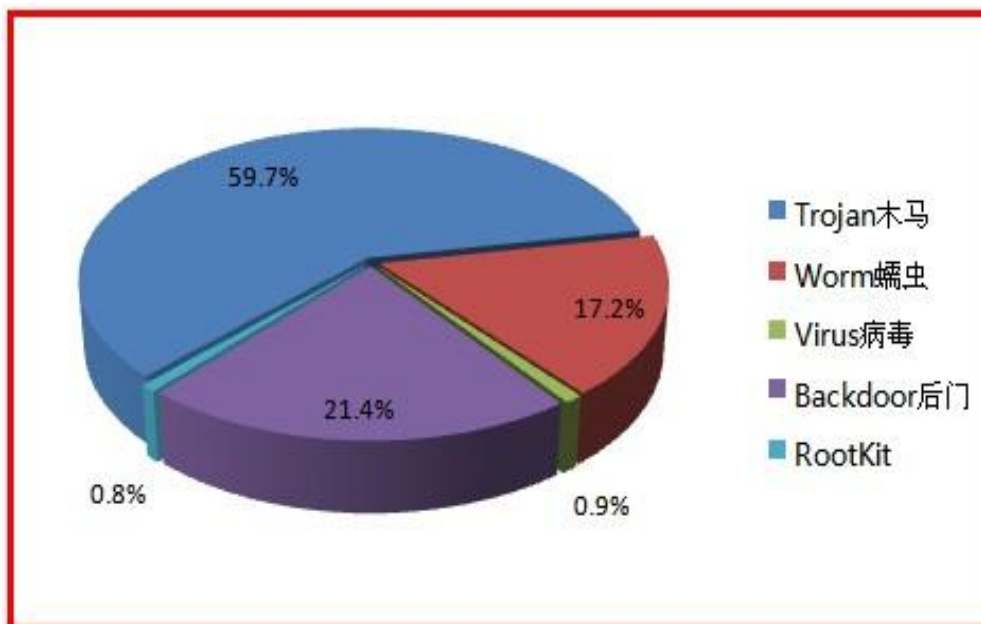
Products Tested :

Product	Vendor	Homepage
ArcaVir 2009 Internet Security	ArcaBit	http://www.arcabit.com/
Avira Premium Security Suite 9	Avira	http://www.avira.com/
BitDefender Total Security 2009	BitDefender	http://www.bitdefender.com/
Dr.Web® Security Space	Dr.Web	http://www.drweb.com/
a-squared Anti-Malware 4.5	Emsisoft	http://www.emsisoft.com/
Twister Anti-TrojanVirus	Filseclab	http://www.filseclab.com/
Simple Antivirus v2.1	Finport	http://www.simple-avr.com.ua/
F-Secure Internet Security 2009	F-Secure	http://www.f-secure.com/
G DATA Internet Security 2010	GDATA	http://www.gdata.de/
IKARUS virus utilities T3	IKARUS	http://www.ikarussoftware.com/
Jiangmin Antivirus KV2009	Jiangmin	http://www.jiangmin.com/
Kaspersky Internet Security 2010	Kaspersky	http://www.kaspersky.com/
Kingsoft Internet Security 2009	Kingsoft	http://www.duba.net/
eScan Internet Security Suite	Micro World	http://www.mwti.net/
Spy Emergency 2009	NETGATE	http://www.spy-emergency.com/
Panda Internet Security 2010	Panda	http://www.pandasecurity.com/
Quick Heal Total Security 2009	Quick Heal	http://www.quickheal.co.in/
Sophos Anti-Virus	SOPHOS	http://www.sophos.com/
VIPRE Antivirus+Antispyware	Sunbelt	http://www.sunbeltsoftware.com/
Online-Armor ++	Tall Emu	http://www.tallemu.com/
Trend Micro Internet Security 2009	Trend Micro	http://www.trendmicro.com.cn/
TrustPort PC Security 2009	Trust Port	http://www.trustport.com/
VBA32 Antivirus	VBA32	http://www.anti-virus.by/en/

Static Detection Rate：

Total Sample 3132 （see picture one）

Vendor	Static Detection number	Static Detection rate	rank
Tall Emu	3129	99.90%	1
Emsisoft	3129	99.90%	1
Panda	3128	99.87%	3
Avira	3127	99.84%	4
IKARUS	3126	99.81%	5
GDATA	3118	99.55%	6
Trust Port	3109	99.27%	7
SOPHOS	3041	97.09%	8
Kaspersky	3028	96.68%	9
BitDefender	3011	96.14%	10
Trend Micro	3005	95.95%	11
Micro World	2992	95.53%	12
Quick Heal	2972	94.89%	13
F-Secure	2957	94.41%	14
Sunbelt	2952	94.25%	15
VBA32	2952	94.25%	15
Jiangmin	2899	92.56%	17
ArcaBit	2872	91.70%	18
Filseclab	2687	85.79%	19
Dr.Web	2682	85.63%	20
Kingsoft	2632	84.04%	21
Finport	1508	48.15%	22
NETGATE	1251	39.94%	23

