

Global Botnet Infection Rates

# Microsoft | Security Intelligence Report

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**Microsoft**

## **Microsoft Security Intelligence Report**

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## Worldwide botnet Geographic Data

The [“Geographic Statistics”](#) section, explains how threat patterns differ significantly in different parts of the world. Figure 1 shows the botnet CCM rate in 88 different locations around the world for each quarter between 1Q09 and 2Q10. (CCM is the number of computers cleaned for every 1,000 executions of the MSRT. For more information about the CCM metric, see [“Infection Rates”](#) in the Reference Guide section of the *Security Intelligence Report* website.)

## Reporting Period

In the current volume of the Security Intelligence Report, statistics about malware families and infections are reported on a quarterly basis, while other statistics continue to be reported on a half-yearly basis. In future volumes, Microsoft expects to report all statistics on a quarterly basis.

This document, half-yearly and quarterly time periods are referenced using the nHy or nQy formats, respectively, where yy indicates the calendar year and n indicates the half or quarter. For example, 1H10 represents the first half of 2010 (January 1 through June 30), whereas 2Q10 represents the second quarter of 2010 (April 1 through June 30). To avoid confusion, always pay attention to the reporting period or periods being referenced when considering the statistics in this report.

**Figure 1. Bot infection rates for locations around the world from 3Q09 to 2Q10, by bot CCM**

Country/Region	3Q09	4Q09	1Q10	2Q10
Algeria	0.2	0.2	0.3	0.3
Argentina	2.8	2.7	4.4	3.8
Australia	2.4	2.4	3.4	2.8
Austria	1.1	1.3	1.4	1.1
Belarus	0.1	0.1	0.2	0.2
Belgium	2.9	1.8	5.3	3.4
Bolivia	1.4	1.6	3.5	3.1
Brazil	2.9	3.8	7.0	5.2
Bulgaria	2.5	4.0	4.4	3.8
Canada	1.7	1.3	1.6	1.4
Chile	2.3	4.5	7.2	5.1
China	1.4	1.0	1.3	1.0
Colombia	3.1	5.0	9.2	5.8
Costa Rica	2.7	5.0	11.2	7.2
Croatia	4.5	6.0	11.0	8.6
Czech Republic	2.5	1.7	1.8	1.4
Denmark	2.6	1.7	3.0	1.7
Dominican Republic	1.8	2.5	5.1	3.8
Ecuador	1.6	3.8	11.1	5.9
Egypt	1.6	2.8	3.6	2.7
El Salvador	2.3	3.8	11.9	10.9
Estonia	2.6	2.6	6.6	3.0

Finland	1.3	1.2	1.9	0.9
France	3.0	2.7	6.7	4.0
Germany	1.9	1.3	2.0	1.4
Greece	3.6	3.8	6.0	4.3
Guatemala	4.3	3.9	9.8	6.1
Honduras	3.0	5.2	7.9	6.5
Hong Kong S.A.R.	1.3	1.2	1.6	1.1
Hungary	5.7	3.9	7.7	4.8
Iceland	3.4	3.6	9.0	4.6
India	0.3	0.5	1.5	1.0
Indonesia	0.7	0.9	0.9	0.8
Ireland	2.0	2.7	3.1	2.6
Israel	4.7	5.3	6.8	4.3
Italy	3.2	2.5	4.3	2.6
Jamaica	0.5	1.3	2.9	1.8
Japan	0.6	0.5	0.8	0.6
Jordan	1.2	2.7	2.9	2.3
Kazakhstan	0.1	0.2	0.4	0.4
Kenya	0.1	0.2	0.2	0.3
Korea	6.3	6.1	17.4	14.6
Kuwait	1.1	3.6	5.2	4.5
Latvia	4.4	3.9	4.5	3.4
Lebanon	0.4	1.3	1.8	1.5
Lithuania	3.8	4.6	7.2	4.6
Luxembourg	1.4	1.4	2.1	1.8
Malaysia	0.5	0.8	1.5	1.2
Mexico	3.5	6.7	14.8	11.4
Morocco	0.1	0.1	0.3	0.2
Netherlands	2.8	2.0	4.6	2.5
New Zealand	1.3	1.4	1.7	1.3
Nigeria	0.0	0.1	0.2	0.2
Norway	2.0	2.0	3.0	2.2
Pakistan	0.0	0.1	0.1	0.1
Panama	2.2	4.1	8.6	5.8
Peru	1.9	3.4	7.8	8.3
Philippines	0.3	0.6	1.1	1.4
Poland	2.9	4.2	6.1	3.9
Portugal	4.1	8.3	9.3	5.7
Puerto Rico	0.7	2.8	2.5	1.8
Qatar	1.0	1.2	2.2	1.8

Romania	1.5	1.6	2.5	2.0
Russia	4.2	3.9	5.2	4.3
Saudi Arabia	2.4	3.6	5.4	5.5
Serbia and Montenegro	1.9	2.3	4.2	2.6
Singapore	0.3	1.2	1.5	1.4
Slovakia	2.4	2.3	2.7	2.1
Slovenia	3.6	3.1	9.7	5.9
South Africa	2.6	5.8	9.3	8.4
Spain	6.9	11.0	17.3	12.4
Sri Lanka	0.0	0.0	0.1	0.1
Sweden	2.5	1.8	4.4	2.4
Switzerland	1.4	1.5	1.9	1.4
Taiwan	1.6	1.3	4.5	3.4
Thailand	2.6	1.9	3.0	2.8
Trinidad and Tobago	1.0	2.5	2.5	2.3
Tunisia	0.2	0.2	0.4	0.2
Turkey	4.1	2.8	5.8	4.7
Ukraine	0.7	0.6	1.3	1.1
United Arab Emirates	0.5	1.4	1.8	1.6
United Kingdom	3.2	2.5	3.0	2.7
United States	5.9	4.5	5.6	5.2
Uruguay	1.0	1.0	1.4	1.3
Venezuela	1.3	2.3	5.3	3.9
Vietnam	0.3	0.4	0.4	0.4
<b>Worldwide</b>	<b>2.5</b>	<b>2.5</b>	<b>4.0</b>	<b>3.2</b>