

Independent Tests of Anti-Virus Software



Details of False Alarms Appendix to the Malware Protection Test

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
Details of false alarms

In AV testing, it is important to measure not only detection capabilities but also reliability. One aspect of reliability is the ability to recognize clean files as such, and not to produce false alarms (false positives). No product is immune from false positives (FPs), but some produce more than others. False Positives Tests measure which programs do best in this respect, i.e. distinguish clean files from malicious files, despite their context. There is no complete collection of all legitimate files that exist, and so no "ultimate" test of FPs can be done. What can be done, and is reasonable, is to create and use a set of clean files which is independently collected. If, when using such a set, one product has e.g. 15 FPs and another only 2, it is likely that the first product is more prone to FPs than the other. It doesn't mean the product with 2 FPs doesn't have more than 3 FPs globally, but it is the relative number that is important.

All listed false alarms were encountered at the time of testing. False alarms caused by unencrypted data blocks in anti-virus related files were not counted. If a product had several false alarms belonging to the same application, it is counted here as only one false alarm. Cracks, keygens, or other highly questionable tools, including FPs distributed/shared primarily by vendors (which may be in the several thousands) or other non-independent sources are not counted here as false positives.

In order to give more information to the user about the false alarms, we try to rate the prevalence of the false alarms. Files which were digitally signed are considered more important. Due to that, a file with the lowest prevalence level (Level 1) and a valid digital signature is upgraded to the next level (e.g. prevalence "Level 2"). Extinct files which according to several telemetry sources had zero prevalence have been provided to the vendors in order to fix them, but have also been removed from the set and were not counted as false alarms.

The prevalence is given in five categories and labeled with the following colors: 

Level	Presumed number of affected users	Comments
1 	Probably fewer than a hundred users	Individual cases, old or rarely used files, very low prevalence
2 	Probably several hundreds of users	Initial distribution of such files was probably much higher, but current usage on actual systems is lower (despite its presence), that is why also well-known software may now affect / have only a prevalence of some hundreds or thousands of users.
3 	Probably several thousands of users	
4 	Probably several tens of thousands (or more) of users	
5 	Probably several hundreds of thousands or millions of users	Such cases are likely to be seen much less frequently in a false alarm test done at a specific time, as such files are usually either whitelisted or would be noticed and fixed very fast.

Most false alarms will probably (hopefully) fall into the first two levels most of the time.

In our opinion, anti-virus products should not have false alarms on any sort of clean files regardless of how many users are currently affected by them. While some AV vendors may play down the risk of false alarms and play up the risk of malware, we are not going to rate products based on what the supposed prevalence of false alarms is. We already allow a certain number of false alarms (currently 10) inside our clean set before we start penalizing scores, and in our opinion products which produce a higher number of false alarms are also more likely to produce false alarms with more prevalent files (or in other sets of clean files). The prevalence data we give for clean files is just for informational purpose. The listed prevalence can differ inside the report, depending on which file/version the false alarm occurred, and/or how many files of the same kind were affected.

There may be a variation in the number of false positives produced by two different programs that use the same engine (principal detection component). For example, Vendor A may license its detection engine to Vendor B, but Vendor A's product may have more or fewer false positives than Vendor B's product. This can be due to factors such as different internal settings being implemented, differences in other components and services such as additional or differing secondary engines/signatures/whitelist databases/cloud services/quality assurance, and possible time delay between the release of the original signatures and the availability of the signatures for third-party products.

False Positives (FPs) are an important measurement for AV quality. Furthermore, the test is useful and needed to avoid that vendors optimize products to score good in tests by looking at the context – this is why false alarms are being mixed and tested the same way as tests with malware are done. One FP report from a customer can result in large amount of engineering and support work to resolve the issue. Sometimes this can even lead to important data loss or system unavailability. Even “not significant” FPs (or FPs on older applications) deserve mention and attention because FPs are likely to be a result of principled rule detections. It just happened that the FP was on an insignificant file. The FP possibility is probably still in the product and could potentially cause an FP again on a more significant file. Thus, they still deserve mention and still deserve to be penalised. Below you will find some info about the false alarms we observed in our independent set of clean files. Red entries highlight false alarms on files that were digitally signed.

