

# 2011 IS360 Site Census

## Welcome

Intersect360 Research User Site System Census Survey

Thank you for taking a few minutes to complete our survey. Your responses will help technology and services suppliers better understand the server, storage, network, and software technology currently in use at High Performance Computing sites. 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 development, and to a growing extent business applications in such areas as business intelligence, complex event processing, virtual environments (e.g. online games), and ultra-scale computational facilities. HPC applications are found 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 ask you to list the systems and software you currently have installed and provide some top level configuration/usage information for those systems and packages. Finally, we ask for some demographic information to complete the survey.

Please contact Laura Segervall at [Laura@Intersect360.com](mailto:Laura@Intersect360.com) if you have any questions or comments. Thank you again for your help.

Click the NEXT button below to begin.

## Qualifier #1

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

Yes

No

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## Qualifer #2

\* Do you have knowledge of the HPC hardware and software installed at your site?

Yes

No

## Qualifer #3

\* Do you work for a computer hardware or software vendor that sells to HPC users?

Yes

No

## Introduction

Please provide a response to each question.

\* **What is the name of your company/institution/organization?**

\* **What is your job title?**

\* **Which of the following tasks do you perform or have management responsibilities for in your organization? (check all that apply)**

- Overall management
- Systems administration
- Facilities operations/management
- Systems engineering/planning
- Systems specifications/purchasing
- Software specifications/purchasing
- Applications software development/optimization/maintenance
- Systems software/middleware development/turning/enhancing/maintenance
- Workflow software development/maintenance
- User services/training/consulting
- Other

# 2011 IS360 Site Census

## Geographical Location

**\* What country does your organization reside?  
(not headquarters, your facility)**

- |   |                                      |   |
|---|--------------------------------------|---|
| <input type="checkbox"/> Australia      | <input type="checkbox"/> Hungary     | <input type="checkbox"/> Peru           |
| <input type="checkbox"/> Bangladesh     | <input type="checkbox"/> Iceland     | <input type="checkbox"/> Poland         |
| <input type="checkbox"/> Belgium        | <input type="checkbox"/> India       | <input type="checkbox"/> Russia         |
| <input type="checkbox"/> Brazil         | <input type="checkbox"/> Ireland     | <input type="checkbox"/> Singapore      |
| <input type="checkbox"/> Bulgaria       | <input type="checkbox"/> Israel      | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Canada         | <input type="checkbox"/> Italy       | <input type="checkbox"/> South Africa   |
| <input type="checkbox"/> China          | <input type="checkbox"/> Japan       | <input type="checkbox"/> South Korea    |
| <input type="checkbox"/> Colombia       | <input type="checkbox"/> Jordan      | <input type="checkbox"/> Spain          |
| <input type="checkbox"/> Costa Rica     | <input type="checkbox"/> Lithuania   | <input type="checkbox"/> Sweden         |
| <input type="checkbox"/> Croatia        | <input type="checkbox"/> Malaysia    | <input type="checkbox"/> Switzerland    |
| <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Mexico      | <input type="checkbox"/> Turkey         |
| <input type="checkbox"/> Denmark        | <input type="checkbox"/> Netherlands | <input type="checkbox"/> United Kingdom |
| <input type="checkbox"/> Estonia        | <input type="checkbox"/> New Zealand | <input type="checkbox"/> Ukraine        |
| <input type="checkbox"/> France         | <input type="checkbox"/> Norway      | <input type="checkbox"/> USA            |
| <input type="checkbox"/> Germany        | <input type="checkbox"/> Pakistan    |   |

If your country is not listed, please provide

# 2011 IS360 Site Census

## Server #1

Please provide as much of the following information as possible for each of your installed server systems (you will be able to include up to 5 systems - one per page):

### SYSTEM 1: Vendor and model:

**Vendor = "in-house" for systems configured by internal staff, integrators, or contractors.**

**Vendor = "generic" for systems using commercial off-the-shelf technology with multiple or unknown vendors.**

**Vendor = cloud service provider for cloud usage and Model = "Cloud". Provide additional info (nodes, memory, storage) if appropriate.**

Vendor:

Model:

### Year acquired:

### How acquired (direct sales rep, reseller, web):

direct sales rep

reseller

web

don't know

Other (please specify)

### Last year upgraded:

# 2011 IS360 Site Census

## Architecture (SMP, MPP, cluster, blade, etc.):

SMP

MPP

Cluster

Blade based

Vector

Uniprocessor

Cloud

Other (please specify)

**On average, how many additional nodes (servers) do you add to your cluster/blade/mpp each year?**

**On average, how many nodes (servers) do you replace in your cluster/blade/mpp each year?**

# 2011 IS360 Site Census

## What is the primary Operating system:

- SUSE/OpenSUSE
- Red Hat
- CENT OS
- Other commercial Linux
- Non-commercial Linux
- Windows Server 2000
- Windows Server 2003
- Windows Compute Cluster Server 2003
- Windows HPC Server 2008
- Windows Client (XP, Vista, Windows 7, or older)
- Mac OS X
- AIX
- Solaris
- Irix
- Other (please specify)

## Number of nodes:

(For SMP or Uni-processor systems set the number of nodes to 1.)

## For normal use, is this system typically partitioned into smaller logical systems?

- Yes
- No

## If yes, what is the typical number of partitions or logical systems it is divided into?

## Processor type (AMD x86-64, Intel x86-64, Power, Sparc, etc.):

## Number of processors per node:

(NOTE: For next 4 questions, for clustered systems with multiple node types configured, use the predominant node for your responses.)

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**Number of cores per processor:**

**Amount of memory per node in**

**GB:**

**Amount of local disk per node:**

Amount

Units

**Amount of direct attached storage for this system:**

Amount

Units

**Amount of storage allocated to  
this system on network shared  
storage system:**

Amount

Units

**For cluster, blade and MPP configurations, please list:**

Interconnect Supplier   
(Primary):

Interconnect Supplier   
(Secondary):

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list primary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

**For cluster, blade, and MPP configurations, please list secondary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Not Applicable

Other (please specify)

**Accelerator Technology - please answer the following if this system uses accelerator technology:**

Supplier name:

Accelerator name/type:

Number in system:

**Accelerator configuration approach (select one):**

On-node accelerator - accelerators are configured as part of a node

Independent - accelerators are configured as independent nodes

## For Accelerators -- what programming models are you using?

- OpenCL
- CUDA
- DirectX
- My Numerical library handles this for me
- My Compiler does this for me
- I don't know
- Other (please specify)

  

## \* Do you have another installed server system to report on?

Yes

No

# 2011 IS360 Site Census

## Server #2

Please provide as much of the following information as possible for each of your installed server systems (you will be able to include up to 5 systems - one per page):

### SYSTEM 2: Vendor and model:

Vendor = "in-house" for systems configured by internal staff, integrators, or contractors.

Vendor = "generic" for systems using commercial off-the-shelf technology with multiple or unknown vendors.

Vendor = cloud service provider for cloud usage and Model = "Cloud". Provide additional info (nodes, memory, storage) if appropriate.

Vendor:

Model:

### Year acquired:

### How acquired (direct sales rep, reseller, web):

direct sales rep

reseller

web

don't know

Other (please specify)

### Last year upgraded:

# 2011 IS360 Site Census

## Architecture (SMP, MPP, cluster, blade, etc.):

SMP

MPP

Cluster

Blade based

Vector

Uniprocessor

Cloud

Other (please specify)

**On average, how many additional nodes (servers) do you add to your cluster/blade/mpp each year?**

**On average, how many nodes (servers) do you replace in your cluster/blade/mpp each year?**

# 2011 IS360 Site Census

## What is the primary Operating system:

- SUSE/OpenSUSE
- Red Hat
- CENT OS
- Other commercial Linux
- Non-commercial Linux
- Windows Server 2000
- Windows Server 2003
- Windows Compute Cluster Server 2003
- Windows HPC Server 2008
- Windows Client (XP, Vista, Windows 7, or older)
- Mac OS X
- AIX
- Solaris
- Irix
- Other (please specify)

## Number of nodes:

(For SMP or Uni-processor systems set the number of nodes to 1.)

