CY13-Q4
Open Source IaaS Community Analysis
OpenStack vs OpenNebula vs Eucalyptus vs CloudStack

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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 1 - Monthly Number of Threads**
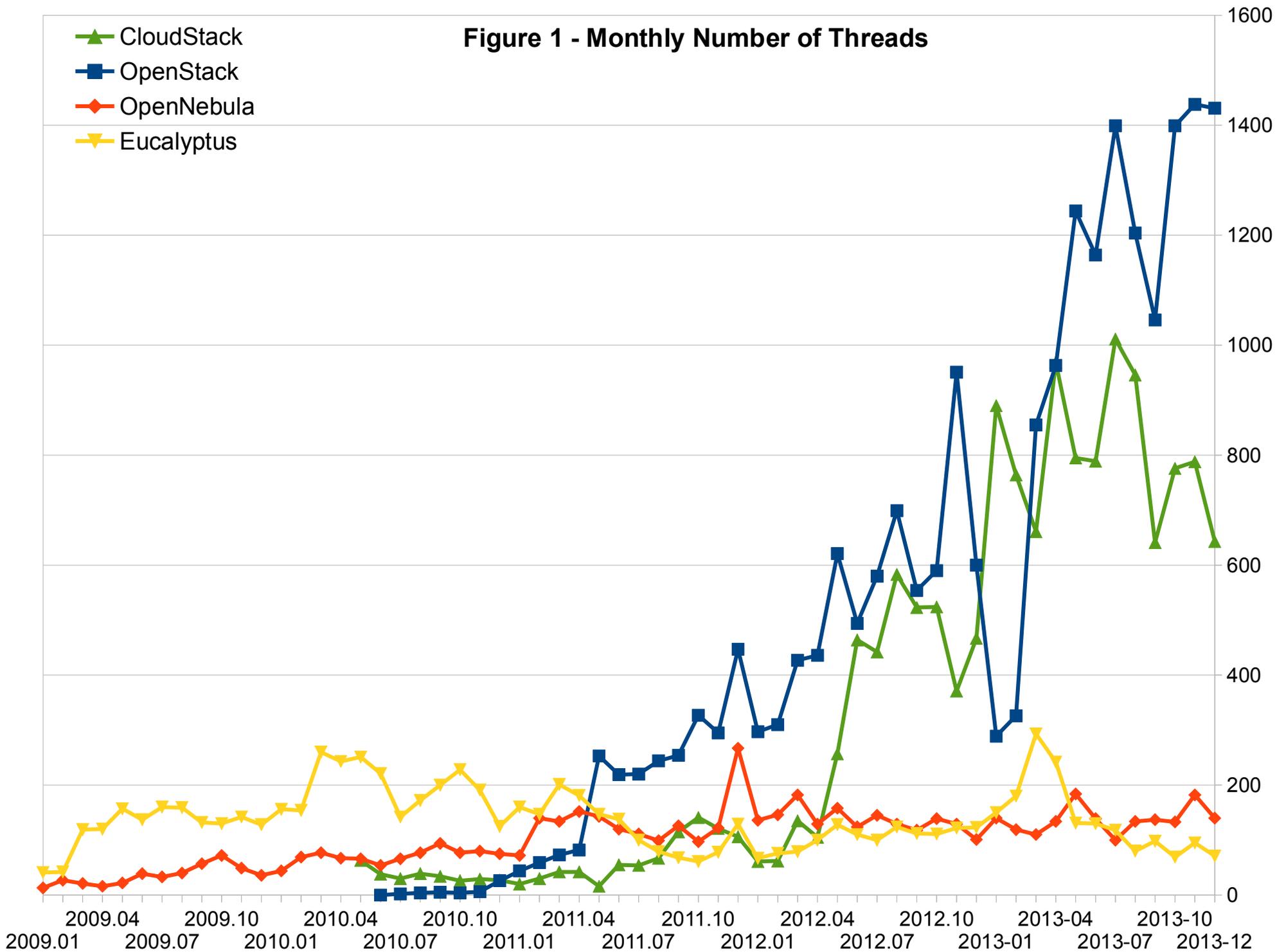
