

CY13-Q3

Open Source IaaS Community Analysis

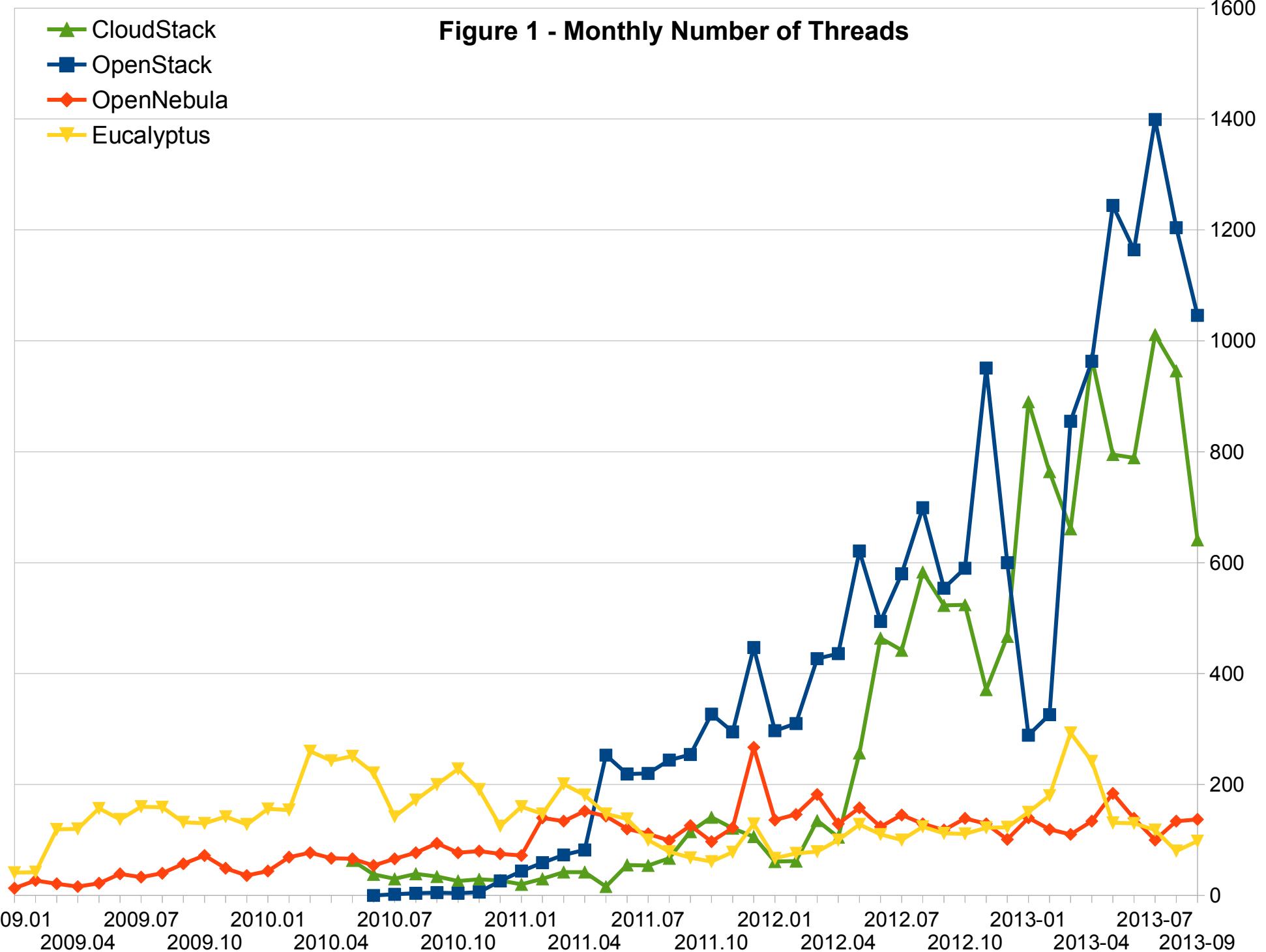
OpenStack vs OpenNebula vs Eucalyptus vs CloudStack