## For normal use, is this system typically partitioned into smaller logical systems?

- Yes
- No

## If yes, what is the typical number of partitions or logical systems it is divided into?

## Processor type (AMD x86-64, Intel x86-64, Power, Sparc, etc.):

## Number of processors per node:

(NOTE: For next 4 questions, for clustered systems with multiple node types configured, use the predominant node for your responses.)

# 2011 IS360 Site Census

**Number of cores per processor:**

**Amount of memory per node in GB:**

**Amount of local disk per node:**

Amount

Units

**Amount of direct attached storage for this system:**

Amount

Units

**Amount of storage allocated to this system on network shared storage system:**

Amount

Units

**For cluster, blade, and MPP configurations, please list:**

Interconnect Supplier   
(Primary):

Interconnect Supplier   
(Secondary):

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list primary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list secondary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Not Applicable

Other (please specify)

**Accelerator Technology - please answer the following if this system uses accelerator technology:**

Supplier name:

Accelerator name/type:

Number in system:

**Accelerator configuration approach (select one):**

On-node accelerator - accelerators are configured as part of a node

Independent - accelerators are configured as independent nodes

## For Accelerators -- what programming models are you using?

- OpenCL
- CUDA
- DirectX
- My Numerical library handles this for me
- My Compiler does this for me
- I don't know
- Other (please specify)

  

## \* Do you have another installed server system to report on?

Yes

No

# 2011 IS360 Site Census

## Server #3

Please provide as much of the following information as possible for each of your installed server systems (you will be able to include up to 5 systems - one per page):

### SYSTEM 3: Vendor and model:

**Vendor = "in-house" for systems configured by internal staff, integrators, or contractors.**

**Vendor = "generic" for systems using commercial off-the-shelf technology with multiple or unknown vendors.**

**Vendor = cloud service provider for cloud usage and Model = "Cloud". Provide additional info (nodes, memory, storage) if appropriate.**

Vendor:

Model:

### Year acquired:

### How acquired (direct sales rep, reseller, web):

direct sales rep

reseller

web

don't know

Other (please specify)

### Last year upgraded:

# 2011 IS360 Site Census

## Architecture (SMP, MPP, cluster, blade, etc.):

SMP

MPP

Cluster

Blade based

Vector

Uniprocessor

Cloud

Other (please specify)

**On average, how many additional nodes (servers) do you add to your cluster/blade/mpp each year?**

**On average, how many nodes (servers) do you replace in your cluster/blade/mpp each year?**

# 2011 IS360 Site Census

## What is the primary Operating system:

- SUSE/OpenSUSE
- Red Hat
- CENT OS
- Other commercial Linux
- Non-commercial Linux
- Windows Server 2000
- Windows Server 2003
- Windows Compute Cluster Server 2003
- Windows HPC Server 2008
- Windows Client (XP, Vista, Windows 7, or older)
- Mac OS X
- AIX
- Solaris
- Irix
- Other (please specify)

## Number of nodes:

(For SMP or Uni-processor systems set the number of nodes to 1.)

## For normal use, is this system typically partitioned into smaller logical systems?

- Yes
- No

## If yes, what is the typical number of partitions or logical systems it is divided into?

## Processor type (AMD x86-64, Intel x86-64, Power, Sparc, etc.):

## Number of processors per node:

(NOTE: For next 4 questions, for clustered systems with multiple node types configured, use the predominant node for your responses.)

