

Welcome to GPGPU Resource Centre survey

Who should take part? This survey is open to all grid and non-grid resource centre administrators. Only one reply per resource centre is expected.

The use of General Purpose Graphics Processing Units (GPGPUs) or co-processor accelerator devices, such as Intel's Xeon Phi co-processor, over the past few years has resulted in significant increases in the performance of certain applications. With three of the top 10 clusters in the current June 2012 Top500 supercomputers list using NVIDIA GPGPUs, we would expect the number of GPGPU or co-processor deployments at grid resource centres to grow significantly over the next few years.

The purpose of this Resource Centre survey is to gauge how the resource centre administrators (intend to) deploy and integrate GPGPUs or other accelerated devices into the Grid (or hybrid Grid/Cloud infrastructures), or whether they shall use grid/cloud resources at all for this purpose. In particular, we would like to determine if we can tightly integrate GPGPU capability within the grid/cloud environment in a consistent manner using established experience and best practice, or if there is a need from European research collaborations and their partners beyond Europe for a more tightly integrated GPGPU capability within the European Grid Infrastructure (www.egi.eu) or its Federated Cloud platform (go.egi.eu/cloud). In addition, we welcome further comments and feedback on other related topic not covered in the survey.

For further questions or comments, please contact the EGI GPGPU Virtual Team: vt-gpgpu@mailman.egi.eu

More about GPGPU VT at https://wiki.egi.eu/wiki/VT_GPGPU

Information collected through the survey will be aggregated with information from other sites, and will be used by the relevant EGI teams to define a technical roadmap. Information will be also aggregated at a national level and provided to NGI representatives to allow the definition of NGI-specific action plans.

The closing date for survey responses is Thursday September 13th 2012

During the survey, you always can go back to the previous questions and only on the last page after you click (done) your answers will be submitted.

Progress bar on the top shows the percentage of the questions being answered.

Questions marked with (*) are mandatory.

*** 1. Does your grid site currently provide GPGPU resources ?**

Yes

No

Please provide a comment.

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2. Do you plan to further extend the amount of GPGPU compute capacity offered in the coming 24 months ?

Yes

No

Please provide a comment.

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*3. Will your site provide GPGPU resources in the coming 24 months ?

Yes

No

Please provide a comment. Why Yes/No ?

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4. Which LRMS is/will be used to provide access to GPGPUs ?

- Condor
- LSF
- Slurm
- Torque
- Other

Other (please specify)

5. How the GPU resources are/will be seen from LRMS point of view ?

- manually configured consumable resource
- the GPU management is natively supported by the LRMS
- the LRMS is not aware of GPUs (e.g. user have to request whole node to get exclusive access to GPUs)
- other

Other (please specify)

*6. Does every node on your cluster has GPU ?

- No
- Yes

Please provide a comment. Why Yes/No ?

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7. Is access to GPGPU-enabled hosts restricted to specific users or groups ?

- No
 Yes

Please provide a comment. Why Yes/No ?

8. Which user communities/projects are making use of GPGPUs in your site ?

9. Please provide information about the GPGPU hardware deployed in your site (e.g. number of GPU nodes, type of GPU devices, number of cards per node)

10. Please provide information for the end-user or url to the documentation for accessing your GPGPU resources (e.g. how to submit a GPU job)

11. Did you implement some additional mechanism to manage access to GPU devices ? (e.g. custom prolog/epilog scripts, <http://sourceforge.net/projects/cudawrapper/> etc.)

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***12. Please provide your details. Your contact details will not be used for any other purposes and will not be forwarded to third parties.**

Name	<input type="text"/>
E-mail	<input type="text"/>
GOCDDB site name	<input type="text"/>
NGI the RC belongs to	<input type="text"/>

13. Please specify any additional information or feedback relevant to this survey that you wish to provide

Thank You very much for your time!