Figure 2 - Monthly Number of Messages
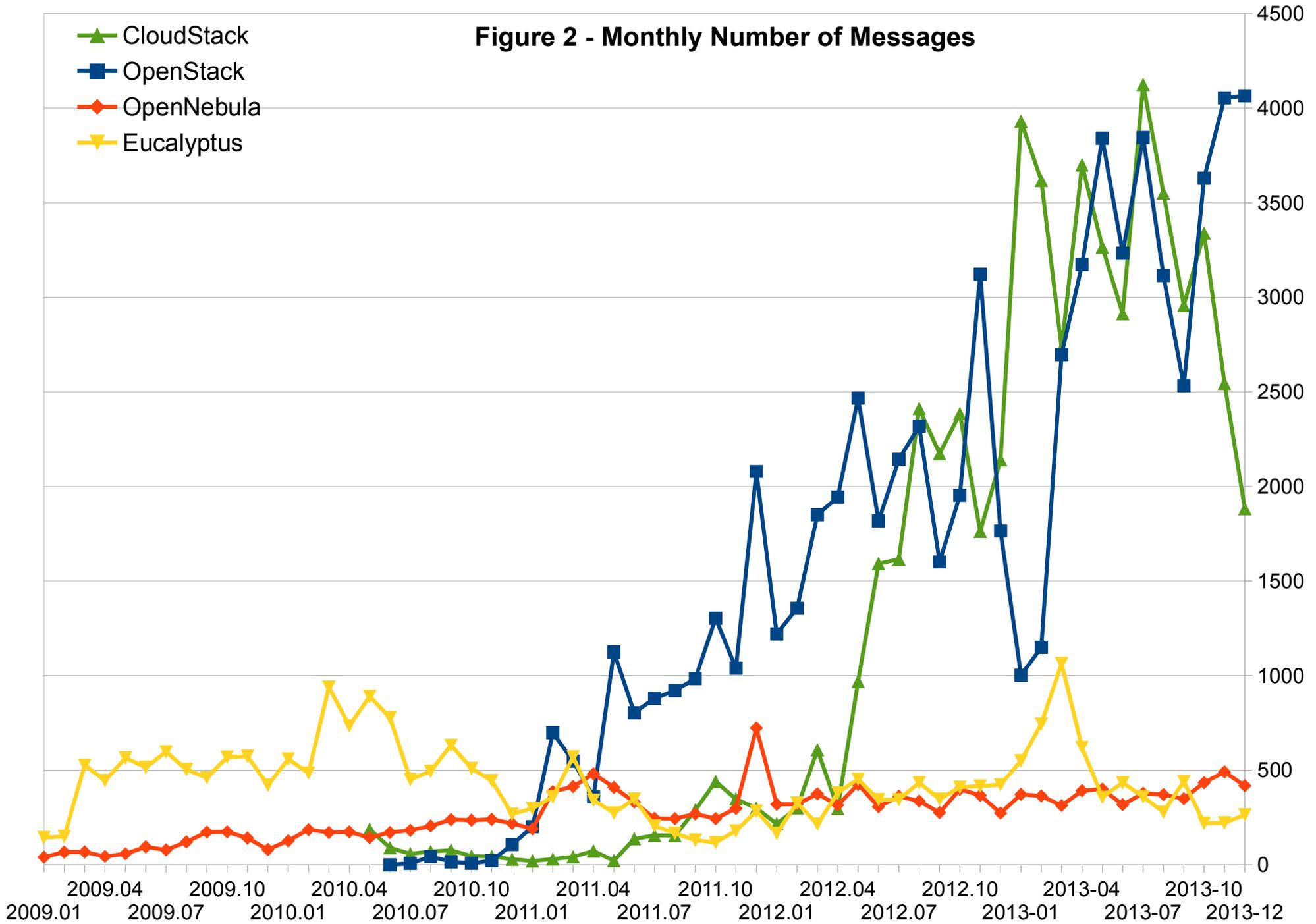
Figure 3 - Monthly Participation Ratio
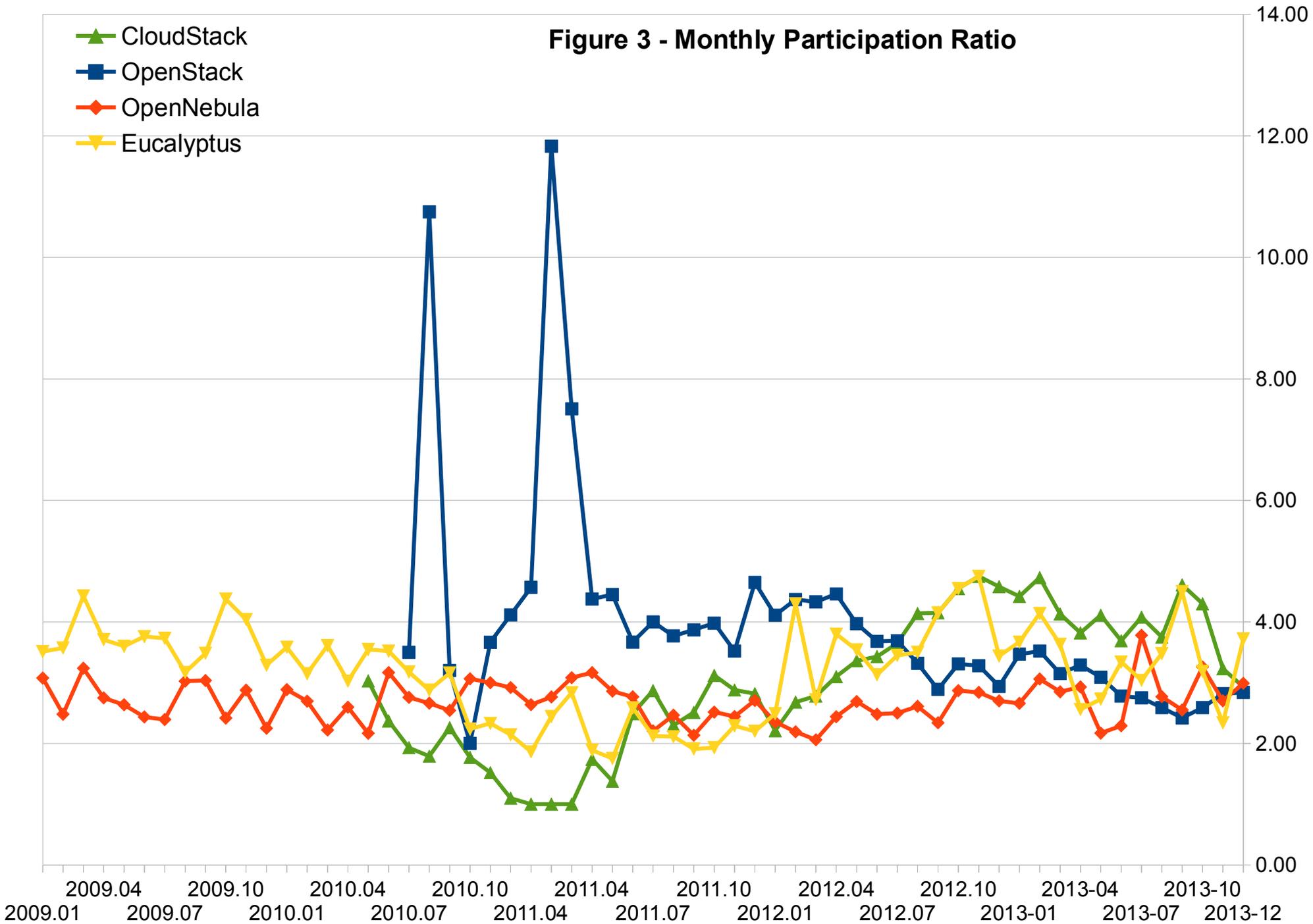
Figure 4 - Monthly Number of Participants
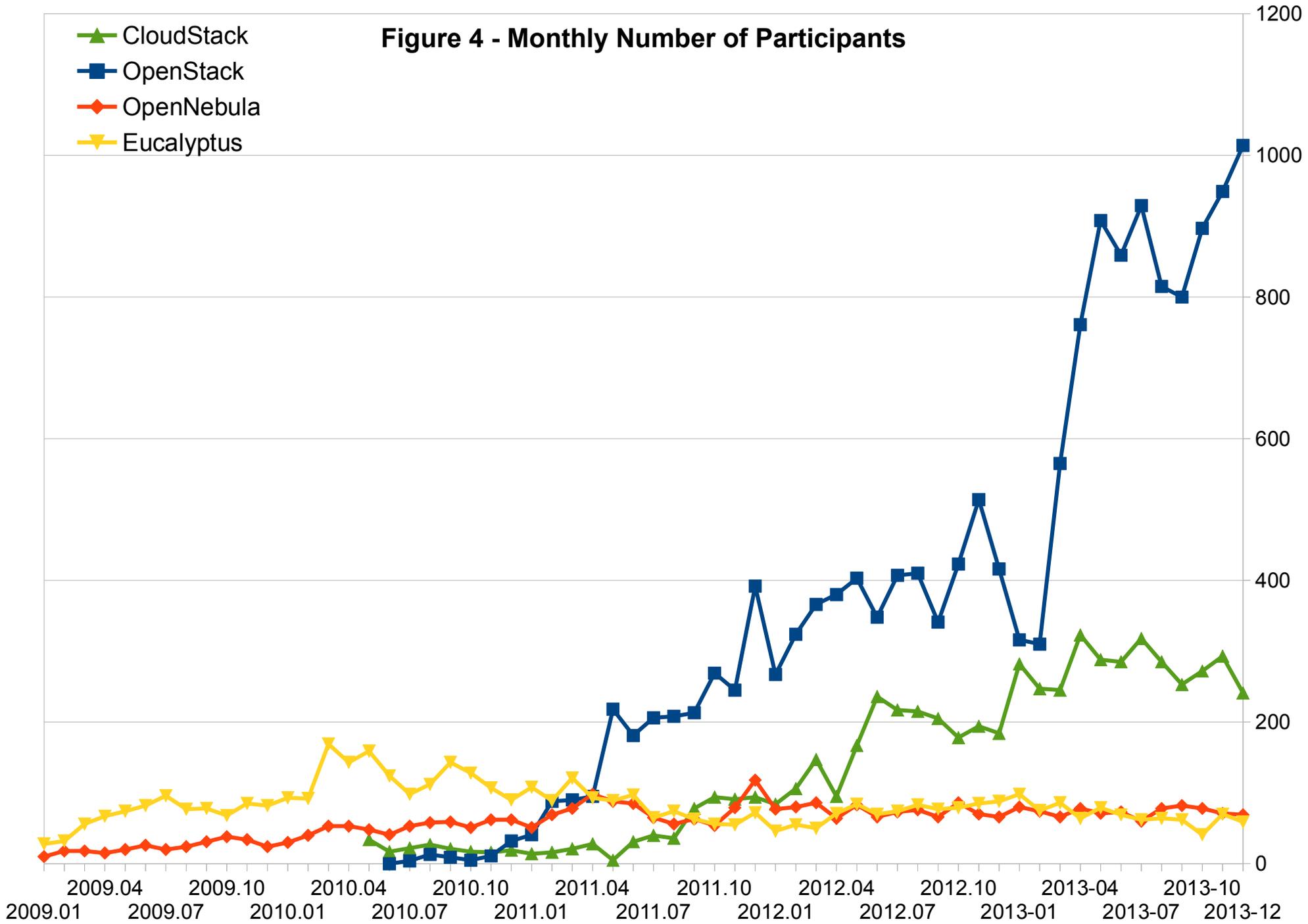