The detection names shown were taken from pre-execution scan logs (where available). If a threat was blocked on/during/after execution (or no clear detection name was seen), we state “Blocked” in the column “Detected as”.

ESET

False alarm found in some parts of	Detected as	Supposed prevalence
ComfortUpdater package	MSIL/TrojanDropper.Agent.AYP.Gen trojan	
UnitedPlanet package	a variant of Win32/Injector.BNGG trojan	

ESET had 2 false alarms.

Kaspersky

False alarm found in some parts of	Detected as	Supposed prevalence
CheckSig package	HEUR:Trojan-Ransom.Win32.Gen.gen	
ESET package	Trojan.Win32.Staser.coah	
SwiftSwing package	HEUR:Trojan.Win32.Generic	

Kaspersky had 3 false alarms.

Trend Micro

False alarm found in some parts of	Detected as	Supposed prevalence
Boot package	Blocked	
ESET package	TROJ_GEN.R002C0DFB20	
Opera package	Blocked	
Preme package	Blocked	
Swiftswing package	TROJ_GEN.R03BC0WH820	

Trend Micro had 5 false alarm.

Bitdefender

False alarm found in some parts of	Detected as	Supposed prevalence
AutoDarkMode package	Blocked	
CenterMail package	Gen:Variant.Ursu.813676	
Delphi package	Trojan.GenericKD.33569199	
Lucent package	Blocked	
TrialReminder package	Blocked	
Warner package	Blocked	

Bitdefender had 6 false alarms.

G DATA

False alarm found in some parts of	Detected as	Supposed prevalence
AutoKMV package	Blocked	
CenterMail package	Gen:Variant.Ursu.813676	
DHTPC package	Gen:Variant.Ursu.728736	
ESET package	Blocked	
Howard package	Blocked	
VideoRescue package	Gen:Variant.Jacard.167275	

G DATA had 6 false alarms.

Total Defense

False alarm found in some parts of	Detected as	Supposed prevalence
CenterMail package	Gen:Variant.Ursu.813676	
Delphi package	Trojan.GenericKD.33569199	
DWSIM package	Blocked	
Fujitsu package	Blocked	
GeniusConnect package	Blocked	
TrialReminder package	Blocked	

Total Defense had 6 false alarms.

AVIRA

False alarm found in some parts of	Detected as	Supposed prevalence
DamnNation package	HEUR/APC	
Delphi package	HEUR/APC	
DuplicateFinder package	HEUR/APC	
ESET package	TR/Muldrop.whnqj	
GuessTheNumber package	HEUR/APC	
Milo package	HEUR/APC	
Swiftswing package	HEUR/AGEN.1133632	
WinUAE package	TR/AD.NsisInject.kaouc	

AVIRA had 8 false alarms.

Total AV

False alarm found in some parts of	Detected as	Supposed prevalence
DamnNation package	HEUR/APC	
Delphi package	HEUR/APC	
DuplicateFinder package	HEUR/APC	
ESET package	TR/Muldrop.whnqj	
GuessTheNumber package	HEUR/APC	
Milo package	HEUR/APC	
Swiftswing package	HEUR/AGEN.1133632	
WinUAE package	TR/AD.NsisInject.kaouc	

Total AV had 8 false alarms.

F-Secure

False alarm found in some parts of	Detected as	Supposed prevalence
DamnNation package	Blocked	
ESET package	TR/Muldrop.whnqj	
Glance package	Blocked	
GuessTheNumber package	Blocked	

ProcX package	Blocked	
Samurize package	Trojan-Downloader:JS/TeslaCrypt.C	
SwiftSwing package	Heuristic.HEUR/AGEN.1133632	
Warner package	Blocked	
WinUAE package	Trojan.TR/AD.NsisInject.kaouc	

F-Secure had 9 false alarms.

