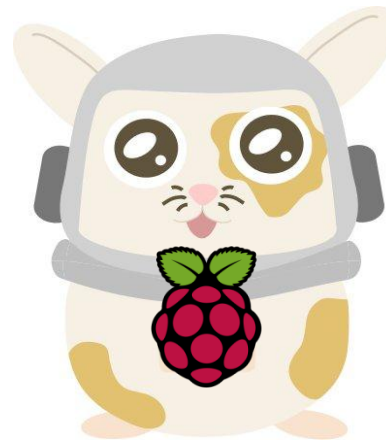


Performant and Future Proof: MySQL, Memcache and Raspberry Pi

Martin Hellmich

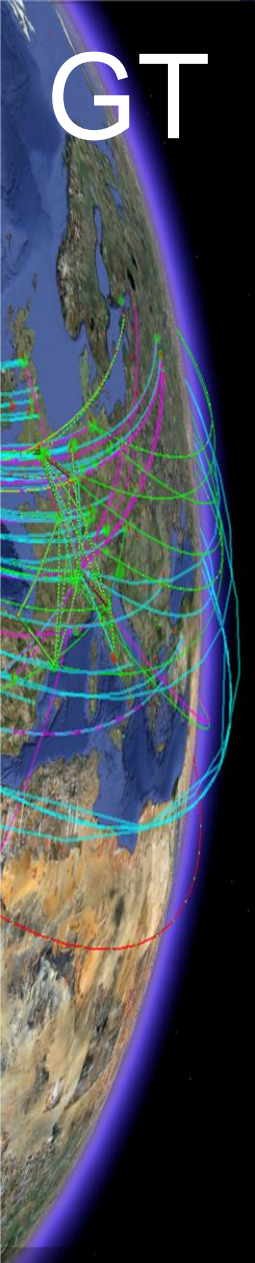
(on behalf of the LCGDM team)



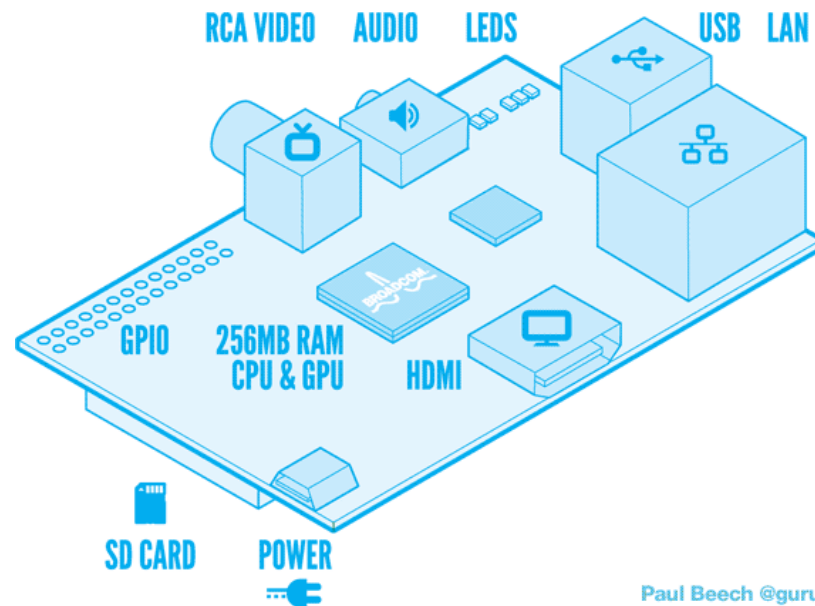
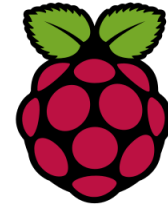
EMI INF SO-RI-261611