Figure 5 - Accumulated Community Population
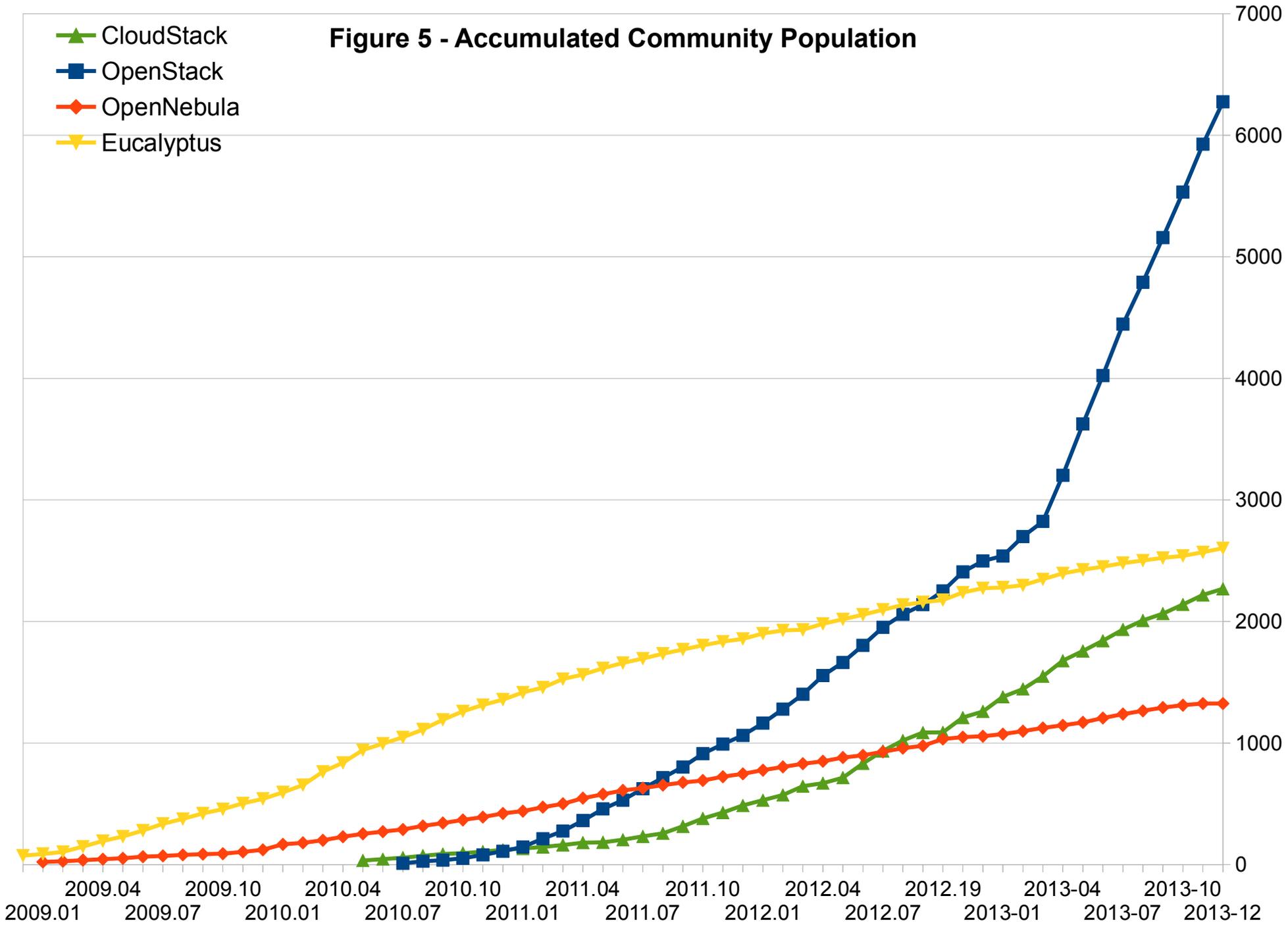
Figure 6 - Monthly Population Growth

Figure 7 - Monthly Participants vs New Members
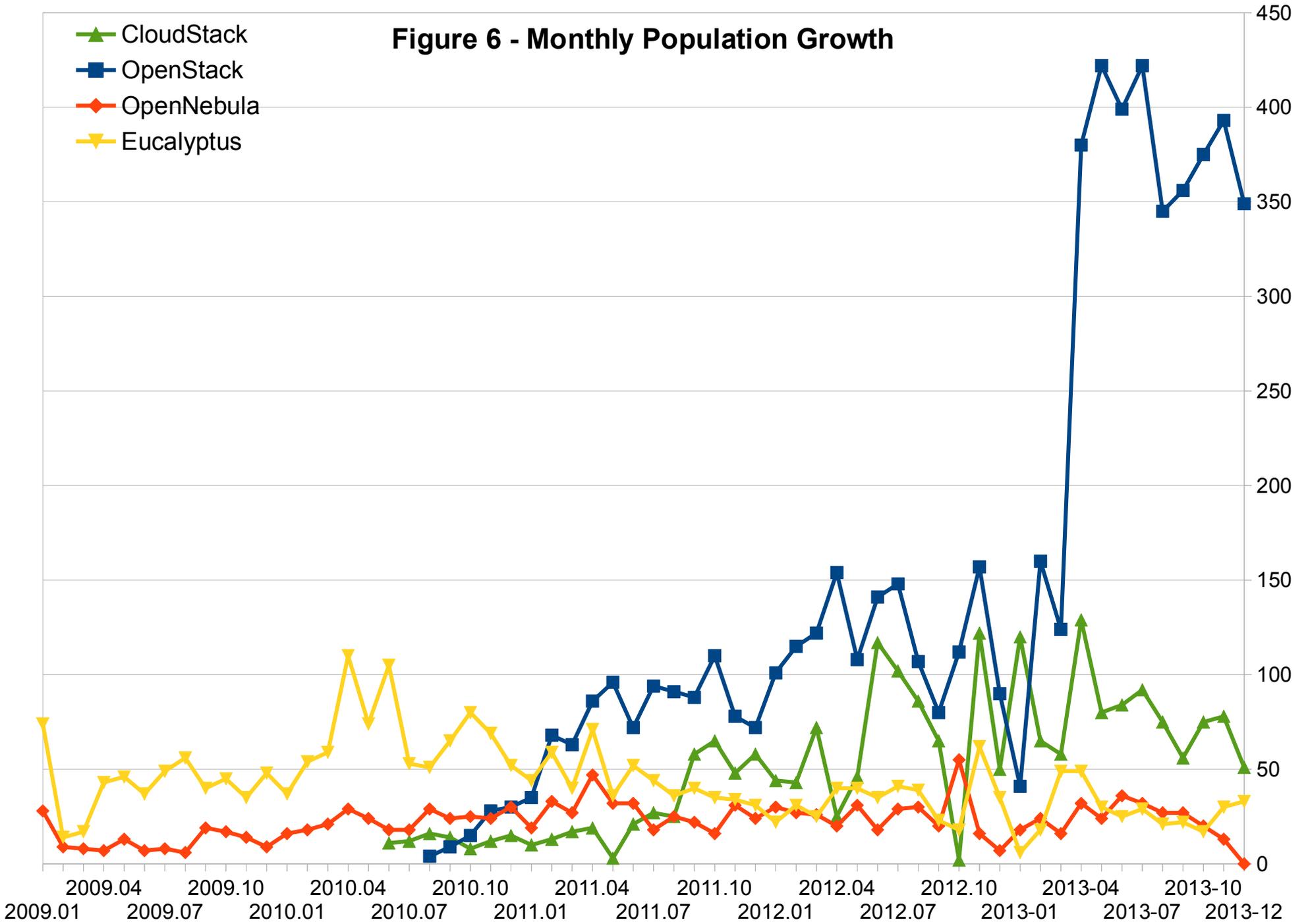
Figure 8 - Active Community Population
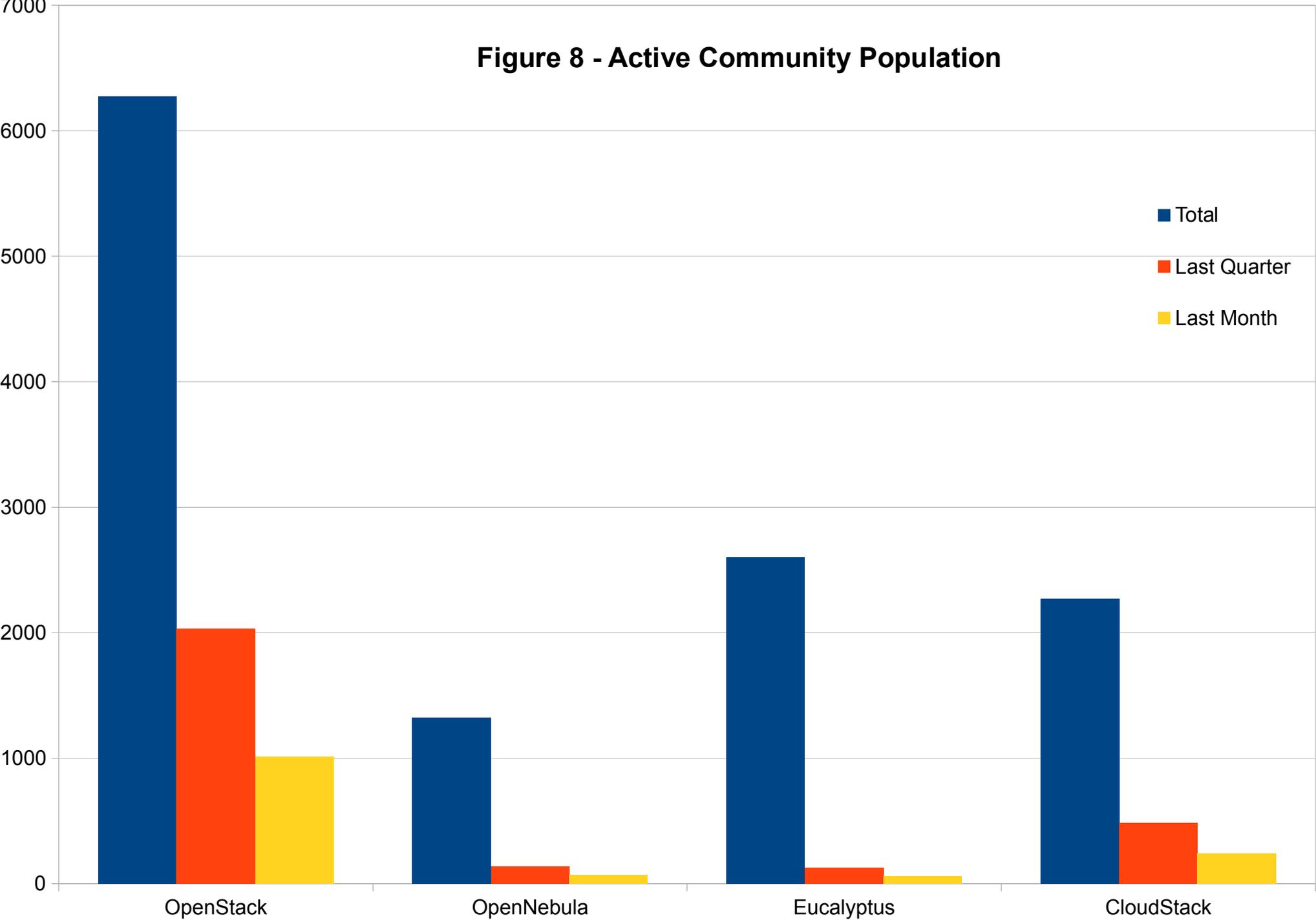