# 2011 IS360 Site Census

**Number of cores per processor:**

**Amount of memory per node in GB:**

**Amount of local disk per node:**

Amount

Units

**Amount of Server level direct attached storage:**

Amount

Units

**Amount of storage allocated to this system on network shared storage system:**

Amount

Units

**For cluster, blade, and MPP configurations, please list:**

Interconnect Supplier (Primary):

Interconnect Supplier (Secondary):

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list primary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list secondary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Not Applicable

Other (please specify)

**Accelerator Technology - please answer the following if this system uses accelerator technology:**

Supplier name:

Accelerator name/type:

Number in system:

**Accelerator configuration approach (select one):**

On-node accelerator - accelerators are configured as part of a node

Independent - accelerators are configured as independent nodes

## For Accelerators -- what programming models are you using?

- OpenCL
- CUDA
- DirectX
- My Numerical library handles this for me
- My Compiler does this for me
- I don't know
- Other (please specify)

  

## \* Do you have another installed server system to report on?

- Yes
- No

# 2011 IS360 Site Census

## Server #4

Please provide as much of the following information as possible for each of your installed server systems (you will be able to include up to 5 systems - one per page):

### SYSTEM 4: Vendor and model:

**Vendor = "in-house" for systems configured by internal staff, integrators, or contractors.**

**Vendor = "generic" for systems using commercial off-the-shelf technology with multiple or unknown vendors.**

**Vendor = cloud service provider for cloud usage and Model = "Cloud". Provide additional info (nodes, memory, storage) if appropriate.**

Vendor:

Model:

### Year acquired:

### How acquired (direct sales rep, reseller, web):

direct sales rep

reseller

web

don't know

Other (please specify)

### Last year upgraded:

# 2011 IS360 Site Census

## Architecture (SMP, MPP, cluster, blade, etc.):

SMP

MPP

Cluster

Blade based

Vector

Uniprocessor

Cloud

Other (please specify)

**On average, how many additional nodes (servers) do you add to your cluster/blade/mpp each year?**

**On average, how many nodes (servers) do you replace in your cluster/blade/mpp each year?**

# 2011 IS360 Site Census

## What is the primary Operating system:

- SUSE/OpenSUSE
- Red Hat
- CENT OS
- Other commercial Linux
- Non-commercial Linux
- Windows Server 2000
- Windows Server 2003
- Windows Compute Cluster Server 2003
- Windows HPC Server 2008
- Windows Client (XP, Vista, Windows 7, or older)
- Mac OS X
- AIX
- Solaris
- Irix
- Other (please specify)

## Number of nodes:

(For SMP or Uni-processor systems set the number of nodes to 1.)

## For normal use, is this system typically partitioned into smaller logical systems?

- Yes
- No

## If yes, what is the typical number of partitions or logical systems it is divided into?

## Processor type (AMD x86-64, Intel x86-64, Power, Sparc, etc.):

## Number of processors per node:

(NOTE: For next 4 questions, for clustered systems with multiple node types configured, use the predominant node for your responses.)

# 2011 IS360 Site Census

**Number of cores per processor:**

**Amount of memory per node (GB):**

**Amount of local disk per node:**

Amount

Units

**Amount of direct attached storage for this system:**

Amount

Units

**Amount of storage allocated to this system on network shared storage system (GB)**

**For cluster, blade, and MPP configurations, please list:**

Interconnect Supplier (Primary):

Interconnect Supplier (Secondary):

**For cluster, blade, and MPP configurations, please list primary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list secondary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Not Applicable

Other (please specify)

**Accelerator Technology - please answer the following if this system uses accelerator technology:**

Supplier name:

Accelerator name/type:

Number in system:

**Accelerator configuration approach (select one):**

On-node accelerator - accelerators are configured as part of a node

Independent - accelerators are configured as independent nodes

## For Accelerators -- what programming models are you using?

- OpenCL
- CUDA
- DirectX
- My Numerical library handles this for me
- My Compiler does this for me
- I don't know
- Other (please specify)

  

## \* Do you have another installed server system to report on?

Yes

No

# 2011 IS360 Site Census

## Server #5

Please provide as much of the following information as possible for each of your installed server systems (you will be able to include up to 5 systems - one per page):