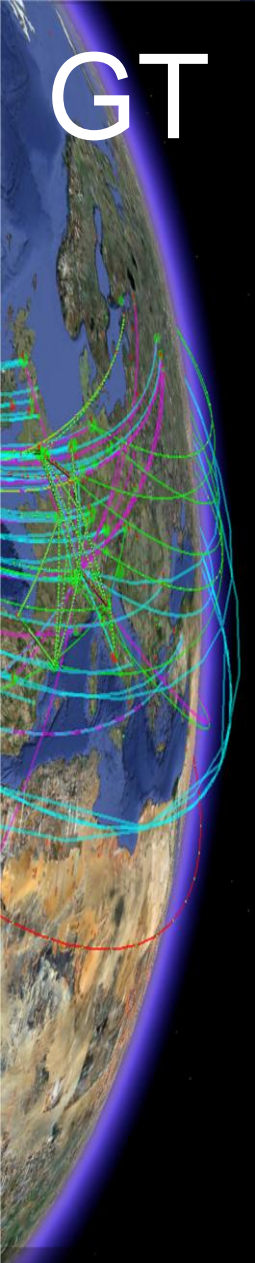
1. Dmlite on a Raspberry Pi
2. Using memcached for speedup
3. HTTP load balancing



- 700 MHz ARM11
- 256 MByte RAM
- 35US\$

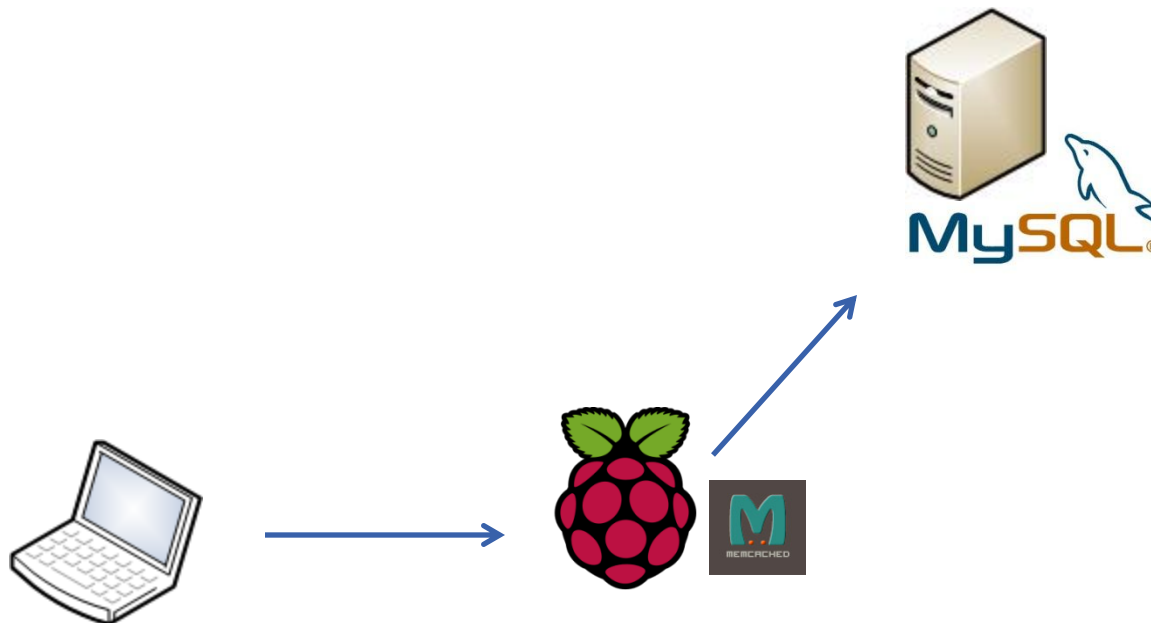
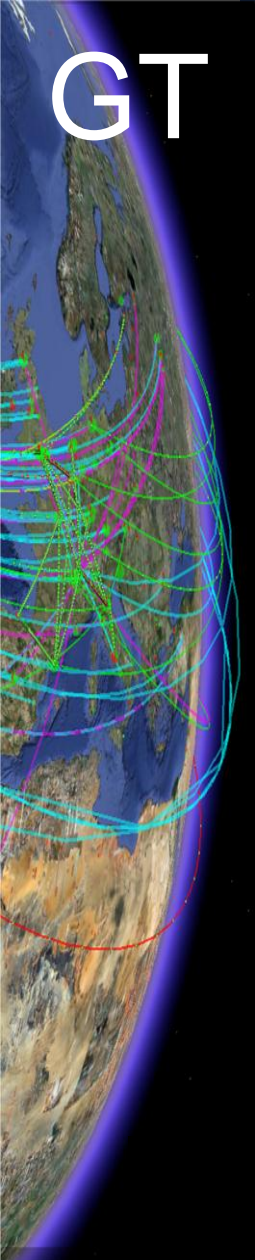