Total Detection Rate：

Total sample 3132 (see picture1)

Vendor	Static Detection	Dynamic Detection	Total Detection	Total Rate	Rank
Tall Emu	3129	3	3132	100.00%	1
Emsisoft	3129	2	3131	99.97%	2
Panda	3128	2	3130	99.94%	3
Avira	3127	2	3129	99.90%	4
IKARUS	3126	1	3127	99.84%	5
GDATA	3118	3	3121	99.65%	6
Trust Port	3109	11	3120	99.62%	7
Kaspersky	3028	91	3119	99.58%	8
Jiangmin	2899	212	3111	99.33%	9
SOPHOS	3041	69	3110	99.30%	10
BitDefender	3011	73	3084	98.47%	11
Filseclab	2687	395	3082	98.40%	12
Trend Micro	3005	70	3075	98.18%	13
F-Secure	2957	106	3063	97.80%	14
Quick Heal	2972	85	3057	97.61%	15
Micro World	2992	31	3023	96.52%	16
Sunbelt	2952	56	3008	96.04%	17
VBA32	2952	34	2986	95.34%	18
ArcaBit	2872	70	2942	93.93%	19
Kingsoft	2632	189	2821	90.07%	20
Dr.web	2682	102	2784	88.89%	21
Finport	1508	187	1695	54.12%	22
NETGATE	1251	439	1690	53.96%	23

False Positive Test::

Vendor	FP Number
Kaspersky	0
F-Secure	0
Kingsoft	0
IKARUS	1
Filseclab	1
Quick Heal	1
NETGATE	1
Tall Emu	2
Emsisoft	2
Panda	2
Jiangmin	2
Avira	3
GDATA	3
BitDefender	3
Micro World	3
Dr.Web	3
Finport	5
Sunbelt	6
SOPHOS	7
VBA32	7
ArcaBit	7
Trend Micro	8
Trust Port	19

Total Score Rank: (See picture2)

Vendor	Total Score	Rank
Kaspersky	99.58	1
IKARUS	99.54	2
Tall Emu	99.52	3
Emsisoft	99.49	4
Panda	99.46	5
Avira	99.30	6
GDATA	99.05	7
Jiangmin	98.85	8
SOPHOS	98.39	9
Trust Port	98.32	10
Filseclab	98.10	11
BitDefender	97.87	12
F-Secure	97.80	13
Quick Heal	97.30	14
Trend Micro	97.23	15
Micro World	95.92	16
Sunbelt	95.20	17
VBA32	94.44	18
ArcaBit	93.03	19
Kingsoft	90.07	20
Dr.Web	88.29	21
NETGATE	53.66	22
Finport	53.34	23

Picture 1 Static Detection Rate and Total Detection Rate
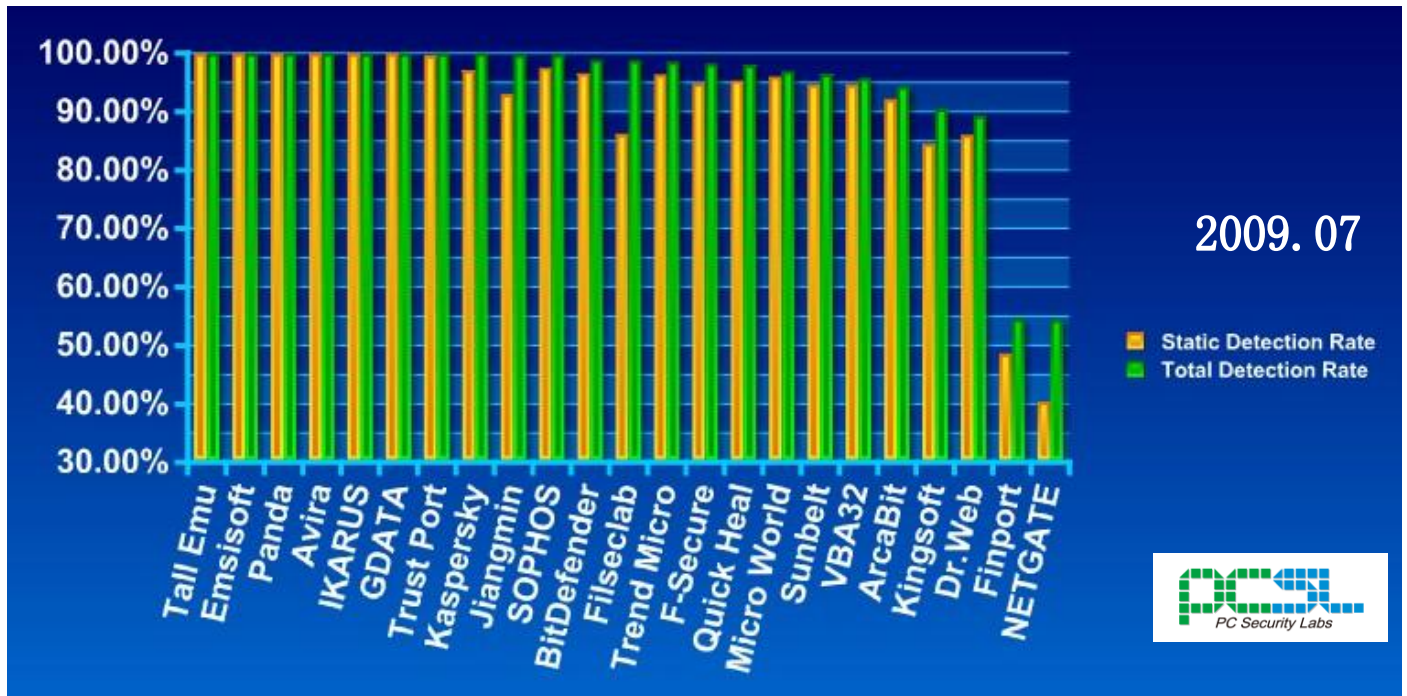
Picture 2 Total Score Rank
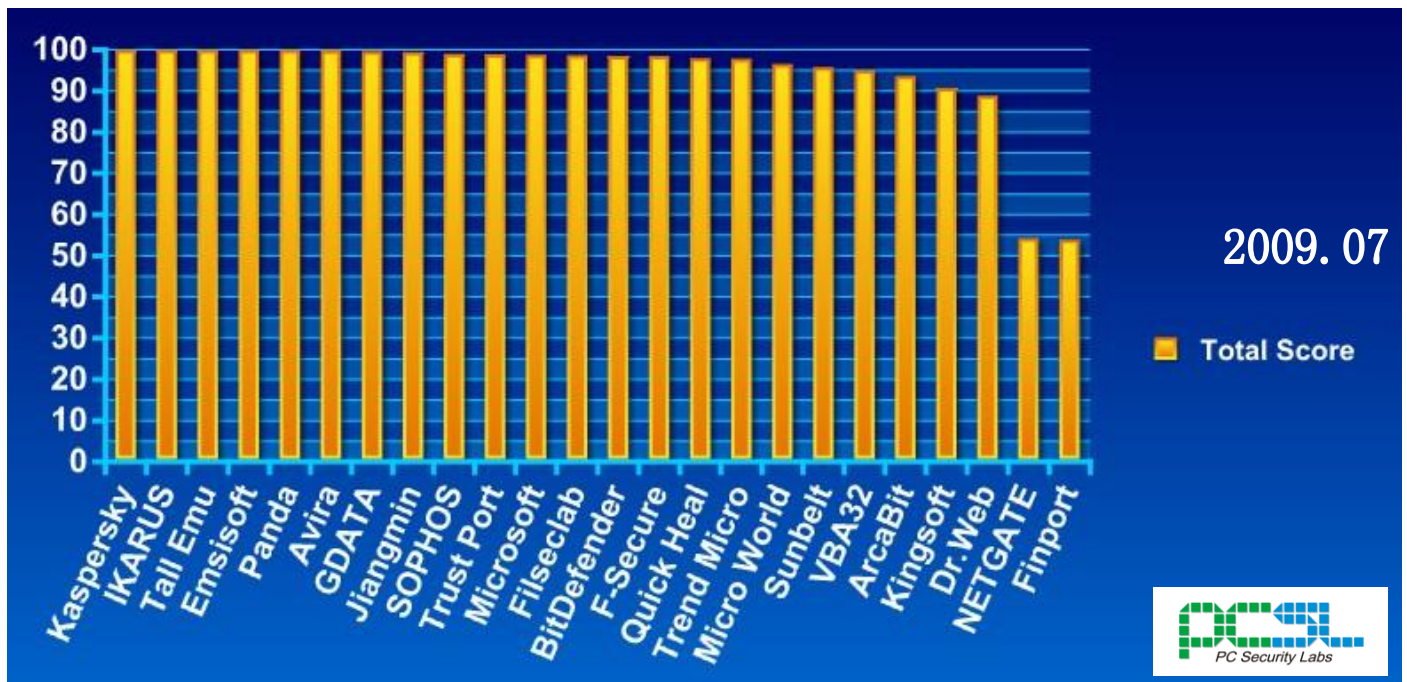
5 Star Excellent Award：

Vendor
Kaspersky
IKARUS
Tall Emu
Emsisoft
Panda
Avira
GDATA
Jiangmin
SOPHOS
Trust Port
Microsoft
Filseclab
BitDefender
F-Secure
Quick Heal
Trend Micro
Micro World
Sunbelt

4 Star Standard Award：

Vendor
VBA32
ArcaBit
Kingsoft

PCSL Tested：

Vendor
Dr.Web
NETGATE
Finport

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