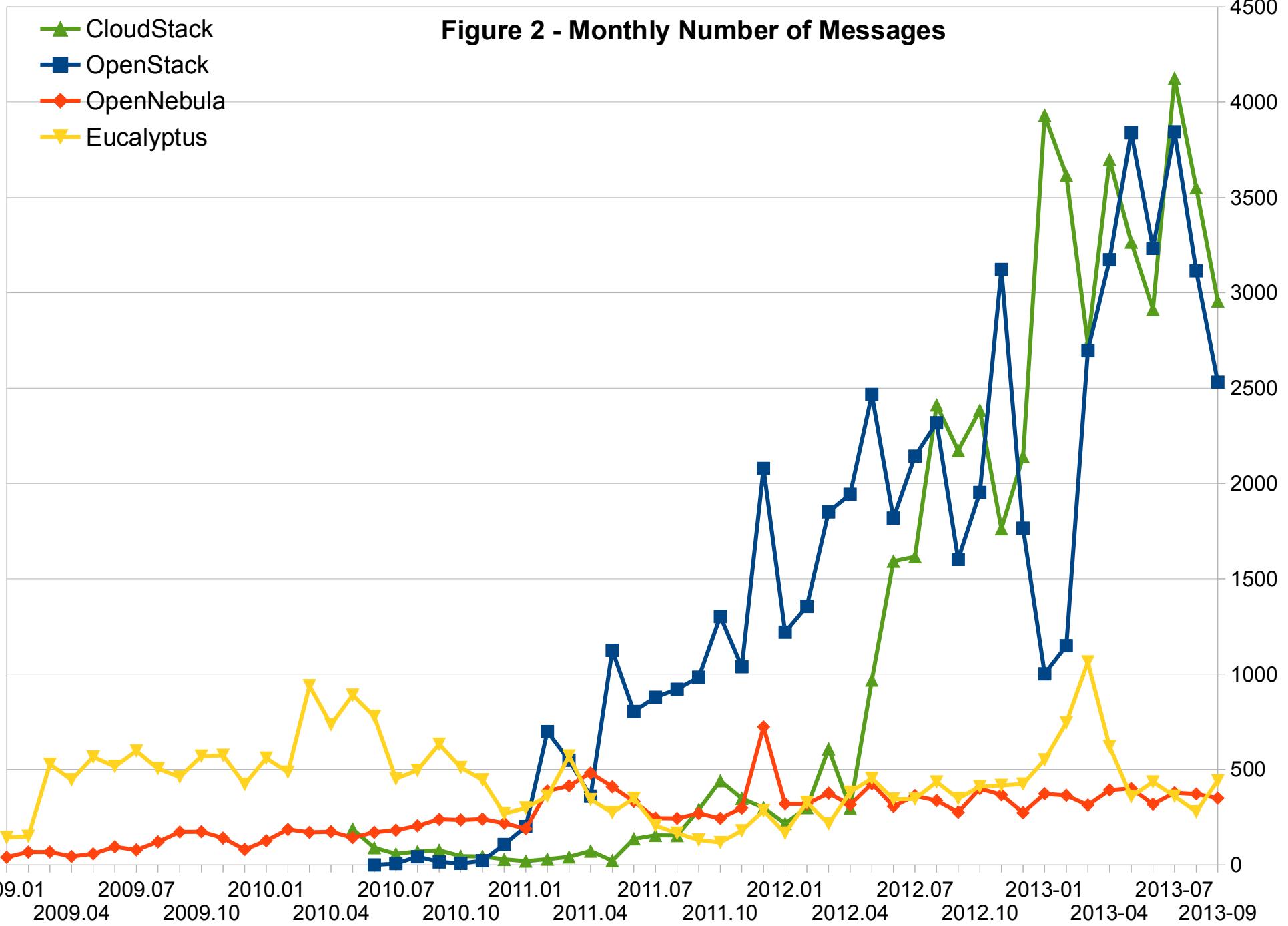
Qingye Jiang (John)
qjiang@ieee.org

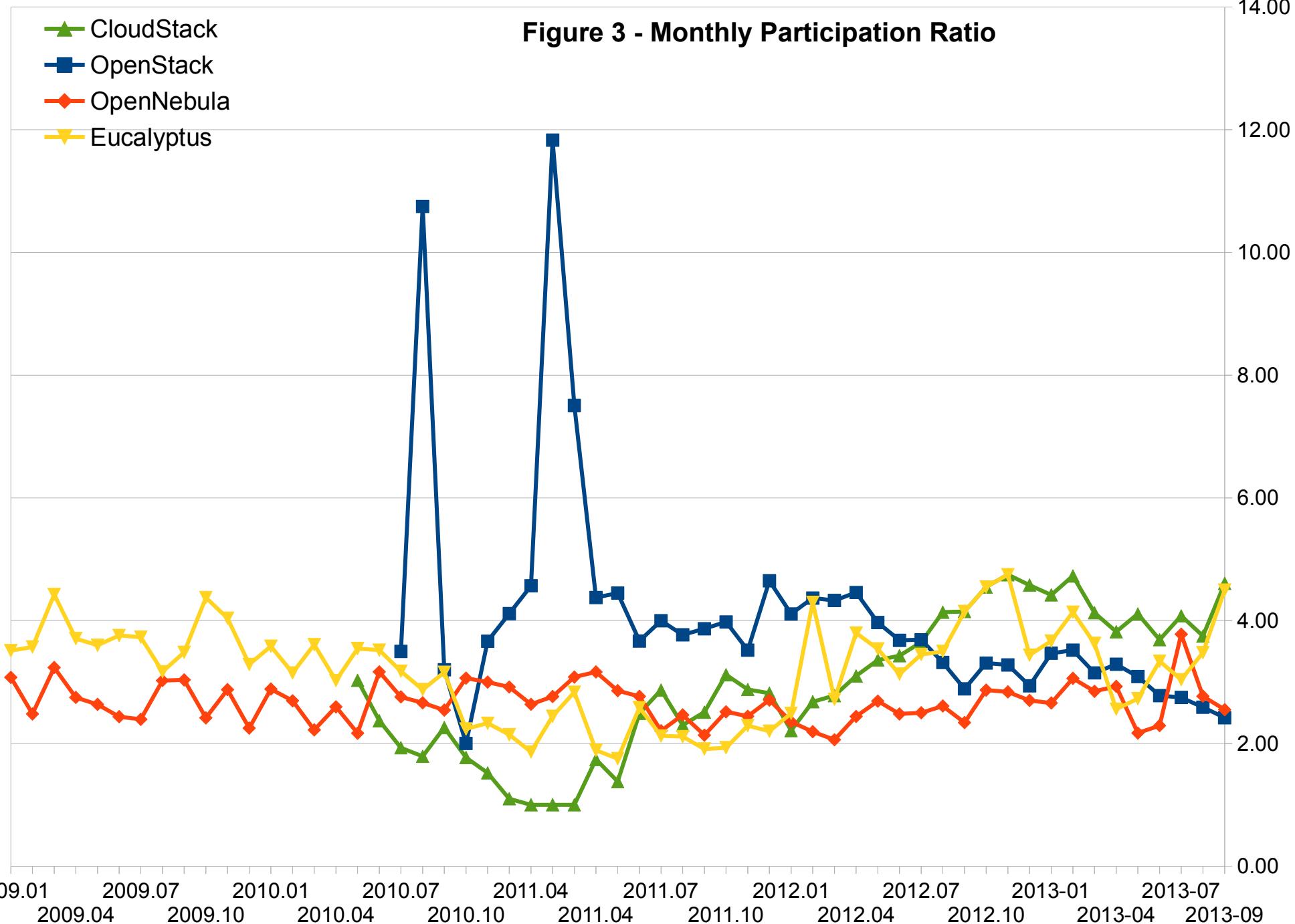
Sina weibo: [@qyjohn_](https://weibo.com/qyjohn_)

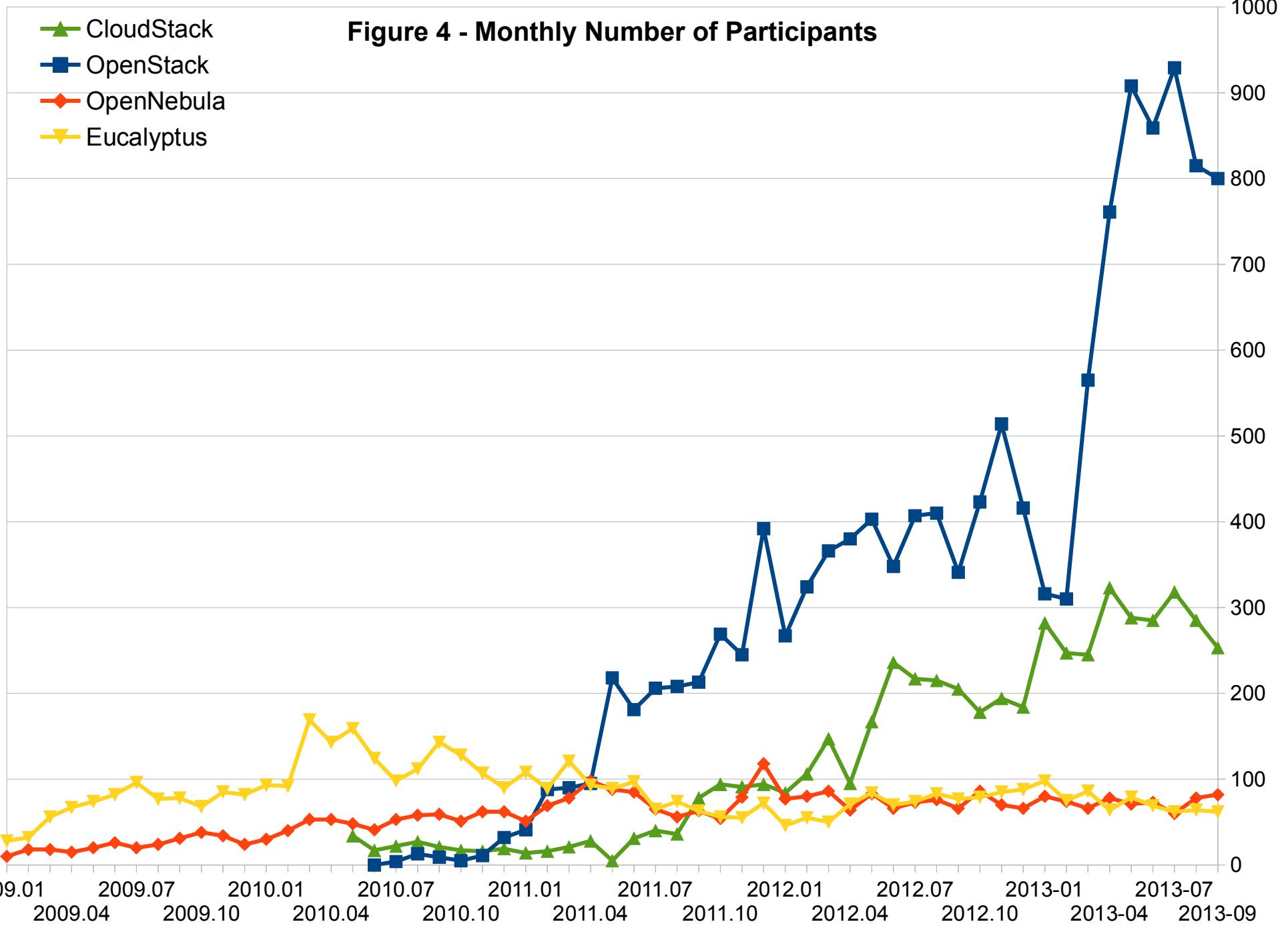
Discussion Data Source

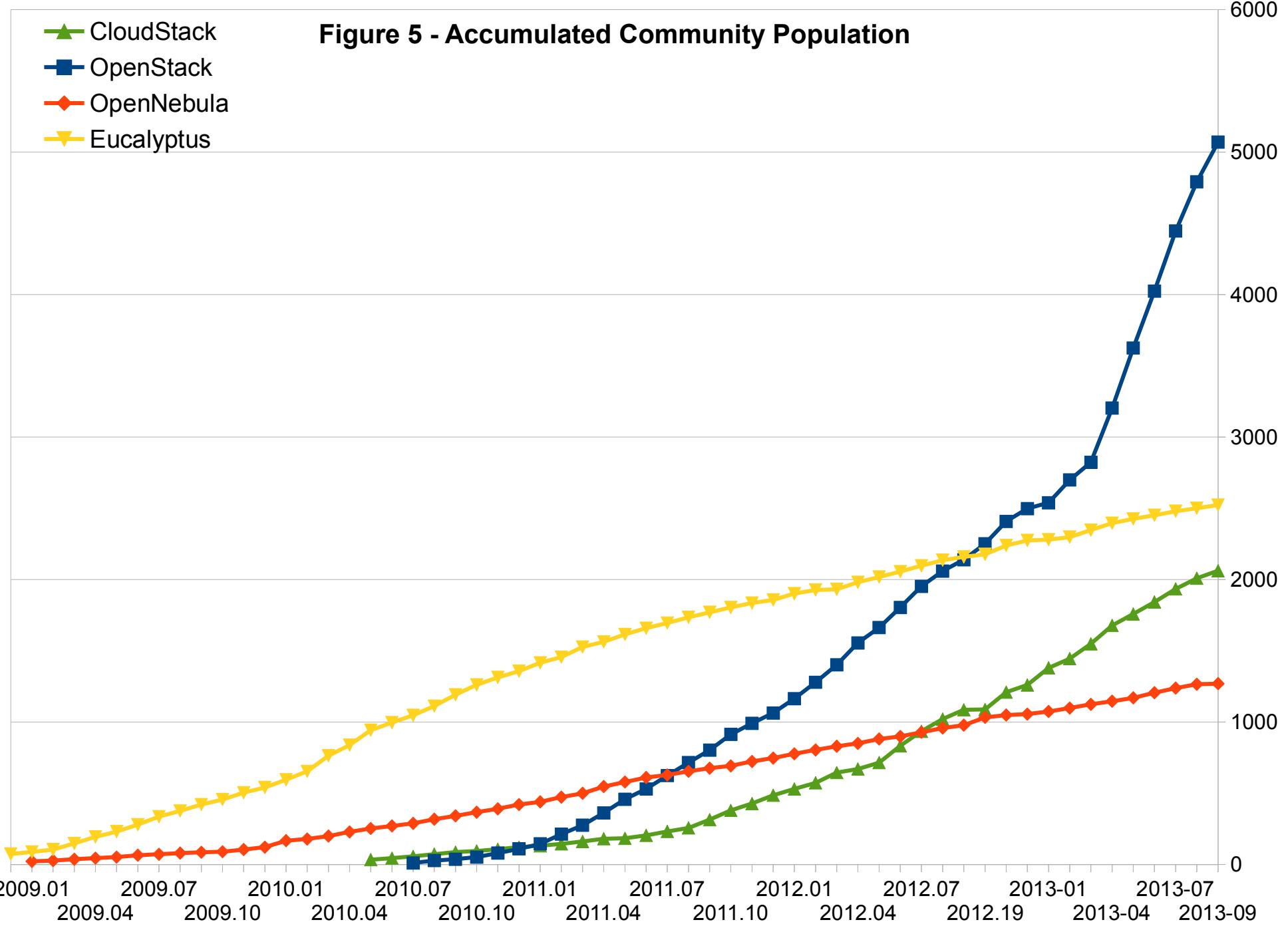
- OpenStack
 - <https://lists.launchpad.net/openstack/>
 - <https://answers.launchpad.net/openstack/>
 - http://lists.openstack.org/pipermail/*/
 - <https://ask.openstack.org/>
- OpenNebula
 - <http://lists.opennebula.org/pipermail/users-opennebula.org/>
 - <http://lists.opennebula.org/pipermail/ecosystem-opennebula.org/>
 - <http://lists.opennebula.org/pipermail/interoperability-opennebula.org/>
- Eucalyptus
 - <https://engage.eucalyptus.com/customer/portal/topics/215645-general-discussions/questions>
 - <http://lists.eucalyptus.com/pipermail/community/> (Until 2013-01)
 - <https://groups.google.com/a/eucalyptus.com/forum/#!forum/euca-users>
- CloudStack
 - http://mail-archives.apache.org/mod_mbox/incubator-cloudstack-users/
 - http://mail-archives.apache.org/mod_mbox/incubator-cloudstack-dev/
 - http://mail-archives.apache.org/mod_mbox/incubator-cloudstack-users-cn/
 - <http://www.cloudstack.org/forum/index.html> (Until 2012-09)