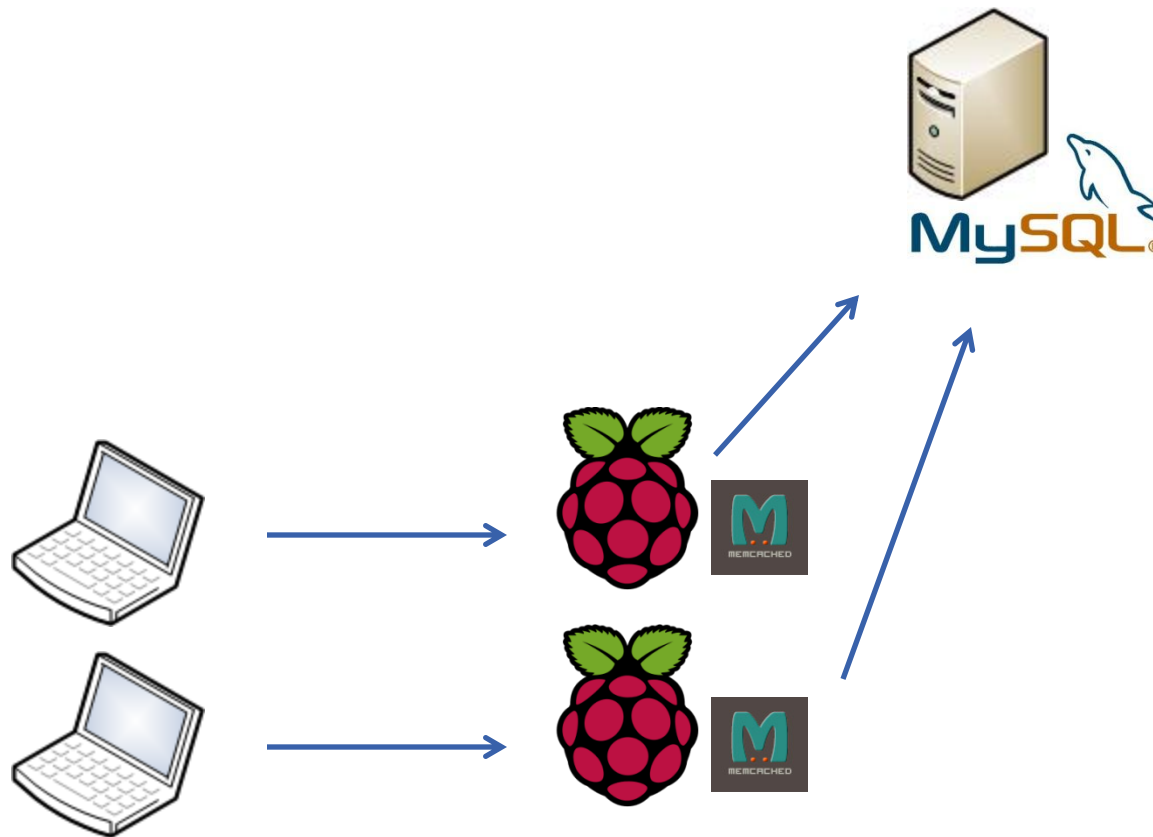
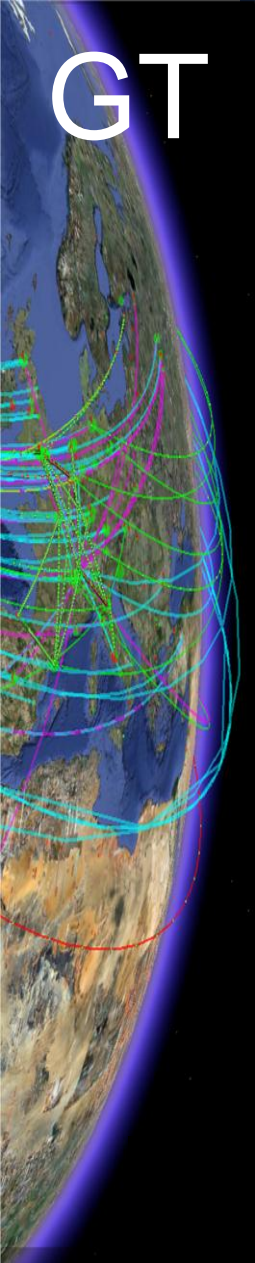
- Fedora 17 Raspberry Pi Remix
- DPM on EPEL/Fedora
→ clean builds
- Some rebuilds per koji necessary
- Not the newest development versions

