

# 2010 Budget Map Survey

## InterSect360 Research User Site Budget Survey

Thank you for taking a few minutes to complete our survey. The objective of this survey is to better understand how High Performance Computing budgets are distributed between the various products types and expense items within your HPC environment. This data will be used to help create total market models and forecasts. InterSect360 Research will aggregate the data and will not identify individual sites with their responses.

For the purposes of this study we define HPC as:

*High Performance Computing (HPC) is the use of servers, clusters, and supercomputers – plus associated software, tools, components, storage, and services – for scientific, engineering, or analytical tasks that are particularly intensive in computation, memory usage, or data management. HPC is used by scientists and engineers both in research and in production across industry, government, and academia. Within industry, HPC can frequently be distinguished from general business computing in that companies generally will use HPC applications to gain advantage in their core endeavors – e.g., finding oil, designing automobile parts, or protecting clients' investments – as opposed to non-core endeavors such as payroll management or resource planning.*

In this study we will first ask for top-level budget distributions, and then ask for distributions within second-level categories. Finally we ask for some demographic information to complete the survey.

**Note:** If an item is not in your budget, but rather paid for by someone else, mark it as **NIB**. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.

Please provide information as percentages. Please respond at the level of accuracy you feel most comfortable with, and feel free to skip questions you consider sensitive information.

Please contact Christopher Willard at [chris.willard@intersect360.com](mailto:chris.willard@intersect360.com) if you have any questions or comments. Thank you again for your help.

## 2010 Budget Map Survey

\* 1. Does your organization run any type of HPC applications? (Note if you run HPC type application on on any size machine including entry level or midrange systems you ARE qualified for this study)

Yes

No

# 2010 Budget Map Survey

\* 2. Do you have knowledge of your HPC budget?

Yes

No

## 2010 Budget Map Survey

\* 3. Do you work for a computer hardware or software vendor in a marketing or business development role?

Yes

No

# 2010 Budget Map Survey

## Total budget distribution.

\* 4. What share of your total annual HPC budget would you assign to each of the following major categories?

(Please total to 100%.)

**Note:** If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.

**Hardware:** purchases and upgrades, including servers, storage, networks, clients, and other.

**Software:** purchases and upgrades, including O/S and systems software, middleware, applications, tools/libraries/compilers, in-house developed and other

**Facilities:** spending, including building/floor space, power consumption, cooling, and other.

**Staffing:** including system managers, maintenance personnel, systems programmers, applications programmers, user services consultants, and others.

**Services:** purchases, including maintenance and repair, external training, programming, and other.

**Cloud/Utility/Outsource:** purchases of computational capacity/capability through an external utility-based service, including raw cycles, applications support, and other.

**Other:** Anything not covered above, please specify below

5. If other, please specify:

<input type="text"/>	5
<input type="text"/>	6

# 2010 Budget Map Survey

## Hardware Budget Distribution

6. What share of your hardware budget would you assign to each of the following major categories?  
(Please total to 100%; skip if no expenditures in this category)

**Note: If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.**

**Server purchases and upgrades:** all sizes and types of multi-user or special-purpose systems that are purchased through your budget.

**Storage hardware purchases and upgrades,** including direct attached storage, NAS, SAN, etc., but not including storage software such as file systems.

**Network purchases and upgrades.**

**Client computer purchases and upgrades,** including: workstations, personnel computers, handheld devices, and other specialized equipment or interfaces.

**Other hardware,** please specify below

7. If other, please specify:

# 2010 Budget Map Survey

## Software Budget Distribution

8. What share of your software budget would you assign to each of the following major categories?  
(Please total to 100%; skip if no expenditures in this category)

**Note:** If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.

**System software** purchases, licenses, and upgrades, including operating systems, drivers, bundled hardware management tools, etc.

**Middleware** purchases, licenses, and upgrades, including workload managers, load balancing, grid management tools, system monitoring and accounting packages, etc.

**Storage management** software purchases, licenses, and upgrades, including file system licenses, volume managers, etc.

**Third-party (ISV) applications** software purchases, licenses, and upgrades.

**Transfer costs for software developed in house**, including software developed by dedicated staff, consultants, etc. **Note:** This item should cover any transfer costs that "pay" for the software internally. We will capture in-house software developer's salaries in Q5 (Staffing).

**Other software**, please specify below

9. If other, please specify:

<input type="text"/>	5
<input type="text"/>	6

# 2010 Budget Map Survey

## Facilities Budget Distribution

10. What share of your facilities budget would you assign to each of the following major categories?  
(Please total to 100%; skip if no expenditures in this category.)

**Note: If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.**

**Building/floor space**, including purchase, rental, overhead charges, and regular maintenance of the compute facility's building or floor space.

**Power consumption** for the computer systems and associated equipment, including storage systems, networks, etc.

**Cooling** for computer rooms and equipment.

**Other facilities costs**, please specify below:

11. If other, please specify:

	5
	6



# 2010 Budget Map Survey

## Staffing Budget Distribution

12. What share of your staffing budget would you assign to each of the following major categories?  
(Please total to 100%; skip if no expenditures in this category.)