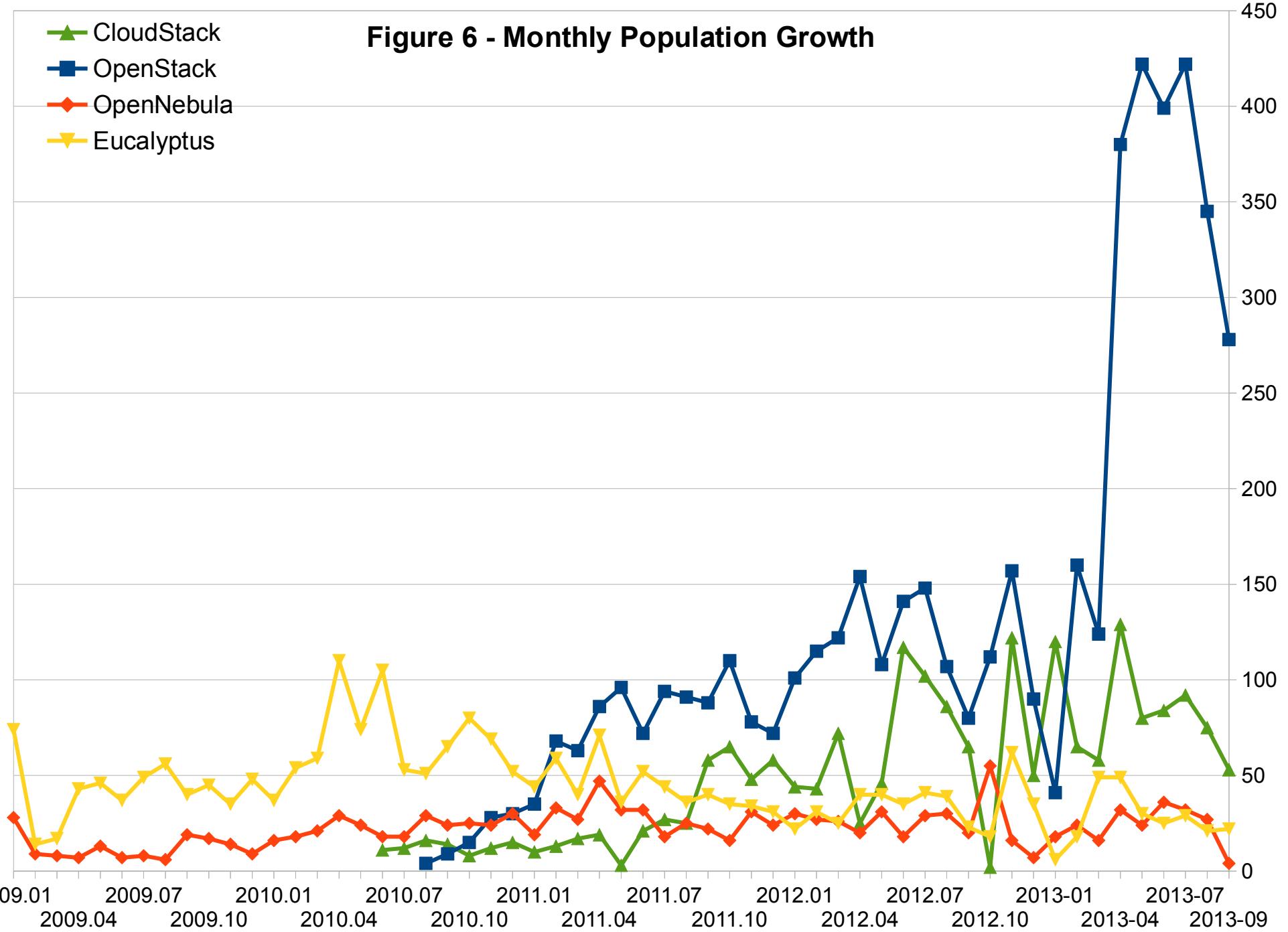


Figure 7 - Monthly Participants vs New Members

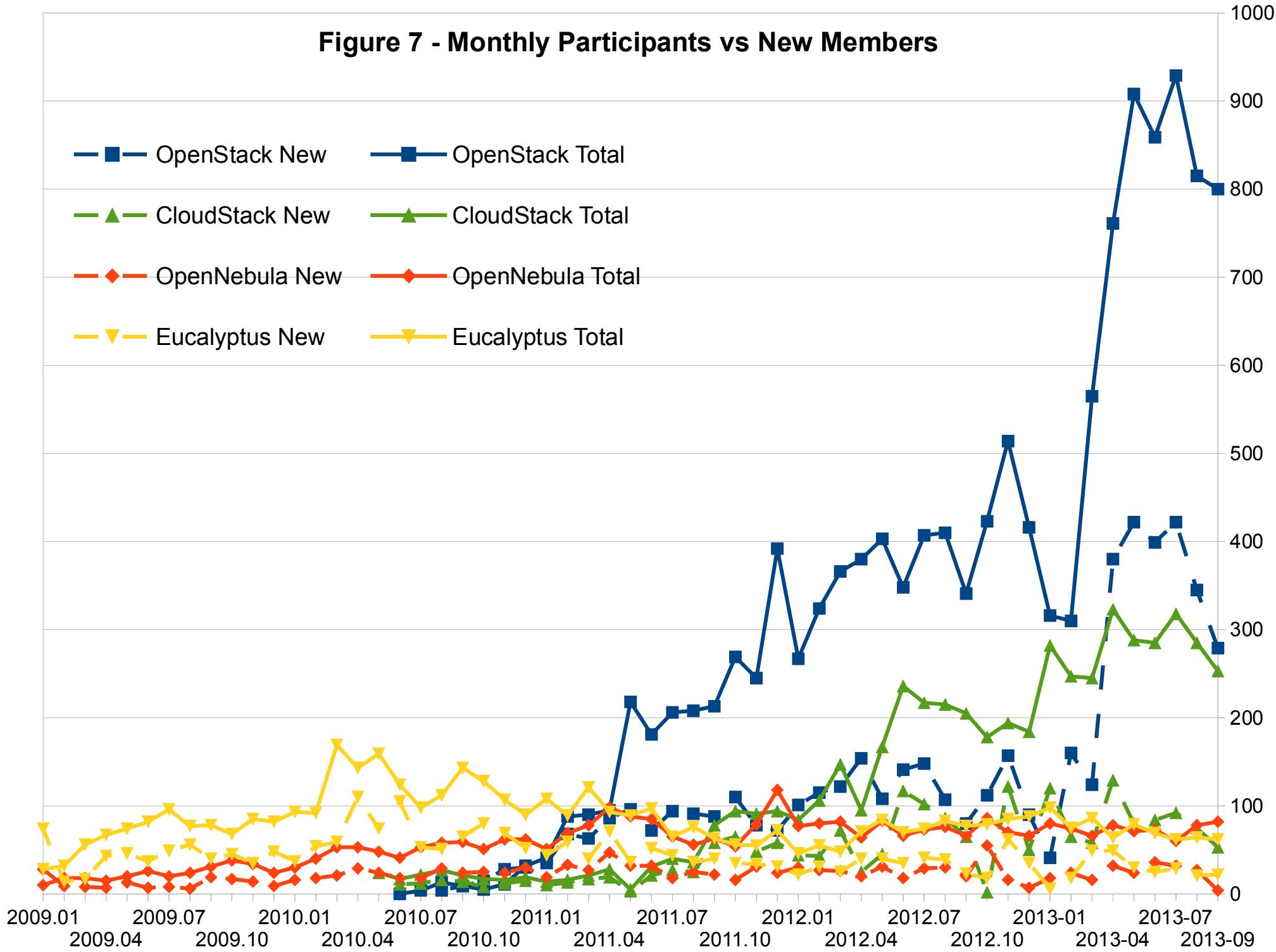


Figure 8 - Active Community Population

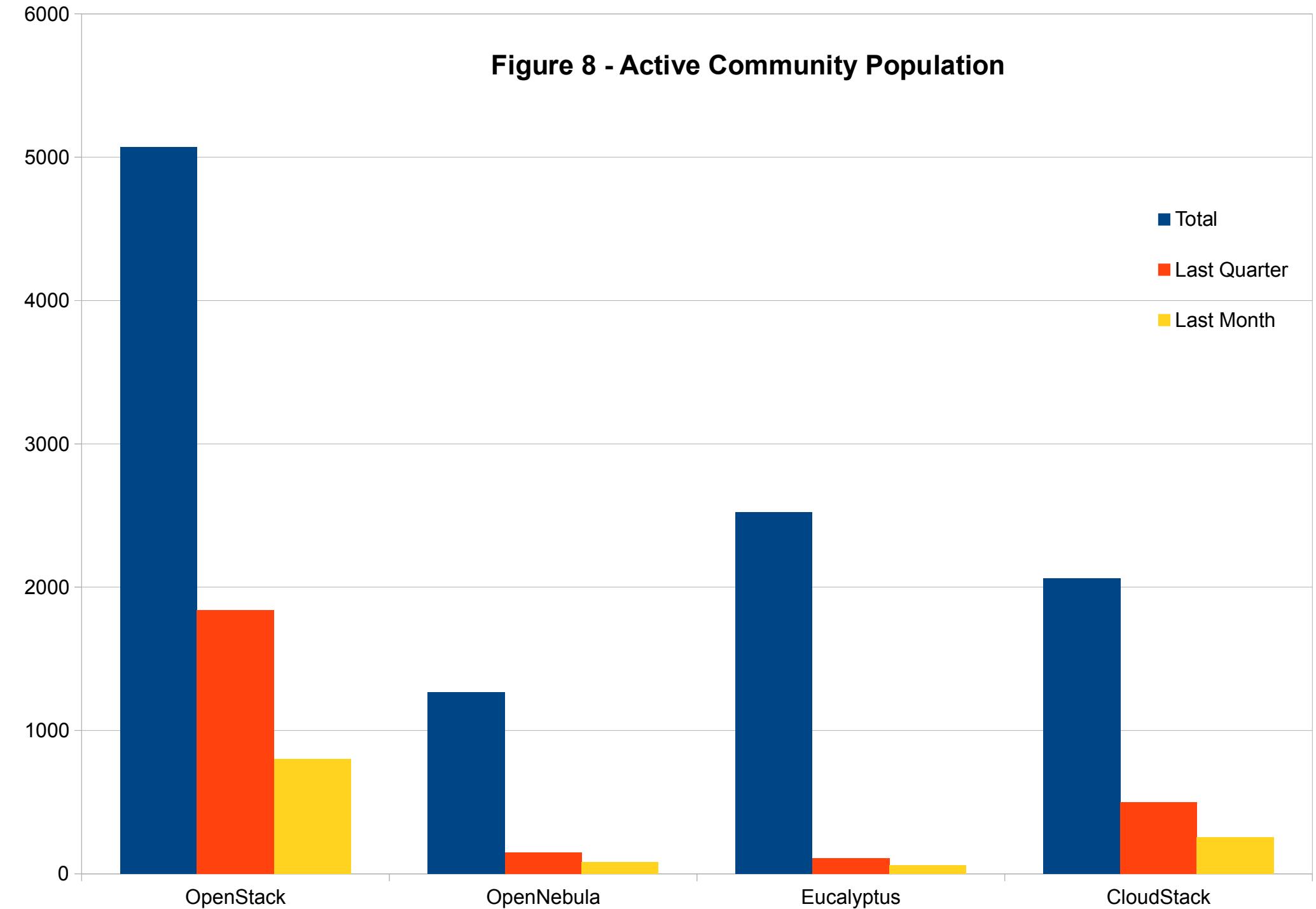


Figure 9 – Community Activeness Index

Computing the Reference Data Set

	OpenStack	OpenNebula	Eucalyptus	CloudStack	Average
Quarterly Messages	9492	1098	1078	10633	5575
Quarterly Participation Ratio	2.60	2.96	3.64	4.09	3.32
Quarterly Population	1840	150	108	499	649