Avast / AVG

False alarm found in some parts of	Detected as	Supposed prevalence
Dateicommander package	Win32:Malware-gen	
Delphi package	Win32:Malware-gen	
Diel package	FileRepMalware	
ESET package	Win32:Malware-gen	
Kotato package	Blocked	
Opera package	FileRepMalware	
Pharmacy package	Blocked	
PNotes package	FileRepMalware	
SafeErase package	FileRepMalware	
SwiftSwing package	Win32:Malware-gen	

Avast and AVG had 10 false alarms.

McAfee

False alarm found in some parts of	Detected as	Supposed prevalence
AvancePaint package	JTI/Suspect.196612!255d333c6dd1	
CleanGP package	Blocked	
Delphi package	JTI/Suspect.196612!3a288ba63e64	
ESET package	JTI/Suspect.196612!3dd5d756b80e	
MemReduct package	JTI/Suspect.196612!25db35058f16	
Opera package	JTI/Suspect.196612!bc5289917846	
PCW package	JTI/Suspect.196612!325b8510ae22	
SipGate package	JTI/Suspect.196612!4c44a4935628	
Spectrum package	JTI/Suspect.196612!cf7f1be6ee8a	
SwiftSwing package	JTI/Suspect.196612!1cc75a72a223	

McAfee had 10 false alarms.

Microsoft

False alarm found in some parts of	Detected as	Supposed prevalence
7zip package	Blocked	
AmericanConquest package	Blocked	
Aukcji package	Blocked	
AvancePaint package	Blocked	
Bandit package	Blocked	
Boo package	Blocked	
DamnNation package	Blocked	
Delphi package	Blocked	
ESET package	Trojan:Win32/Esulat.A!rfn	
FourthRay package	Blocked	
HelpVideo package	Blocked	
Image2PDF package	Blocked	
JetBrains package	Blocked	
Lottoziehung package	Blocked	
Opera package	Blocked	
QuickKey package	TrojanDownloader:Win32/Upatre	
Swiftswing package	Trojan:Win32/Wacatac.D6!ml	
Syncios package	Blocked	
Unity package	Blocked	
WinPIM package	Blocked	
YTdownloader package	Blocked	

Microsoft had 21 false alarms.

Vipre

False alarm found in some parts of	Detected as	Supposed prevalence
Assist package	Blocked	
AutoDarkMode package	Blocked	
CashTallyOne package	Blocked	
CenterMail package	Gen:Variant.Ursu.813676	
DiagramDesigner package	Gen:Variant.Jacard.192711	
DWSIM package	Blocked	
GIFmaker package	Blocked	
GTA package	Blocked	
JumpingBytes package	Blocked	
Lucent package	Blocked	
NetworkChat package	Gen:Trojan.Heur.EKY@Y23uNvn	
PCW package	Gen:Variant.Ursu.784989	

Preme package	Blocked	
Transitions package	Blocked	
TrialReminder package	Blocked	
VideoRescue package	Gen:Variant.Jacard.167275	
Warner package	Blocked	
WinPIM package	Blocked	

Vipre had 18 false alarms.

NortonLifeLock

False alarm found in some parts of	Detected as	Supposed prevalence
AutoMKV package	Heur.AdvML.C	
AvancePaint package	Suspicious.Epi.3	
Bonkenc package	Heur.AdvML.B	
Boot package	Suspicious.Epi.3	
BrothersinArms package	Heur.AdvML.C	
Calendars package	Suspicious.Epi.3	
CarJacker package	Suspicious.Epi.3	
CleanGP package	Suspicious.Epi.3	
Delphi package	Trojan.Gen.2	
Deskman package	Suspicious.Epi.3	
DeusEx package	Heur.AdvML.C	
Dimio package	Suspicious.Epi.3	
DirectX package	Suspicious.Epi.3	
Dooble package	Suspicious.Epi.3	
Dowcip package	Suspicious.Epi.3	
Earth2160 package	Suspicious.Epi.3	
Easo package	Suspicious.Epi.3	
EvilPlayer package	Heur.AdvML.B	
FastHide package	Suspicious.Epi.3	
GTA package	Heur.AdvML.C	
Hardcopy package	Suspicious.Epi.3	
Konwerter package	Suspicious.Epi.3	
Lame package	Suspicious.Epi.3	
MacAddress package	Heur.AdvML.B	
MySermons package	Suspicious.Epi.3	
NetworkFile package	Heur.AdvML.A	
NPython package	Heur.AdvML.B	
Reaper package	Heur.AdvML.C	
RegDefrag package	Heur.AdvML.B	