Figure 9 – Community Activeness Index

Computing the Reference Data Set

	OpenStack	OpenNebula	Eucalyptus	CloudStack	Average
Quarterly Messages	11749	1343	706	7767	5391
Quarterly Participation Ratio	2.75	2.95	3.00	3.52	3.06
Quarterly Population	2031	139	126	383	649

Computing the Activeness Index

	Relative Quarterly Messages	Relative Quarterly Participation Ratio	Relative Quarter Population	Activeness Index
OpenStack	2.17	0.90	2.92	6.00
OpenNebula	0.25	0.97	0.20	1.42
Eucalyptus	0.13	0.98	0.18	1.29
CloudStack	1.44	1.15	0.70	3.29

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
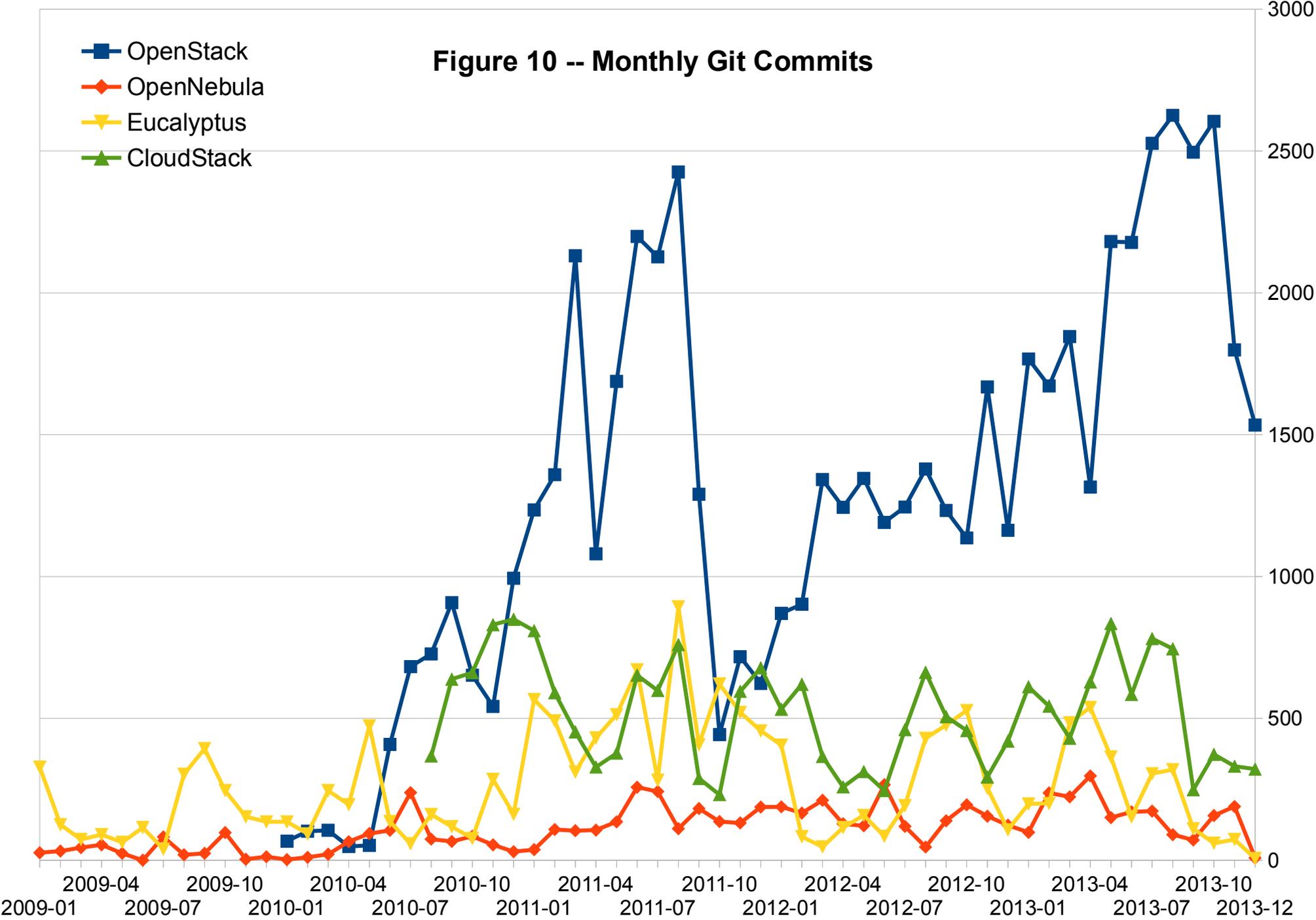
Figure 11 -- Monthly Git Commits (OpenStack)

Legend:
- Cinder
- Glance
- Horizon
- Keystone
- Nova
- Neutron
- Swift
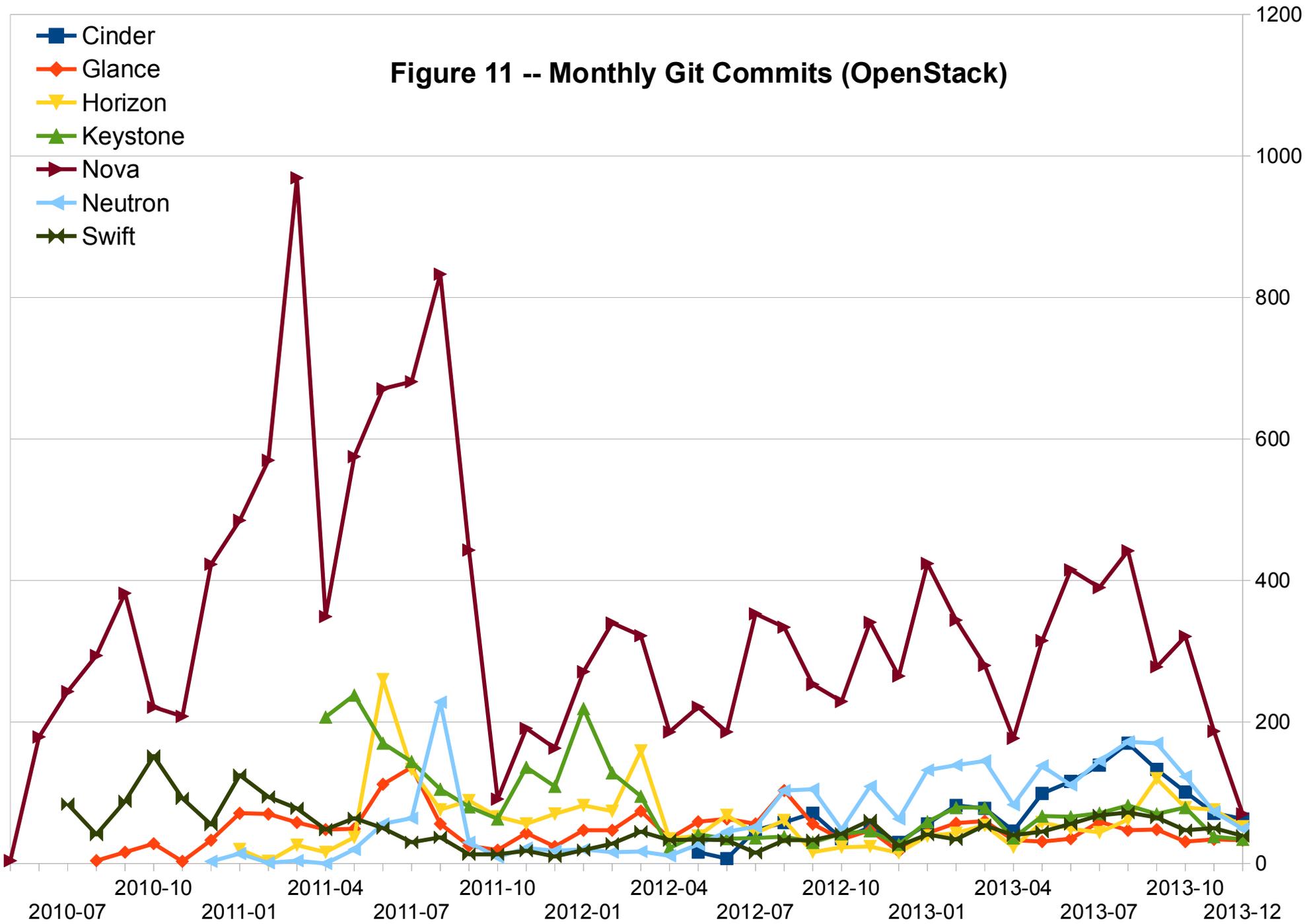