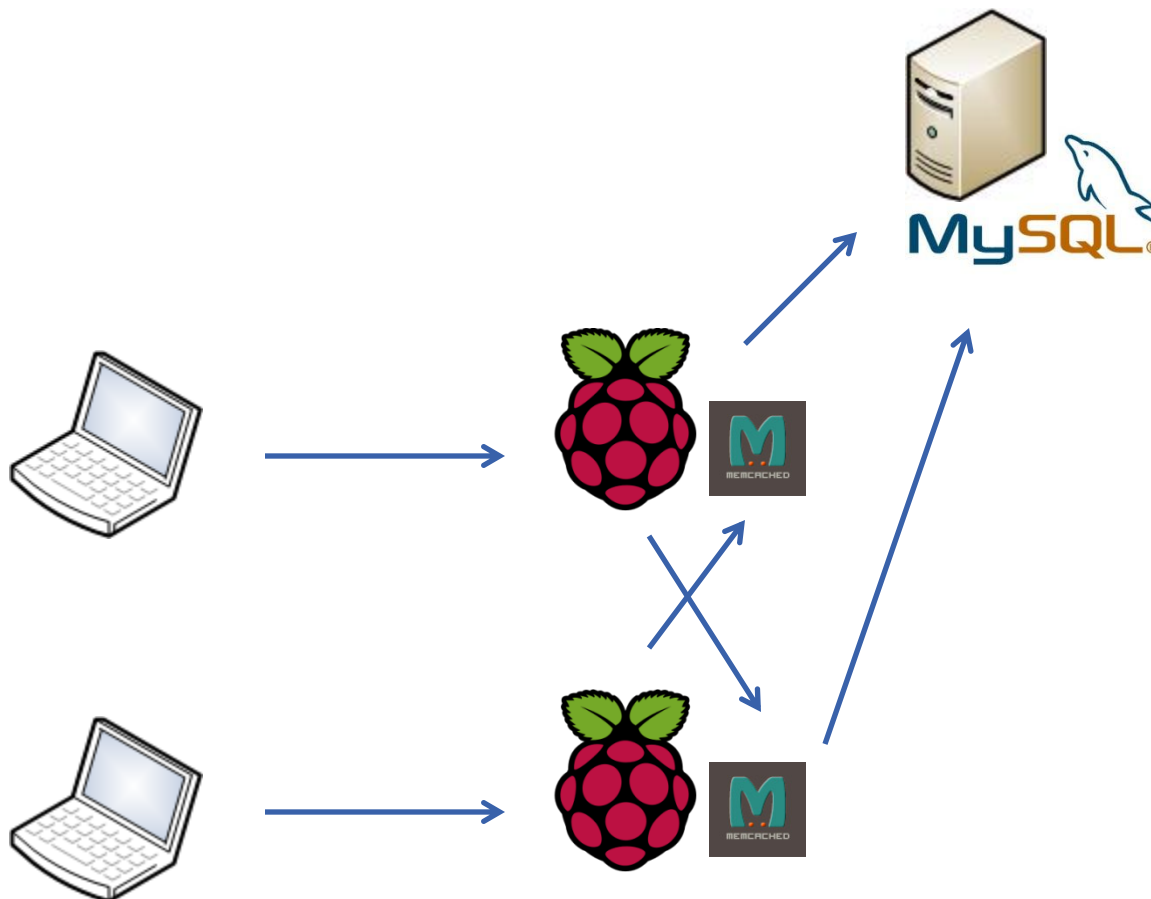
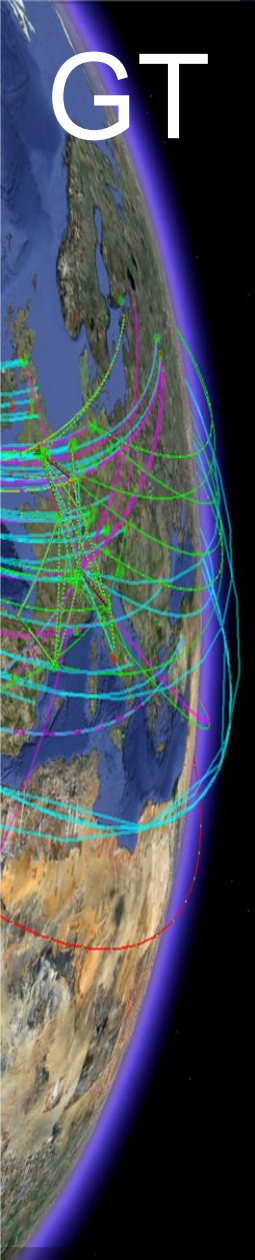


