

Ganglia Overview

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Overview

Aimed at HPC environments

Three main components : gmond gmetad gweb

Developed on Github

gmond

Metric collection agent

Written in C

Accept and Send channels

UDP and TCP transports

Send and collect intervals configurable (per metric)

Extensible Module format (python + C)

gmetad

Written in C (python impl is being worked on)

Two different modes (normal , “scalable”)

Receives data , saves in RRDs

Produces XML to requesting clients

Organised in a tree:

Grid => Cluster => Node

A note on RRDs

Round robin database – old values lost

Multiple RRAs per rrd

Format: RRA:AVERAGE:0.5:24:61

Important to think about size and scale

- Do you REALLY need 1 value per second?

Ganglia-Web

Written in PHP \o/

Can drill down from:

overview->cluster->node-metric

Web frontend (also mobile version)

Good inspection functionality

STOP!

DEMO TIME!