RMCA package	Suspicious.Epi.3	
Serwer package	Heur.AdvML.C	
SipGate package	Heur.AdvML.C	
Swiftswing package	Heur.AdvML.C	
Syspad package	Suspicious.Epi.3	
Tawerna package	Heur.AdvML.C	
TerminPlaner package	Heur.AdvML.B	
TrafficMonitor package	Heur.AdvML.B	
Warner package	Heur.AdvML.B	
Wesnoth package	Suspicious.Epi.3	
XiceCube package	Suspicious.Epi.3	
Xion package	Trojan.Gen.2	

NortonLifeLock had 41 false alarms.

K7

False alarm found in some parts of	Detected as	Supposed prevalence
AdiIRC package	Blocked	
AirExplorer package	Blocked	
Alice package	Blocked	
Alternate package	Blocked	
AmericanConquest package	is a Riskware (0040eff71)	
Ascora package	Blocked	
Autodesk package	is a Riskware (0049f6ae1)	
AvancePaint package	Blocked	
AVG package	is a Riskware (0040eff71)	
BearShare package	is a Riskware (0040eff71)	
BenQ package	is a Riskware (0040eff71)	
BestAddress package	Blocked	
Binaeruhr package	Blocked	
BlueSky package	Blocked	
BonBon package	Blocked	
Citrix package	Blocked	
CleanGP package	Blocked	
ComfortUpdater package	Blocked	
Comix package	Blocked	
CompuGroup package	Blocked	
CPUid package	Blocked	
Dateicommander package	Blocked	
DeDupler package	Blocked	

Delphi package	Blocked	
Deskman package	Blocked	
DeusEx package	Blocked	
DHTPC package	Blocked	
DWSIM package	Blocked	
eMerge package	Blocked	
EnWeb package	Blocked	
ESET package	is a Riskware (0040eff71)	
HelpVideo package	Blocked	
Image2PDF package	Blocked	
Indigo package	Blocked	
Innovative package	Blocked	
Inventor package	is a Riskware (0040eff71)	
JetBrains package	Blocked	
Kartell package	is a Riskware (0040eff71)	
LeaderTask package	Blocked	
LmByte package	Blocked	
M2T package	Blocked	
MacAddress package	Blocked	
MailBird package	Blocked	
Manager package	Blocked	
MetaTogger package	Blocked	
Mozilla package	Blocked	
MSN package	Blocked	
MultiCore package	Blocked	
MuteMe package	Blocked	
MySermons package	Blocked	
Nobu package	Blocked	
NX package	Blocked	
PCessentials package	is a Riskware (0040eff71)	
PCW package	Blocked	
PDFviewer package	Blocked	
Playnite package	Blocked	
Preme package	Blocked	
QuickPicture package	Blocked	
RegDefrag package	Blocked	
RemoteMouse package	Blocked	
RMCA package	Blocked	
SafeInCloud package	Blocked	

SAR package	is a Trojan (003b1b581)	
Serwer package	Blocked	
SharpKeys package	Blocked	
Sordum package	Blocked	
SQL package	Blocked	
Symantec package	is a Riskware (004bbad11)	
Thundersave package	Blocked	
UltraViewer package	Blocked	
UnstopCopy package	is a Riskware (0040eff71)	
Warner package	Blocked	
Webroot package	Blocked	
Wesnoth package	Blocked	
Wetterfroschi package	Blocked	
WinGuard package	Blocked	
WPD package	Blocked	
YDownloader package	Blocked	



K7 had 78 false alarms.

Panda

False alarm found in some parts of	Detected as	Supposed prevalence
7zip package	Blocked	
Abacre package	Blocked	
AdiIRC package	Blocked	
AmericanConquest package	Trj/Swizzor.S	
Apache package	Blocked	
Argon package	Blocked	
ArtMoney package	Blocked	
Assembly package	Blocked	
Assist package	Blocked	
Assistant package	Blocked	
AudioSplit package	Blocked	
Aukcji package	Blocked	
Barcode package	Blocked	
BestAddress package	Blocked	
Bestellbuch package	Blocked	
BlueSky package	Blocked	
BluRay package	Blocked	
BMS package	Blocked	
BonBon package	Blocked	

Boo package	Blocked	
BookReader package	Blocked	
BrightFort package	Blocked	
BrothersInArms package	Blocked	
Calendars package	Blocked	
CaptureFile package	Blocked	
CDrunner package	Blocked	
CharView package	Blocked	
CheckSig package	Blocked	
ClipFinder package	Blocked	
CloneAP package	Blocked	
CompuGroup package	Blocked	
DamnNation package	Blocked	
Delphi package	Blocked	
DeusEx package	Blocked	
Diel package	Blocked	
DirMonitor package	Blocked	
DWSIM package	Blocked	
Easo package	Trj/CI.A	
EasyCode package	Blocked	
Emma package	Blocked	
ESET package	Blocked	
FairStars package	Blocked	
FFVPN package	Blocked	
FlashPeak package	Blocked	
FMOD package	Trj/Genetic.gen	
FourthRay package	Blocked	
FreeGifMaker package	Blocked	
Gemini package	Blocked	
GeniusConnect package	Blocked	
GetText package	Blocked	
GifMaker package	Blocked	
Glance package	Trj/CI.A	
Howard package	Blocked	
Image2PDF package	Blocked	
ImageList package	Blocked	
JumpingBytes package	Blocked	
LmByte package	Blocked	
LottoExperte package	Blocked	

Lottoziehung package	Blocked	
MailEnable package	Blocked	
MedXpert package	Blocked	
Merge package	Blocked	
MetaTogger package	Blocked	
MikTeX package	Blocked	
Monkey package	Blocked	
Monolinker package	Blocked	
Mozilla package	Blocked	
MySermons package	Blocked	
NetServer package	Blocked	
NPython package	Blocked	
Opera package	Blocked	
OrangeCD package	Blocked	
PathToCopy package	Blocked	
PCAP package	Blocked	
PCinfo package	Blocked	
PCW package	Blocked	
PDFwatermark package	Blocked	
PersonalBackup package	Blocked	
Playnite package	Blocked	
PNotes package	Blocked	
Python package	Blocked	
QT package	Blocked	
QuickKey package	Blocked	
QuickPicture package	Blocked	
Ravensburger package	Blocked	
Rooster package	Blocked	
RoverData package	Blocked	
SAM package	Blocked	
SDL package	Blocked	
Serwer package	Blocked	
SibCode package	Blocked	
SipGate package	Blocked	
Slideshow package	Blocked	
Snapshot package	Blocked	
SoftDeluxe package	Blocked	
SQL package	Blocked	
Swiftswing package	Blocked	

SyntaxEditor package	Blocked	
SysRestore package	Blocked	
TapinRadio package	Blocked	
Tomabo package	Blocked	
Transitions package	Blocked	
TrialReminder package	Blocked	
TryCast package	Blocked	
TVtunner package	Blocked	
UnitedPlanet package	Blocked	
Unity package	Blocked	
USBsuite package	Blocked	
VideoRescue package	Blocked	
VLC package	Blocked	
WinPIM package	Blocked	
WinRAR package	Trj/Genetic.gen	
XiceCube package	Blocked	
YTdownloader package	Blocked	

Panda had 114 false alarms.

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