Figure 12 -- Monthly Git Contributors
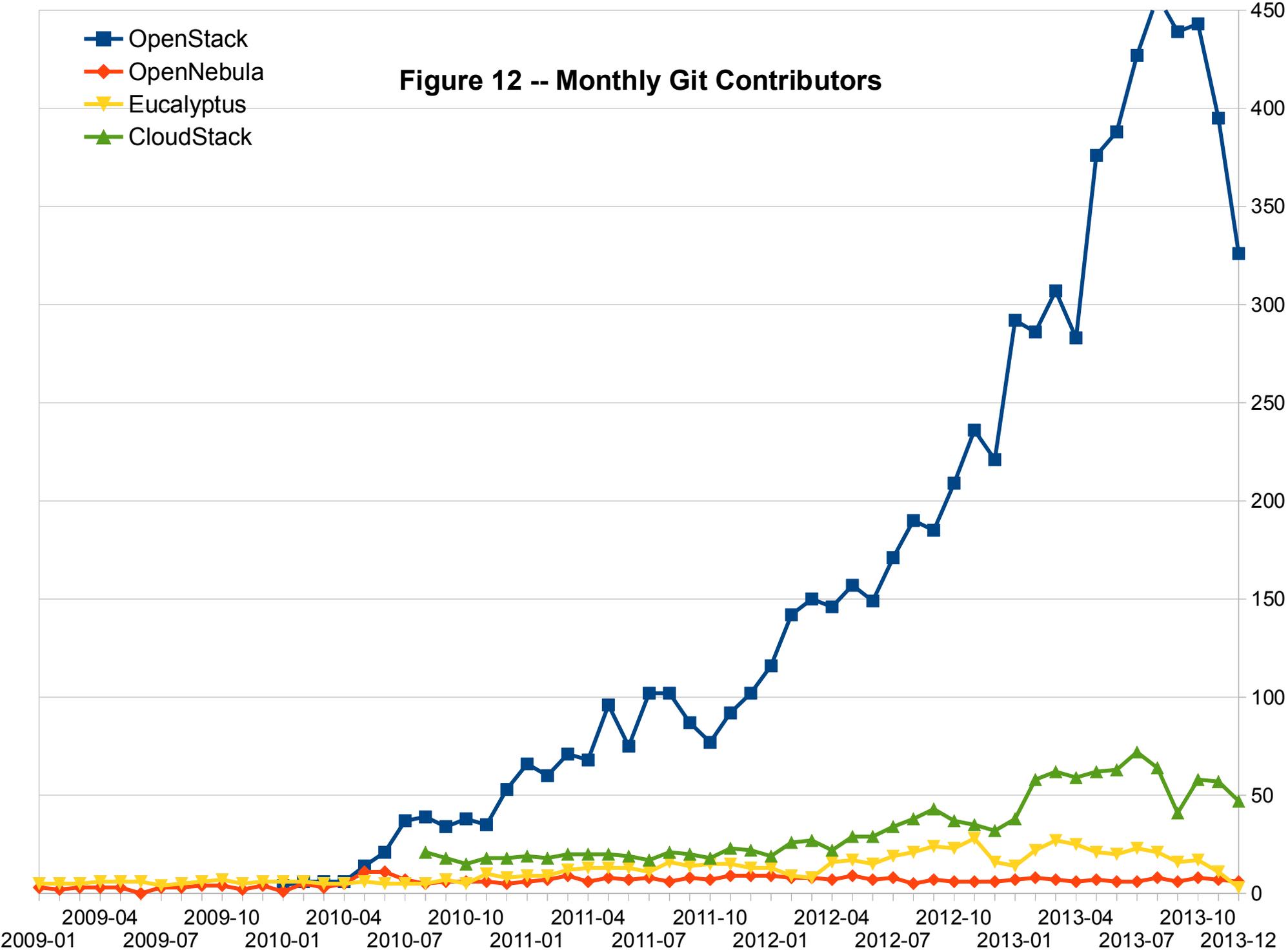
Figure 13 -- Monthly Git Contributors (OpenStack)
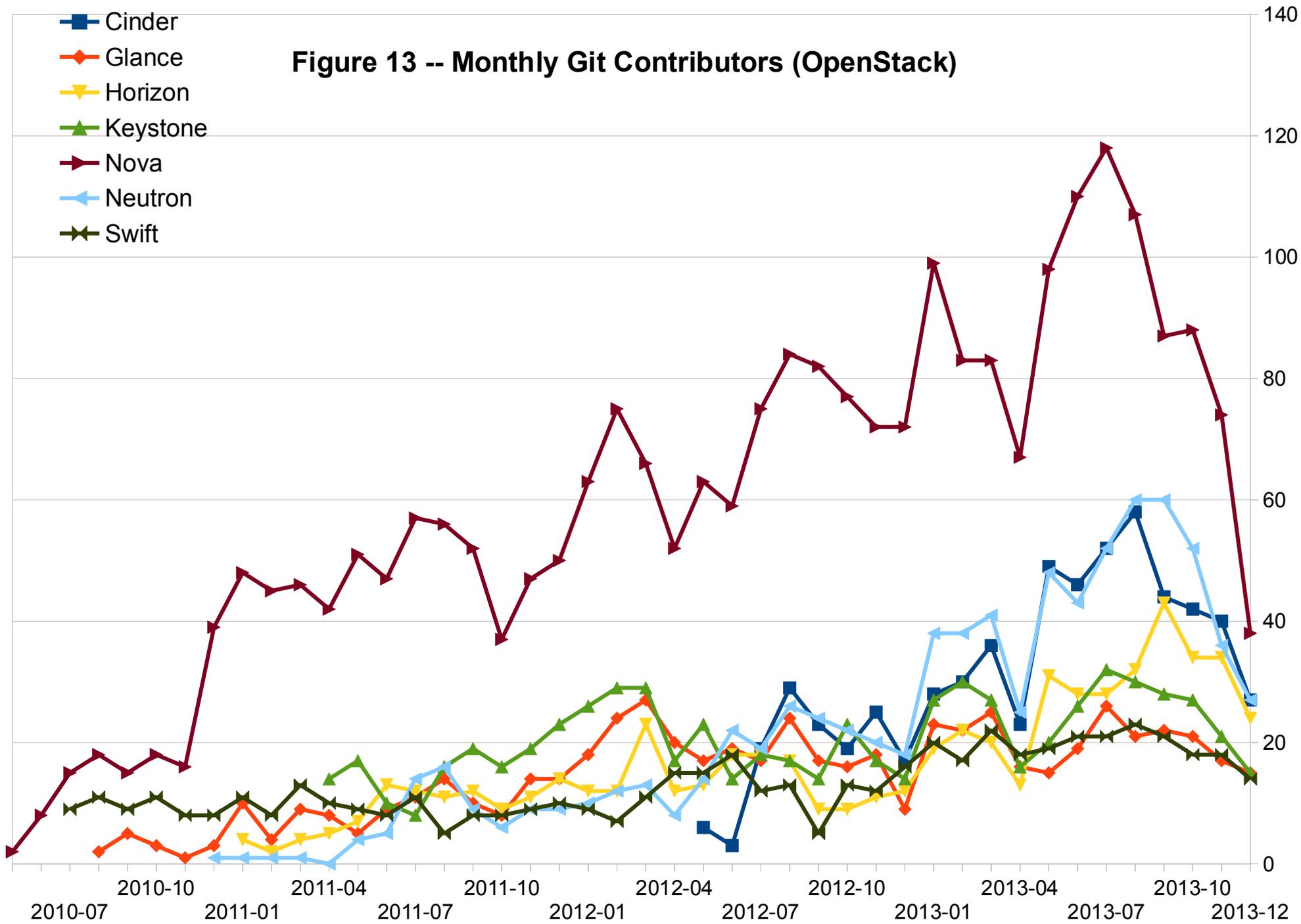
Figure 14 -- Monthly Git Domains
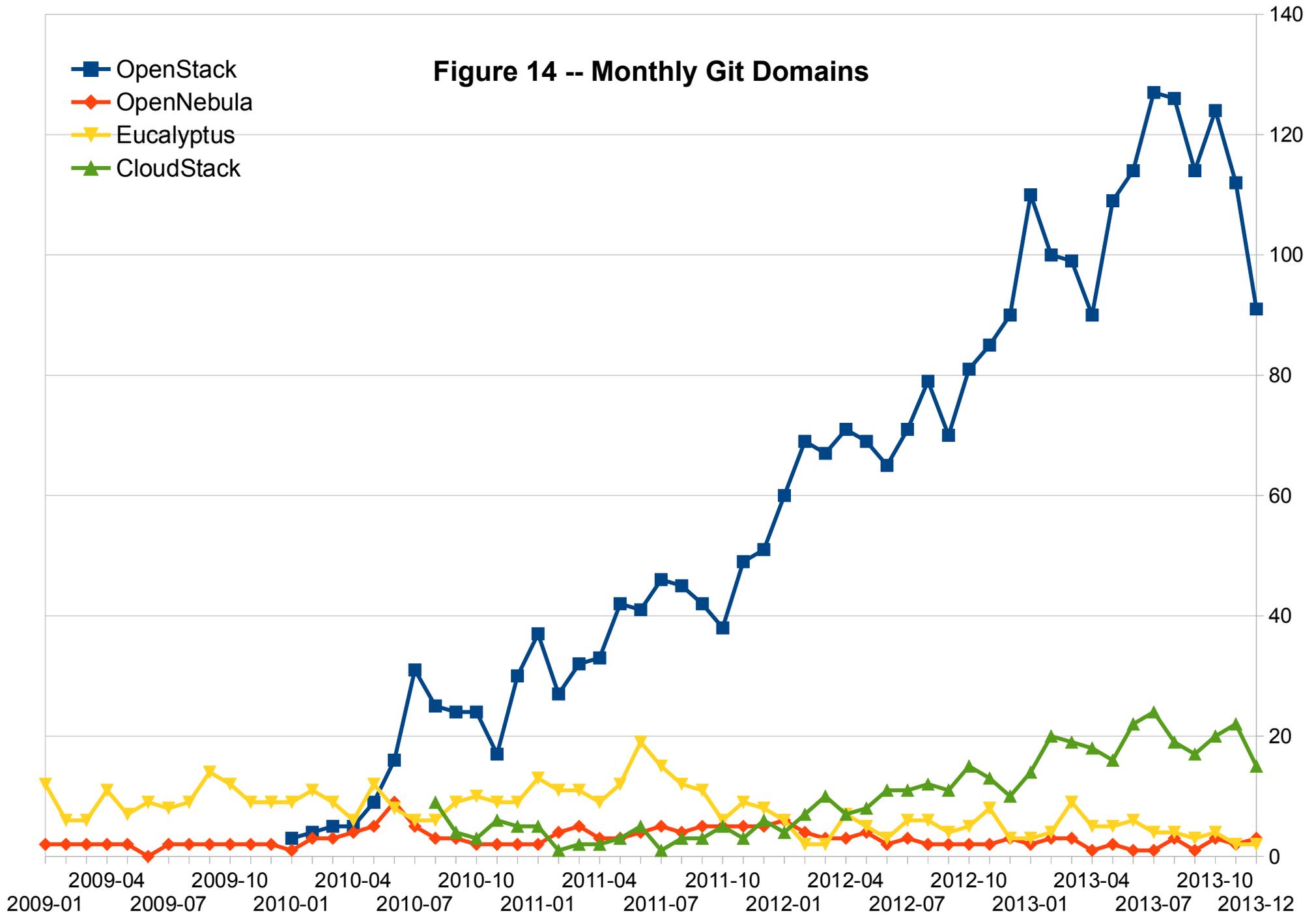
Figure 15 -- Monthly Git Domains (OpenStack)