### SYSTEM 5: Vendor and model:

**Vendor = "in-house" for systems configured by internal staff, integrators, or contractors.**

**Vendor = "generic" for systems using commercial off-the-shelf technology with multiple or unknown vendors.**

**Vendor = cloud service provider for cloud usage and Model = "Cloud". Provide additional info (nodes, memory, storage) if appropriate.**

Vendor:

Model:

### Year acquired:

### How acquired (direct sales rep, reseller, web):

direct sales rep

reseller

web

don't know

Other (please specify)

### Last year upgraded:

# 2011 IS360 Site Census

## Architecture (SMP, MPP, cluster, blade, etc.):

SMP

MPP

Cluster

Blade based

Vector

Uniprocessor

Cloud

Other (please specify)

**On average, how many additional nodes (servers) do you add to your cluster/blade/mpp each year?**

**On average, how many nodes (servers) do you replace in your cluster/blade/mpp each year?**

# 2011 IS360 Site Census

## What is the primary Operating system:

- SUSE/OpenSUSE
- Red Hat
- CENT OS
- Other commercial Linux
- Non-commercial Linux
- Windows Server 2000
- Windows Server 2003
- Windows Compute Cluster Server 2003
- Windows HPC Server 2008
- Windows Client (XP, Vista, Windows 7, or older)
- Mac OS X
- AIX
- Solaris
- Irix
- Other (please specify)

## Number of nodes:

(For SMP or Uni-processor systems set the number of nodes to 1.)

## For normal use, is this system typically partitioned into smaller logical systems?

- Yes
- No

## If yes, what is the typical number of partitions or logical systems it is divided into?

## Processor type (AMD x86-64, Intel x86-64, Power, Sparc, etc.):

## Number of processors per node:

(NOTE: For next 4 questions, for clustered systems with multiple node types configured, use the predominant node for your responses.)

# 2011 IS360 Site Census

**Number of cores per processor:**

**Amount of memory per node (GB):**

**Amount of local disk per node:**

Amount

Units

**Amount of direct attached storage for this system:**

Amount

Units

**Amount of storage allocated to this system on  
network shared storage system:**

Amount

Units

**For cluster, blade, and MPP configurations, please list:**

Interconnect Supplier (Primary):

Interconnect Supplier (Secondary):

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list primary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

# 2011 IS360 Site Census

**For cluster, blade, and MPP configurations, please list secondary Interconnect type:**

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Not Applicable

Other (please specify)

**Accelerator Technology - please answer the following if this system uses accelerator technology:**

Supplier name:

Accelerator name/type:

Number in system:

**Accelerator configuration approach (select one):**

On-node accelerator - accelerators are configured as part of a node

Independent - accelerators are configured as independent nodes

## For Accelerators -- what programming models are you using?

- OpenCL
- CUDA
- DirectX
- My Numerical library handles this for me
- My Compiler does this for me
- I don't know
- Other (please specify)

## Installed Storage System #1

Please provide as much of the following information as possible for each of your installed storage systems (you will be able to include up to 3 storage systems - one per page):

### STORAGE SYSTEM #1: Vendor and model

**Vendor = cloud service provider for cloud storage usage and Model = "cloud"**

Vendor:

Model:

### Type

NAS

SAN

Hierarchical

Tape library

Don't know

Other (please specify)

### Year acquired:

### Maximum amount of data that can be held on the system:

Amount

Units

### Primary network supplier to/from the storage systems:

# 2011 IS360 Site Census

## Primary network type to/from the storage systems:

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

## Storage management software:

## What percentage of data is stored in

% Structured (i.e. database) form   
(ex: SQL, Oracle, other database)

% Semi-structured file system   
form (ex: NetCDF, HDFS, HDF5,  
Hbase)

% Unstructured file system form   
(ex: flat files)

## What type of structured storage does this system have (if any)?

Database (SQL, MySQL, Oracle, DB2)

Database with cache (e.g. Coherence In-Memory Data GRID , Gigaspaces, Gemstone)

Parallel Database

Do not use

Other (please specify)

## 2011 IS360 Site Census

\* Do you have another installed storage system to report on?