**Note:** If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.

**Systems management and operations.** Staff responsible for day-to-day operations, troubleshooting, system balancing and optimization, etc.

**Maintenance personnel,** including maintenance of computer servers and clients and associated storage and networking equipment. **Note:** If maintenance is purchased through a services contract with an outside organization, please include that expense under services.

**System programmers,** including those primarily responsible for developing and maintaining software to enhance the OS and/or middleware capabilities.

**Applications programmers,** including those primarily responsible for developing and maintaining to support end user efforts and applications.

**User support and services personnel** primarily responsible for such activities as: helpline, internal training, documentation, applications porting, optimization and debugging support, etc.

**Other staffing,** please specify below

13. If other, please specify:

	5
	6

# 2010 Budget Map Survey

## Services Budget Distribution

14. What share of your services budget would you assign to each of the following major categories?  
(Please total to 100%; skip if no expenditures in this category.)

**Note: If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.**

**Maintenance and repair**, including equipment repair and preventative maintenance contract services.

**Systems engineering** support for development of site requirements and specifications, RFPs, proposal evaluations, systems acceptance testing and evaluation, site planning, etc.

**Systems integration** support for physically integrating clusters, networks, storage systems, grids, etc., as specified by the site.

**Training**, training classes, seminars, etc. provided by external organizations.

**Programming:** Programming services provided by external organizations.

**Other service costs**, please specify below:

15. If other, please specify:

# 2010 Budget Map Survey

## Cloud/Utility/Outsource Budget Distribution

16. What share of your cloud/utility/outsourcing budget would you assign to each of the following major categories? (Please total to 100%; skip if no expenditures in this category.)

**Note:** If an item is not in your budget, but rather paid for by someone else, mark it as NIB. If an item is theoretically in your budget but you are not currently paying anything, mark it as 0%.

**Raw cycles:** Purchase of computing cycles for which your organization supplies the applications software.

**Applications support:** The utility service provides both the applications software environment and computing time.

**Other:** Utility/outsourcing costs, please specify below:

17. If other, please specify:

	5
	6

# 2010 Budget Map Survey

## Budget Dynamics

**18. Going forward (over the next 2 years), what change do you anticipate for your HPC budget:**

- Significant growth (up by more than 25%)
- Growth (up by 5% to 25%)
- Relatively flat (within +/- 5%)
- Decline (down by 5% to 25%)
- Significant decline (down by more than 25%)

**19. Please list any areas in which you expect significant changes to your budget (increase or decrease) over the next two years?**

	5
	6

# 2010 Budget Map Survey

## Sector Demographics

\* 20. Which of the following sectors best describes your organization?

Commercial/Industrial

Academic

Government

Other

# 2010 Budget Map Survey

## Demographics -- Commercial/Industrial

**21. Which of the following best describes your Commercial/Industrial organization?**

- Biotechnology, biochemistry, pharmaceutical
- Automotive or aerospace manufacturing
- Semiconductor design or manufacturing
- Consumer products manufacturing
- Chemical manufacturing and engineering (e.g., polymers, plastics)
- Medical device manufacturing
- Oil/gas exploration
- Utilities (e.g., power generation distribution, telecommunications, pipeline management)
- Financial services or insurance
- Other commercial/industrial site, please specify below:

**22. If other, please specify:**

# 2010 Budget Map Survey

## Demographics -- Academic

**23. Which of the following best describes your ACADEMIC organization?**

- Public college/university
- Private college/university
- Multi-university consortium
- Not-for-profit research institution
- Other academic/research site, please specify below:

**24. If other, please specify:**

# 2010 Budget Map Survey

## Demographics -- Government

**25. Which of the following best describes your organization?**

- National research lab
- National military, defense, or homeland security organization
- National agency
- State or local government
- Other government site, please specify below:

**26. If other, please specify:**



# 2010 Budget Map Survey

## Demographics -- Other

27. For other type of organization, please specify:

# 2010 Budget Map Survey

## Annual HPC Budget

**28. What is your organization's annual budget for HPC, including servers, software, storage, and services?**

Less than \$50,000

\$50,000 to \$99,999

\$100,000 to \$499,999

\$500,000 to \$999,999

\$1,000,000 to \$1,999,999

\$2,000,000 or higher

Don't know

# 2010 Budget Map Survey

## Amazon Gift Card

**29. Thank you for completing our survey. Please indicate if you would like to receive a \$25 Amazon gift card.**

Yes --Please provide your name, company name, and email address in the following question.

No thank you.

## 2010 Budget Map Survey

Thank you for your time. Unfortunately, you do not meet our criteria to take the survey at this time.

Please exit by clicking the "Exit this survey" in the upper right hand corner or closing your browser.

Have a great day.

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Have a great day.

# 2010 Budget Map Survey

## Thank you

30. Thank you for your participation. Please provide at least your contact information so we can follow-up with you directly, if necessary. (NOTE: Name, company name, and email are required to receive your Amazon gift card)

Name:

Company:

Address 1:

Address 2:

City/Town:

State/Province:

ZIP/Postal Code:

Country:

Email Address:

Phone Number: