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# NOD32 ver 2 ( $\beta$ 2) Performance Test Result

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# Performance Test & Procedure

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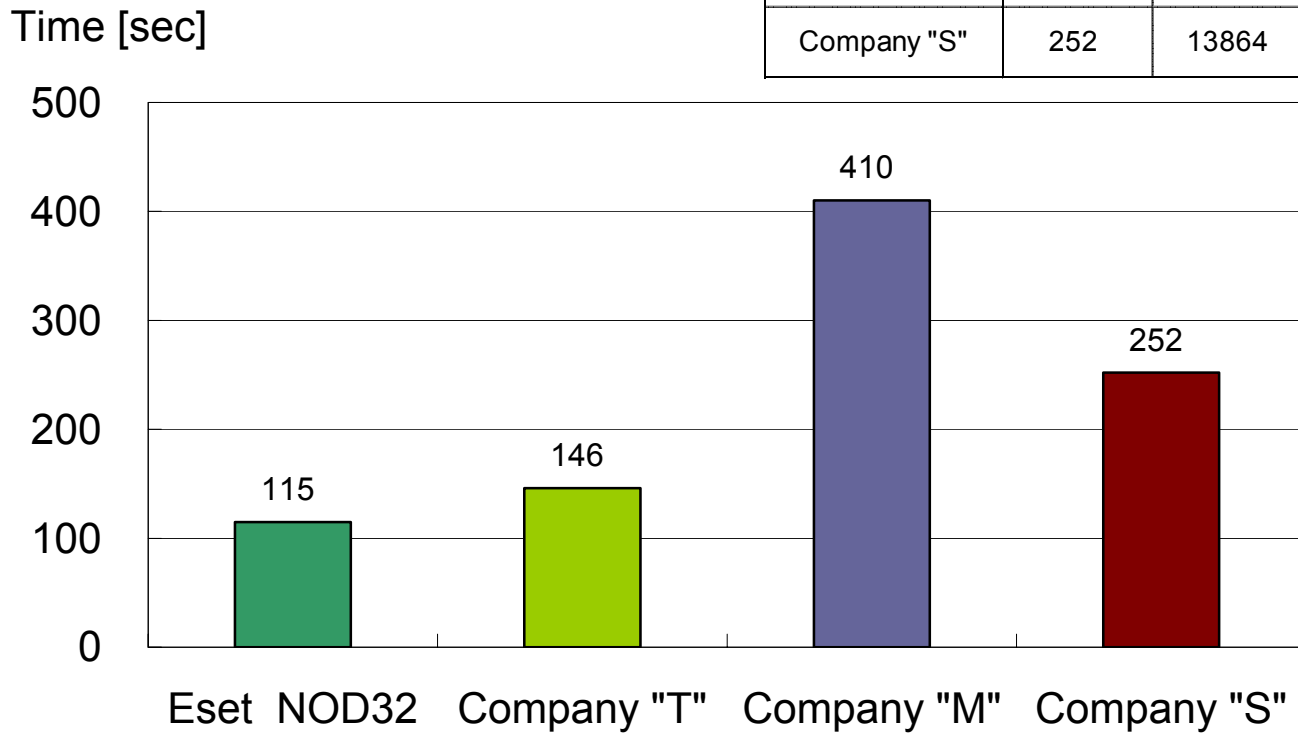
- Performance Test
  - (1) On-demand scan
  - (2) Excel file open/close under AMON working (On-access)
  - (3) Excel file open/close during On-demand scanning
  - (4) Memory Consumption of the process during idling (waiting)
  - (5) Size of virus definition file
  
- Procedure for (1), (2) and (3)

We did our performance test under the same environment for all AntiVirus software using Ghost by Symantec. By this procedure, we can eliminate any affection by disk fragmentation and order of the test.

# On-demand Scan

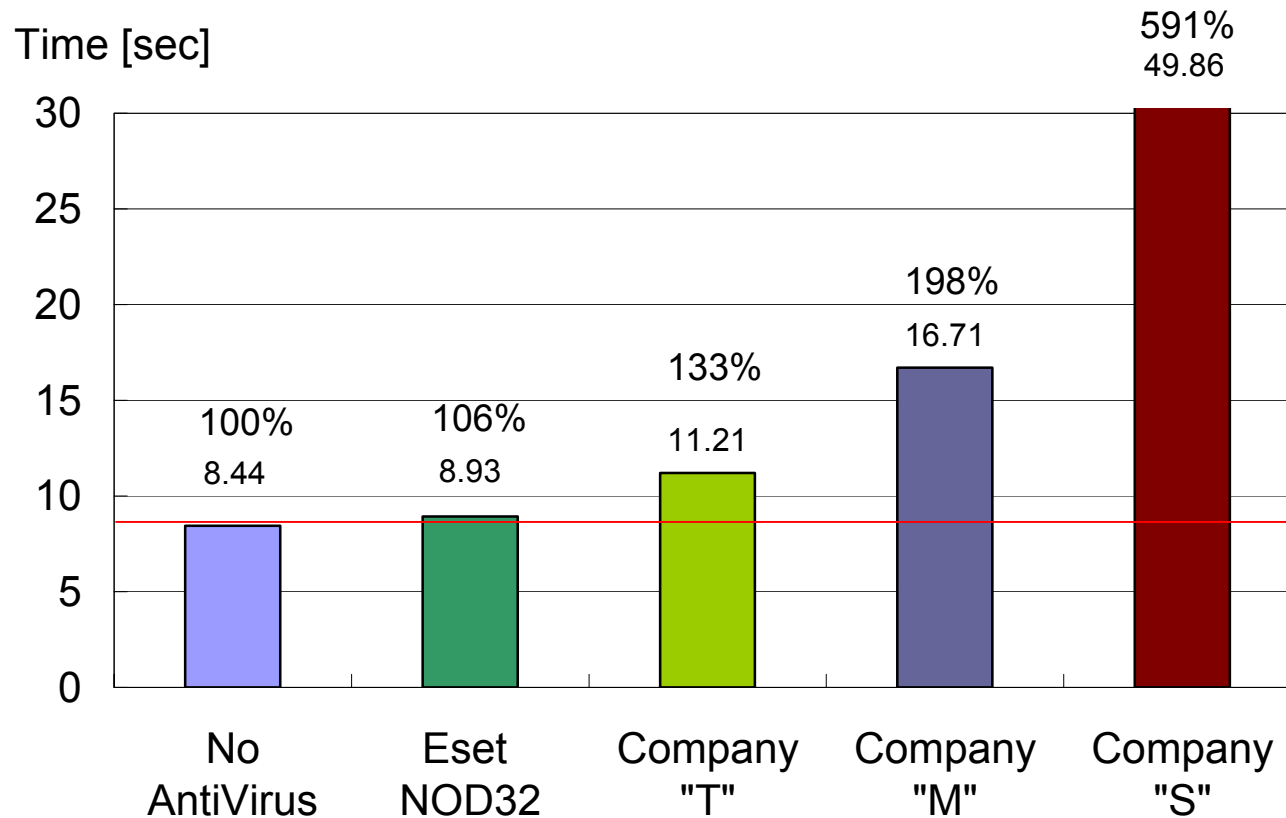
- On-demand Scan

Tested Products	Time [sec]	Number of files
Eset NOD32	115	13606
Company "T"	146	13668
Company "M"	410	13657
Company "S"	252	13864



# Performance under AMON

- File open/close under AMON working (On-access)



# Performance under AMON

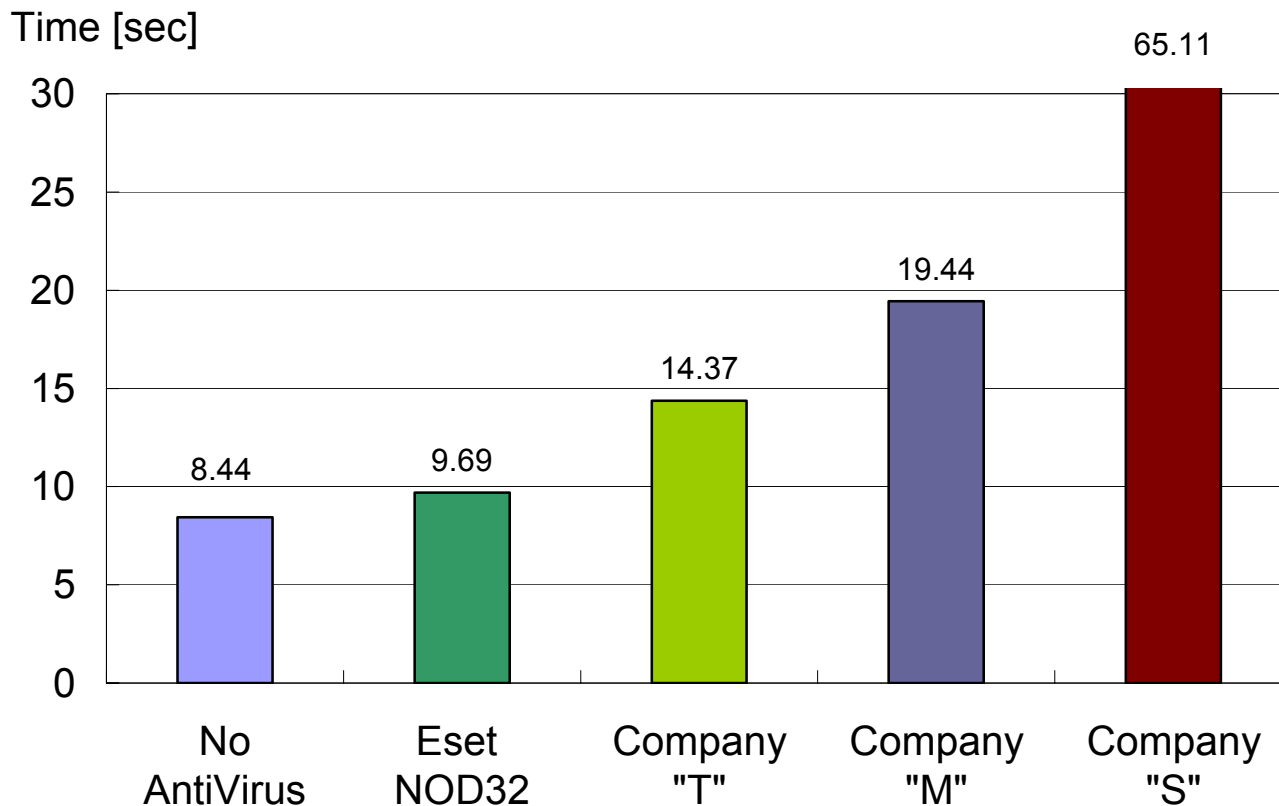
- This performance test is very important, because it is strongly related to the comfortableness when we use all applications on the computer.
- NOD32 is actually light and easy to use all applications without significant delay.
- Many people say “Norton is very heavy”. This is correct! It’s 6 times slower than original opening time.

File open/close under AMON working

Tested Products	Time [sec]	Delay [%]	$\sigma$	n
No AntiVirus	8.44	100%	0.126	10
Eset NOD32	8.93	106%	0.062	10
Company "T"	11.21	133%	0.265	10
Company "M"	16.71	198%	0.101	10
Company "S"	49.86	591%	0.129	10

# Performance under On-demand

- File open/close during On-demand Scanning



# Performance under On-demand

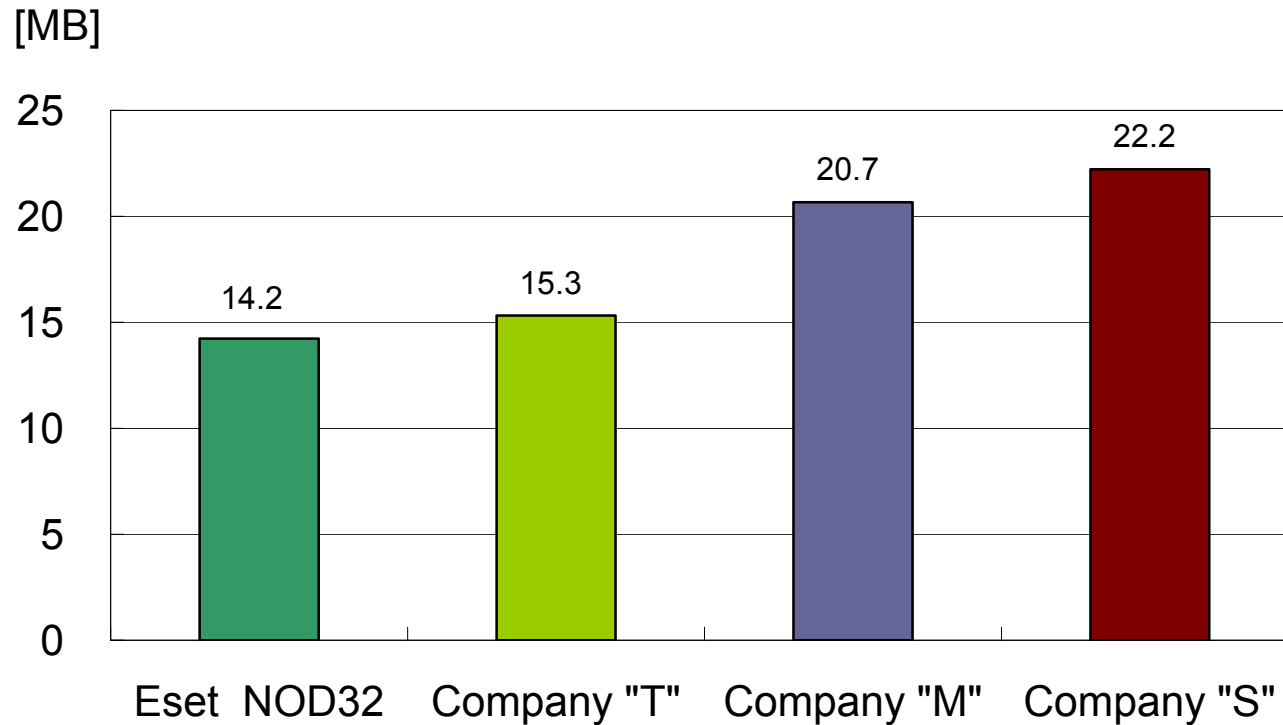
- This performance test shows whether we can easily use our PC or not during On-demand scan.
- Standard deviation shows there is much fluctuation in the result especially on Symantec data. Because the On-demand scans were over 4 times due to the slowness of the Excel file open/closing.

File open/close under On-demand scan

Tested Products	Time [sec]	Delay [%]	$\sigma$	n
No AntiVirus	8.44	100%	0.126	10
Eset NOD32	9.69	115%	1.76	10
Company "T"	14.37	170%	2.59	10
Company "M"	19.44	230%	0.74	10
Company "S"	65.11	771%	11.48	6

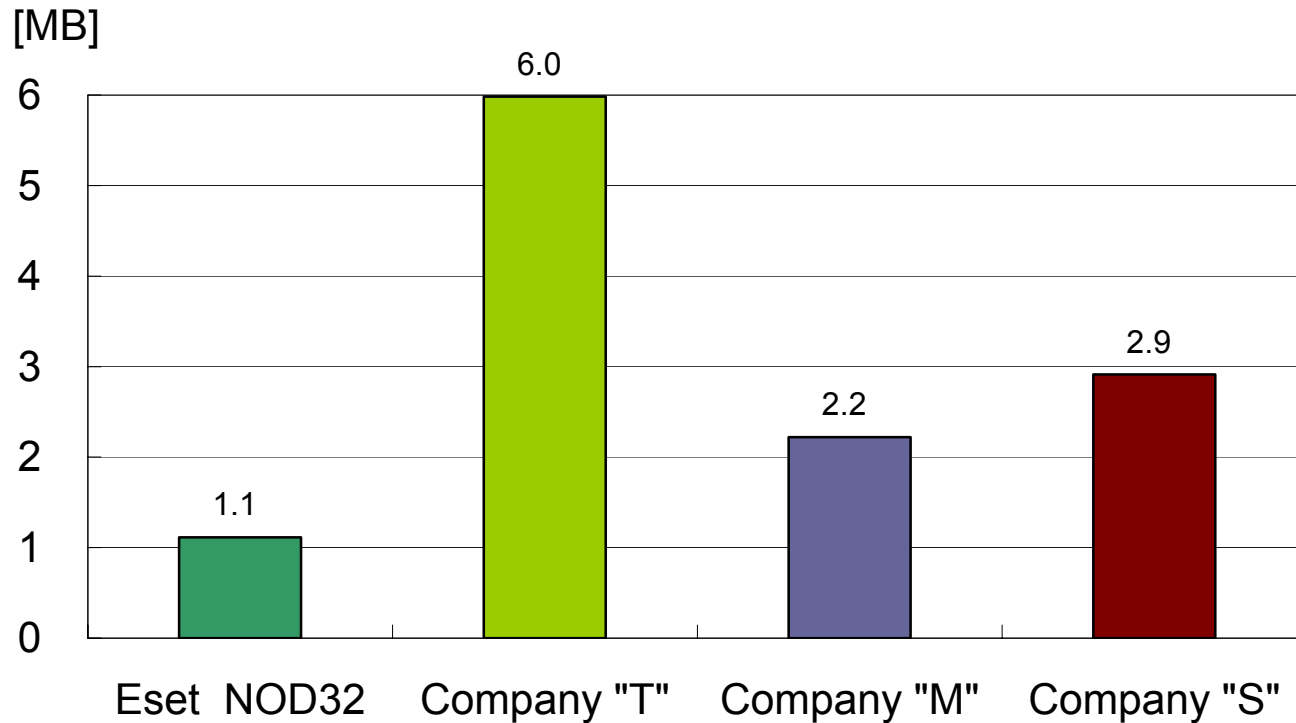
# Memory Consumption

- Memory Consumption of the Process during idling (waiting)



# Size of Virus Definition File

- Size of Virus Definition File





# Conclusion

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- We are very proud of the performance of NOD32 ver 2.
- NOD32 is the lightest AntiVirus software in the world, so that we can use our PC very comfortably as if we were not using AntiVirus software.
- Although many dial-up connection users are very reluctant to update the signature file, NOD32 will easily encourage them to download it because of its smallness and incremental update method (usually 100KB or less).
- Canon System Solutions will start to sell Japanese version late March or early April with promoting above data to our potential customers.