Yes

No

## Installed Storage System #2

Please provide as much of the following information as possible for each of your installed storage systems (you will be able to include up to 3 storage systems - one per page):

### STORAGE SYSTEM #2: Vendor and model:

**Vendor = cloud service provider for cloud storage usage and Model = "cloud"**

Vendor:

Model:

### Type

NAS

SAN

Hierarchical

Tape library

Don't know

Other (please specify)

### Year acquired:

### Maximum amount of data that can be held on the system:

Amount

Units

### Primary network supplier to/from the storage systems:

# 2011 IS360 Site Census

## Primary network type to/from the storage systems:

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

## Storage management software:

## What percentage of data is stored in

% Structured (i.e. database) form   
(ex: SQL, Oracle, other database)

% Semi-structured file system   
form (ex: NetCDF, HDFS, HDF5, Hbase)

% Unstructured file system form   
(ex: flat files)

## What type of structured storage does this system have (if any)?

Database (SQL, MySQL, Oracle, DB2)

Database with cache (e.g. Coherence In-Memory Data GRID , Gigaspaces, Gemstone)

Parallel Database

Do not use

Other (please specify)

## 2011 IS360 Site Census

\* Do you have another installed storage system to report on?

Yes

No

## Installed Storage System #3

Please provide as much of the following information as possible for each of your installed storage systems (you will be able to include up to 3 storage systems - one per page):

### STORAGE SYSTEM #3: Vendor and model

**Vendor = cloud service provider for cloud storage usage and Model = "cloud"**

Vendor:

Model:

### Type

NAS

SAN

Hierarchical

Tape library

Don't know

Other (please specify)

### Year acquired:

### Maximum amount of data that can be held on the system:

Amount

Units

### Primary network supplier to/from the storage systems:

# 2011 IS360 Site Census

## Primary network type to/from the storage systems:

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

## Storage management software:

## What percentage of data is stored in

% Structured (i.e. database) form   
(ex: SQL, Oracle, other database)

% Semi-structured file system   
form (ex: NetCDF, HDFS, HDF5,  
Hbase)

% Unstructured file system form   
(ex: flat files)

## What type of structured storage does this system have (if any)?

Database (SQL, MySQL, Oracle, DB2)

Database with cache (e.g. Coherence In-Memory Data GRID , Gigaspaces, Gemstone)

Parallel Database

Do not use

Other (please specify)

## Additional Storage Questions

**Is your organization deploying, considering, or not planning using SSDs for primary storage within the next two years?**

Currently Using

Evaluating

Not using

Comments

**What is the amount of data added to your site's primary storage system per month?**

<1 TB

> 1TB < 10TB

>10TB <100TB

>100TB < 1PB

1 PB+

Don't know

**What is the amount of data removed or archived from your site's primary storage per month?**

< 1 TB

> 1TB < 10TB

>10TB <100TB

>100TB < 1PB

1 PB+

Don't know

## Local Area and Computer Networks

Please list as much of the following information as possible for each local area and/or computer room network you currently have installed (you will be able to enter up to 3 networks - one per page):

### LOCAL NETWORK #1: Type

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

### Primary router supplier for Network #1

### Primary NIC supplier

### Aggregate bandwidth (Gbps):

### Major purpose (e.g. computer room, campus servers, end-user access, other):

### \* Do you have another installed network to report on?

Yes

No

## Local Area and Computer Networks #2

Please list as much of the following information as possible for each local area and/or computer room network you currently have installed (you will be able to enter up to 3 networks - one per page):

### LOCAL NETWORK #2: Type

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

### Primary router supplier for Network #2

### Primary NIC supplier

### Aggregate bandwidth (Gbps):

### Major purpose (e.g. computer room, campus servers, end-user access, other):

### \* Do you have another installed network to report on?

Yes

No

## Local Area and Computer Networks #3

Please list as much of the following information as possible for each local area and/or computer room network you currently have installed (you will be able to enter up to 3 networks - one per page):