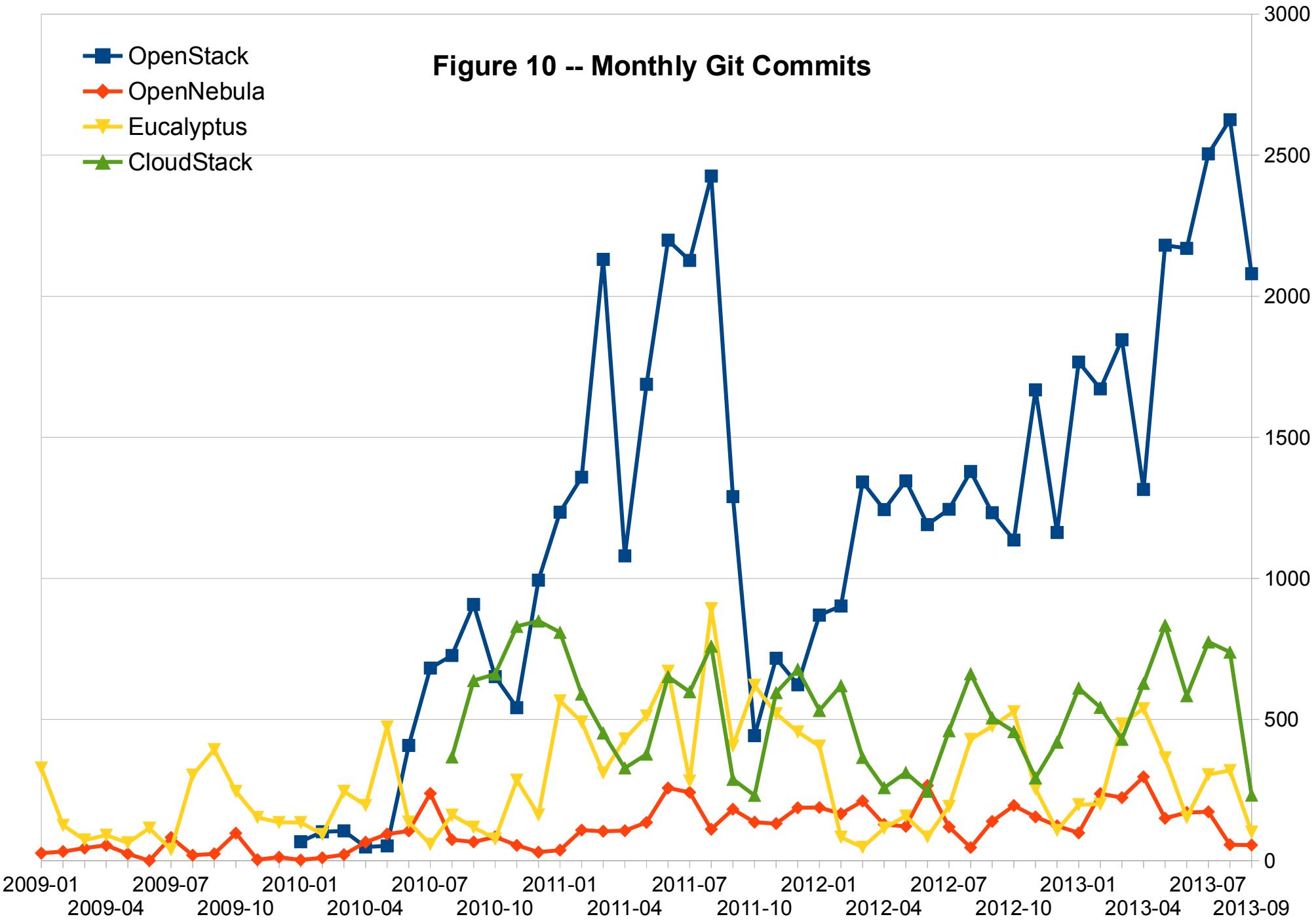
Computing the Activeness Index

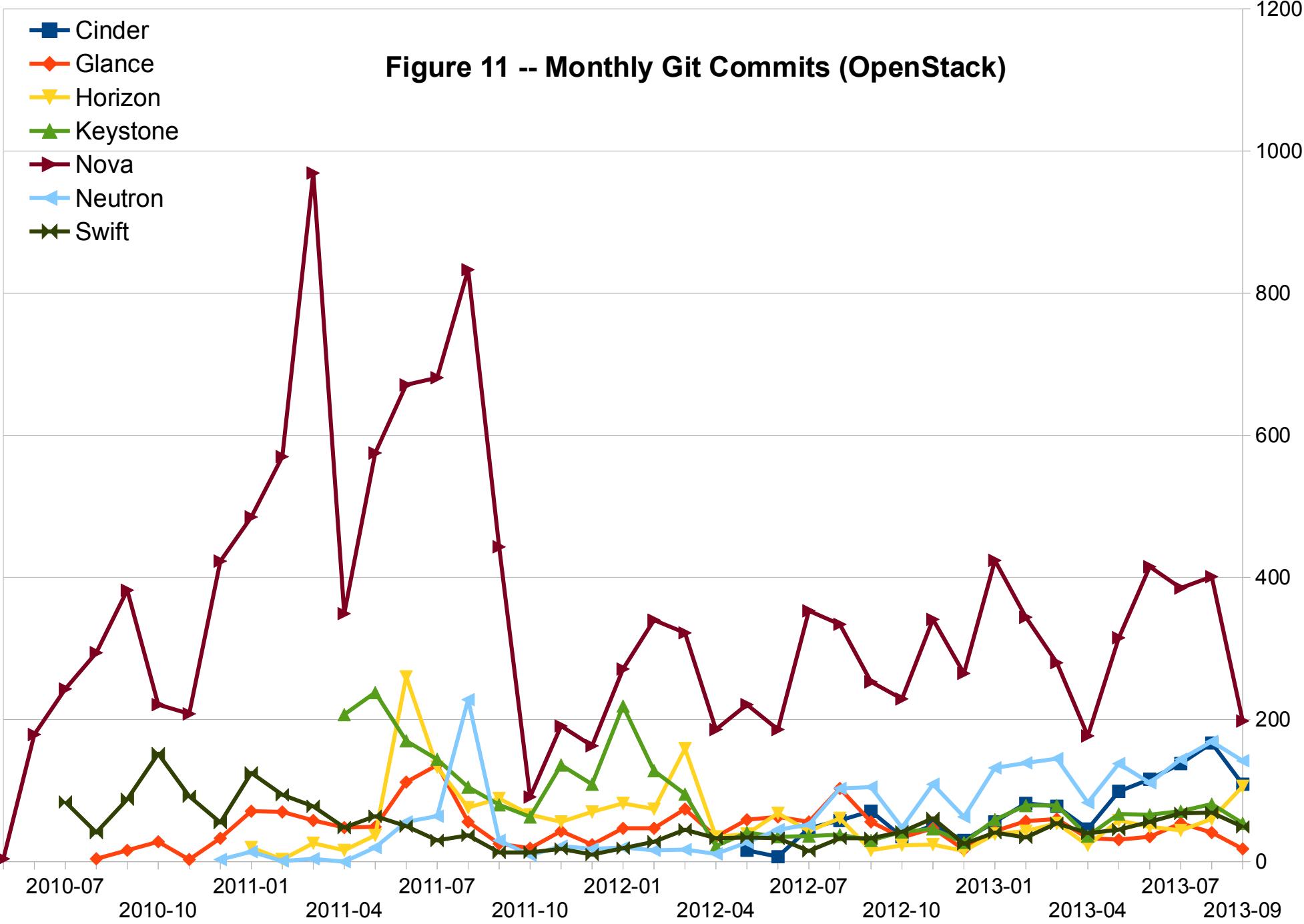
	Relative Quarterly Messages	Relative Quarterly Participation Ratio	Relative Quarter Population	Activeness Index
OpenStack	1.70	0.78	2.83	5.32
OpenNebula	0.20	0.89	0.23	1.32
Eucalyptus	0.19	1.09	0.17	1.46
CloudStack	1.91	1.23	0.77	3.91

Git Data Source

- OpenStack
 - <https://github.com/openstack/> (57 projects)
 - <https://github.com/openstack-infra/> (33 projects)
- OpenNebula
 - <https://git.opennebula.org/one.git>
- Eucalyptus
 - <https://github.com/eucalyptus/eucalyptus.git>
- CloudStack
 - <https://git-wip-us.apache.org/repos/asf/cloudstack.git>

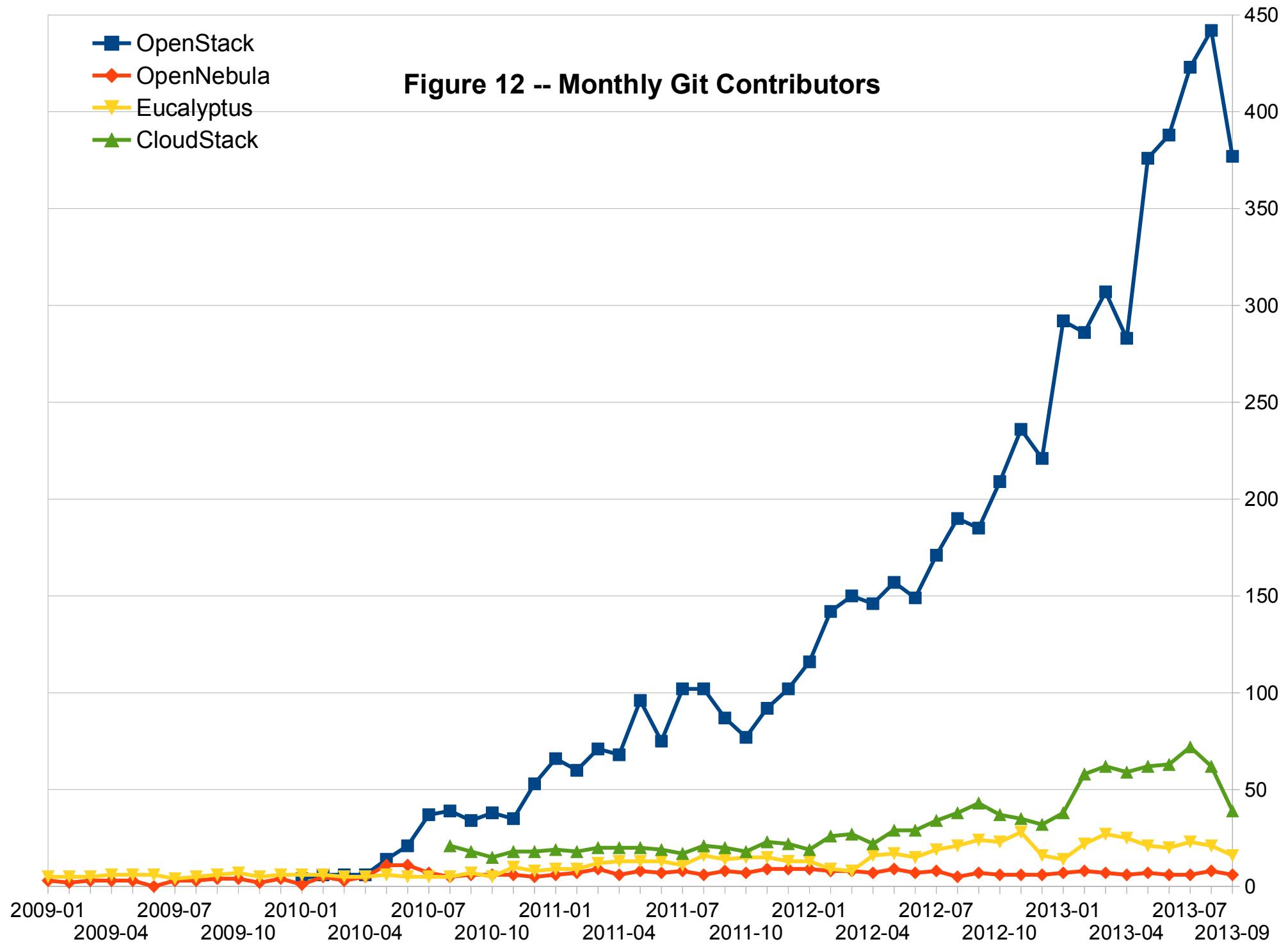
Figure 10 -- Monthly Git Commits





- OpenStack
- ◆ OpenNebula
- ▲ Eucalyptus
- ▲ CloudStack

Figure 12 -- Monthly Git Contributors



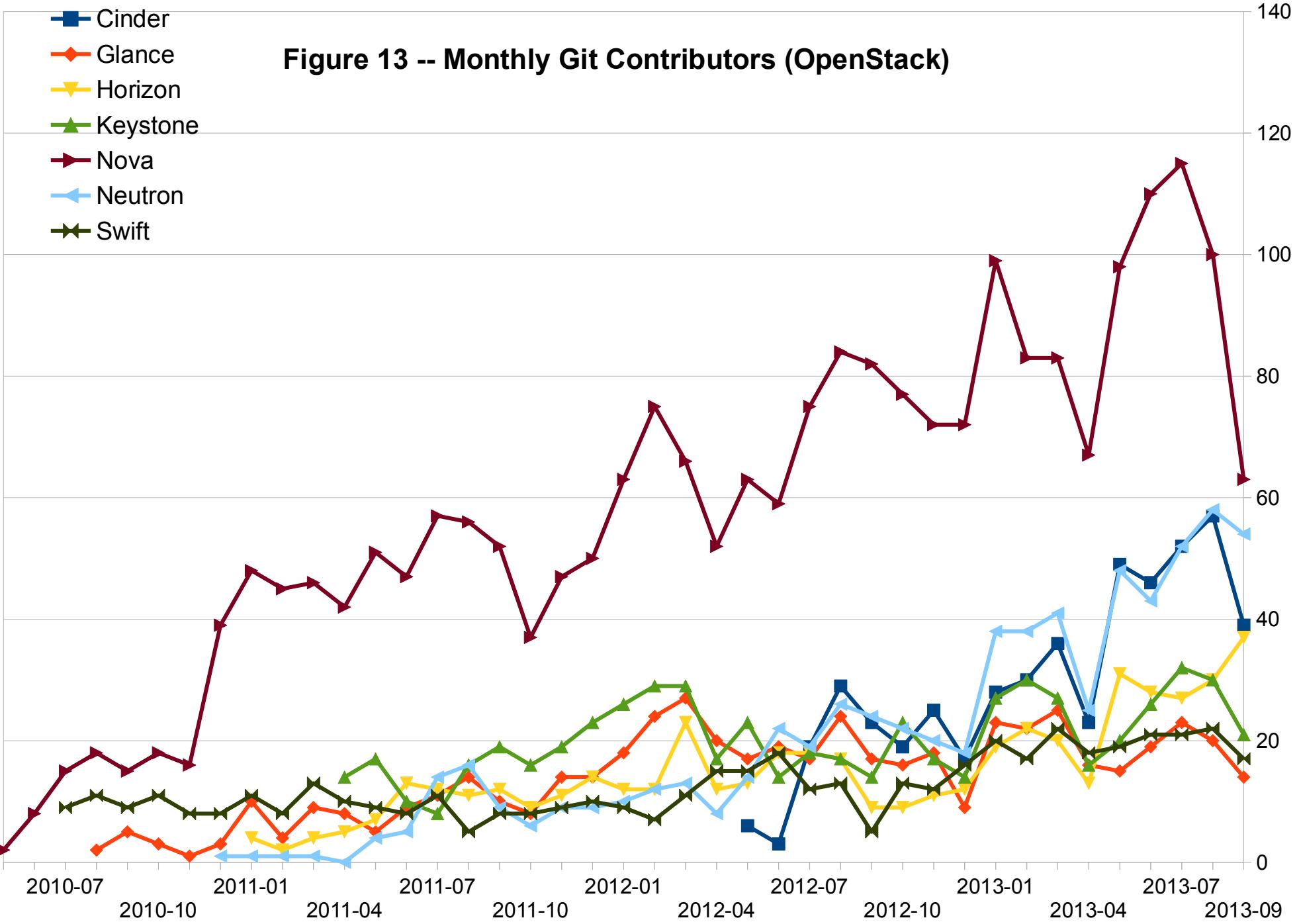


Figure 14 -- Monthly Git Domains