- Distributed memory cache
- Usage
 - Add several cache servers to a head node
 - Share cache between head nodes
 - Take load off DB

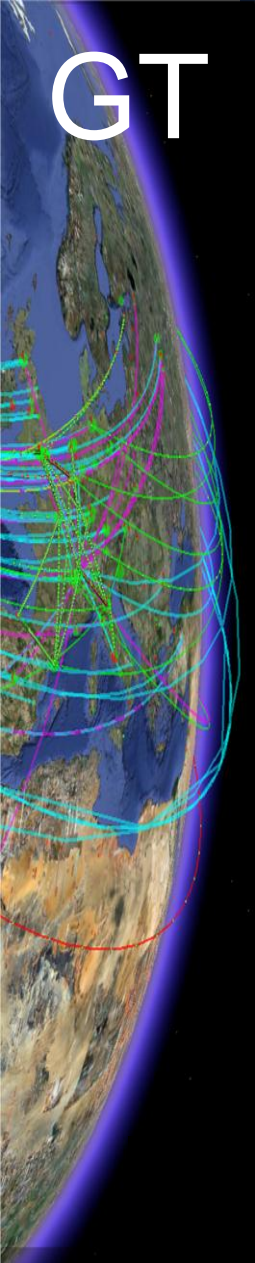


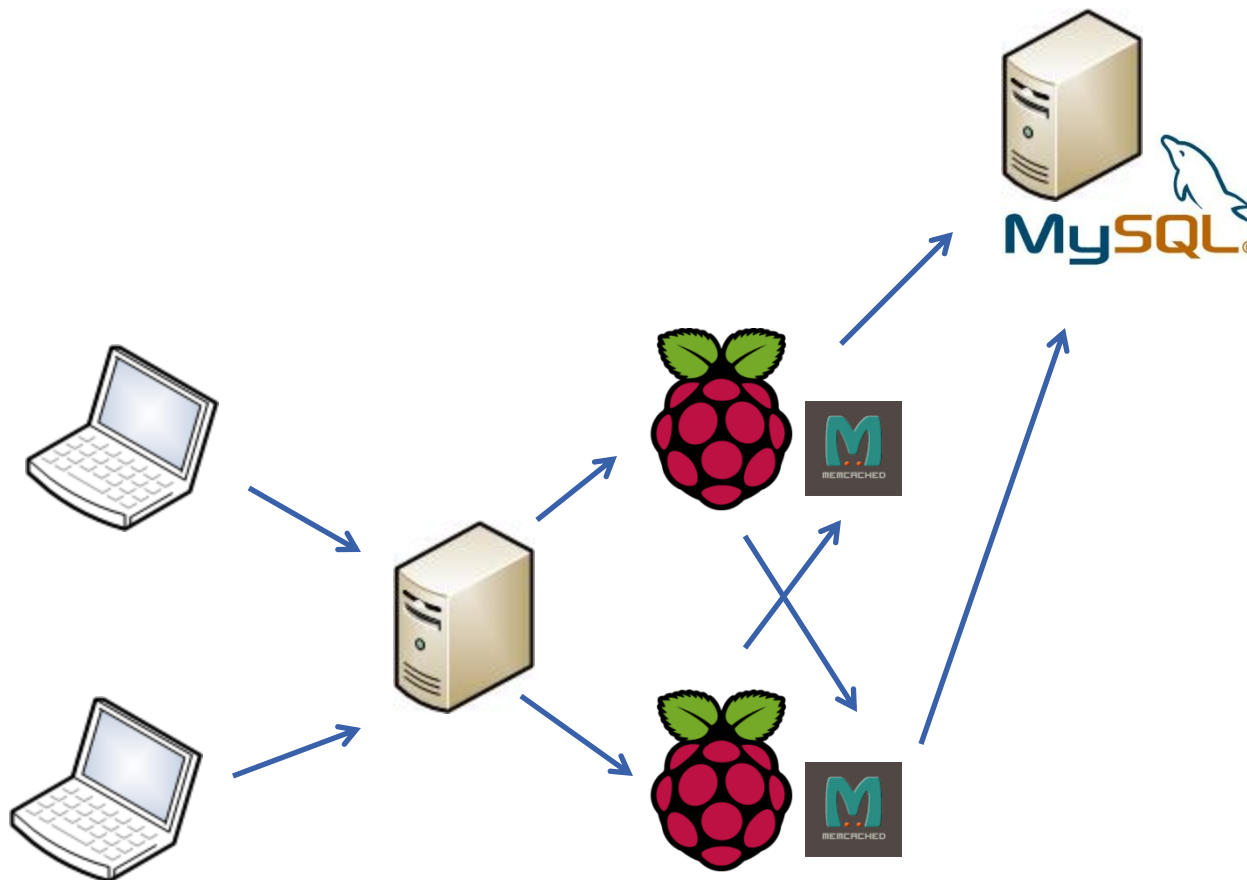
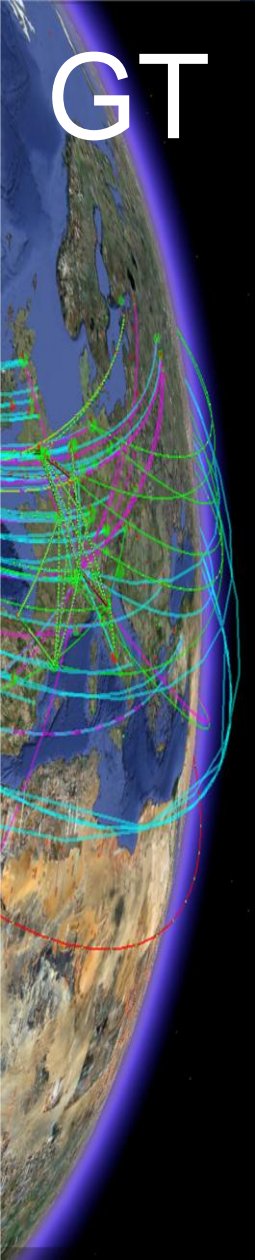






- Yum install pen
- Debug start:
`sudo pen -daf 80 headnode1.cern.ch \`
`headnode2.cern.ch`





- Fedora 17 Raspberry Pi Remix
http://zenit.senecac.on.ca/wiki/index.php/Raspberry_Pi_Fedora_Remix
- Dmlite memcache plugin
<https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm/Dev/Dmlite/Plugins/Memcache>
- Memcached wiki
<http://code.google.com/p/memcached/wiki/NewStart>
- Pen Load Balancer
<http://siag.nu/pen/>
<http://blog.miketosciano.com/?p=7>

