

Yale Qualtrics Survey Tool

Dear Principal Investigator,

As we prepare to refresh the Omega cluster later this year, we would like to gather information about your group's current and planned uses of the Omega cluster. This information will help us plan the features and capabilities of the new equipment so that it will best meet the needs of our computational research community. We are especially interested in learning about particular capabilities that may be required for your research, but that are not currently available on the Grace cluster. Throughout the survey, and in particular at the end of the survey, there will be an opportunity to make specific suggestions about the features in the refreshed Omega.

In order for us to stay on schedule for the refresh project, we would like to receive your response to this survey on or before Monday, June 6, 2016.

Best regards,

Andy Sherman

Senior Research Scientist in Computer Science
Yale Center for Research Computing

To start the survey, please select the arrow at the bottom of the page.

Please indicate the number of each category in your group that use the clusters

Ladder Faculty	<input type="text" value="0"/>
Research Faculty/Staff	<input type="text" value="0"/>
Postdoctoral Trainees	<input type="text" value="0"/>
Graduate Students	<input type="text" value="0"/>
Undergraduate Students	<input type="text" value="0"/>
External Research Collaborators	<input type="text" value="0"/>
Total	<input type="text" value="0"/>

Enter the three most frequently used applications by your group. If your group uses a single application under more than one use case, please enter that application once for each use case. (Please enter "None" if you do not have a second or third most used applications).

	Applications
Most Used Application	<input type="text" value="EXAMPLE_APPLIC"/>
Second most used Application	<input type="text" value="None"/>
Third most used Application	<input type="text" value="None"/>

If you wish, please enter additional applications your group uses, also in rank order.

The following questions refer to the most used application within your group: **EXAMPLE_APPLICATION**

Please provide a typical Use Case for EXAMPLE_APPLICATION. All following questions on the use of EXAMPLE_APPLICATION on this page refer to the specific use case entered below.

How is EXAMPLE_APPLICATION typically used?

- In Batch mode
- Interactively
- Both

How was the source for EXAMPLE_APPLICATION obtained?

- Commercial
- Open Source
- Yale Developed
- Other (Please specify)

How often do you or your group modify EXAMPLE_APPLICATION? Modifications can include source code modifications or extensive build configuration changes.

- Often
- Sometimes
- Never

How does EXAMPLE_APPLICATION make use of parallelism?

	Yes	Sometimes	No
Explicit multi-threading (e.g OpenMP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MPI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GPU	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If there is anything more you would like us to know about how your group makes use of parallelism for EXAMPLE_APPLICATION, please provide additional details below.

For EXAMPLE_APPLICATION, how does a typical job utilize resources?

Resource Use (numerical Value)

Nodes/Job

Cores/Node

Memory/Node
(GB/Node)

Walltime/Job (Core
hours/job)

Please answer questions about I/O specifically for EXAMPLE_APPLICATION

	Yes	Sometimes	No
Is File I/O Important?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Does file I/O consume much wallclock time?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please answer questions about files specifically for EXAMPLE_APPLICATION

	Numerical Value
How many files per job?	<input type="text"/>
Typical File Size (MB)	<input type="text"/>
Percentage of files retained on the cluster for less than 60 days	<input type="text"/>
For the files stored longer than 60 days, what percentage are reused for subsequent computation.	<input type="text"/>

For EXAMPLE_APPLICATION, does your group often submit large numbers of jobs at once?
If so, how many?

Considering your use of EXAMPLE_APPLICATION, please describe particular features of Omega that your group sees as especially important and/or that should be improved when the cluster is refreshed.

If your group has used both Grace and Omega, please describe any significant performance or other differences between the two clusters that your group has observed.

Considering your use of Omega now, please describe features of a refreshed Omega that are important to you, and may allow you to conduct research that you may be unable to accomplish on the current cluster.

If you would like to be contacted regarding your answers to the questions in this survey, please provide your email address below.

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We thank you for your time spent taking this survey.
Your response has been recorded.

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