Legend:
- Cinder
- Glance
- Horizon
- Keystone
- Nova
- Neutron
- Swift
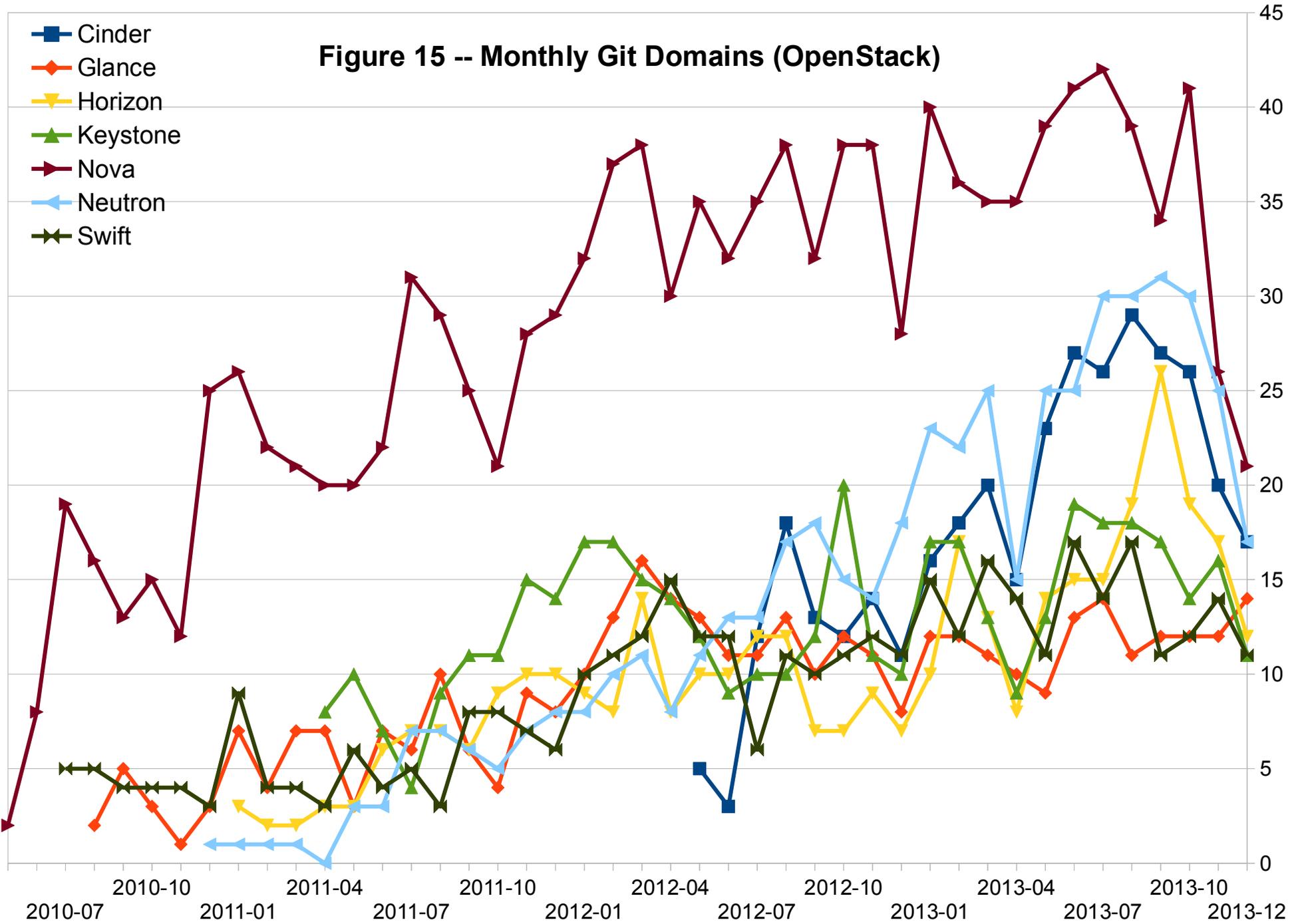
Figure 16 -- Accumulated Developer Population
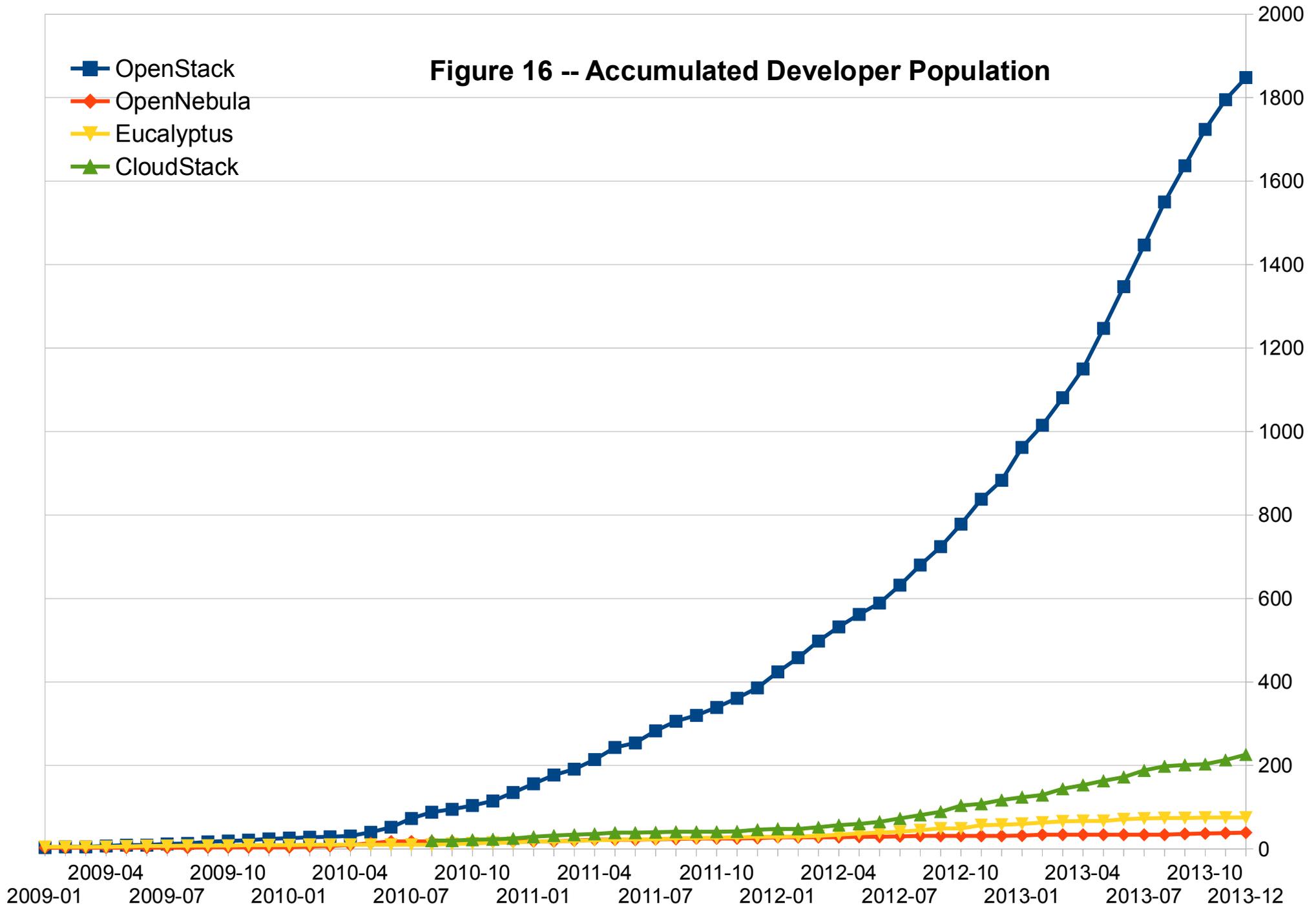
Figure 17 -- Accumulated Contributing Organizations