### LOCAL NETWORK #3: Type

10 Mbps or less Ethernet

100 Mbps Ethernet

1 Gbps Ethernet

10 Gbps Ethernet

Ethernet, unknown speed

10 Gbps Infiniband

20 Gbps Infiniband

40 Gbps Infiniband

Infiniband, unknown speed

Fibre Channel

Don't know

Other (please specify)

### Primary router supplier for Network #3

### Primary NIC supplier

### Aggregate bandwidth (Gbps):

### Major purpose (e.g. computer room, campus servers, end-user access, other):

# 2011 IS360 Site Census

## Middleware and Utilities

Please list the primary middleware and utilities packages in use at your facility. Packages in this category are system-level software not included as part of the operating system, ranging from load balancing and batch queue management utilities, to compilers, debuggers, and parallel programming environments. For packages developed in-house, enter supplier as "In-house". For packages obtained from open source organizations, enter the organization or "Open source" for the supplier.

### Middleware and Utilities Package # 1

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Middleware and Utilities Package # 2

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Middleware and Utilities Package # 3

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Middleware and Utilities Package # 4

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Middleware and Utilities Package # 5

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

# 2011 IS360 Site Census

## Applications Software Package

Please list the primary applications software packages in use at your facility. For packages developed in-house, enter supplier as "In-house". For packages obtained from open source organizations, enter the organization or "Open source" for the supplier.

### Applications Software Package # 1

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Applications Software Package # 2

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Applications Software Package # 3

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Applications Software Package # 4

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

### Applications Software Package # 5

Supplier	<input type="text"/>
Package Name	<input type="text"/>
Type/Primary Use	<input type="text"/>

## Visualization

**Which of the following types of graphics and visualization do you employ with your HPC applications? Check all that apply.**

- No visualization usage
- Pre-process design, such as CAD/CAM, on individual PCs or workstations
- Post-process analysis rendered on individual PCs or workstations
- Post-process analysis rendered on scalable graphics servers
- Intra-process visualization for computational steering, what-if analysis, etc., rendered by the HPC/graphics server
- Remote visualization: graphics rendered on a scalable platform and served to remote clients
- Multi-user visualization: multiple users viewing or interacting with the same visualization simultaneously
- Immersive visualization: users viewing simulations through large-scale, immersive environments, such as rooms, walls, cubes, power desks, or virtual reality glasses

# 2011 IS360 Site Census

## Demographic Information

Select the best description for your organization from the list below, (note, the list is organized by commercial/industrial, government, and academic/not for profit categories).

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

Commercial/Industrial

Academic/Not-For-Profit Research

Government

Other

Please specify other

## Commercial/Industrial Subcategories

### COMMERCIAL/INDUSTRIAL SITE:

Which of the following best describes your organization? (please select one)

- Biotechnology, biochemistry, pharmaceutical
- Large product manufacturing
- Consumer products manufacturing
- Semiconductors design or manufacturing
- Chemical manufacturing and engineering (e.g., polymers, plastics)
- Medical device manufacturing
- Oil/gas exploration
- Utilities
- Financial services or insurance
- Healthcare
- Entertainment, digital content creation and distribution, or online gaming
- Other

Please specify other

## Biotechnology, Biochemistry, Pharmaceutical Subcategories

**Please check a subcategory that best applies for Biotechnology, Biochemistry, Pharmaceutical industry.**

General Pharmaceutical

Genomics

Proteomics

Systems Biology

Other

Please specify other

## Large Product Manufacturing Subcategories

**Please check a subcategory that best applies for Large Product Manufacturing industry.**

Automotive

Aerospace

Other

Other (please specify)

## Oil/gas Subcategories

**Please check a subcategory that best applies for Oil/Gas Exploration industry?**

Seismic analysis

Reservoir modeling

Other

Please specify other

## Utilities Subcategory

**Please check a subcategory that best applies for Utilities industry.**

Power generation distribution

Telecommunications

Pipeline management

Other

Please specify other

## Financial Services or Insurance Subcategories

**Please check a subcategory that best applies for Financial Services or Insurance industry.**

Retail bank

Capital markets

Insurance

Other

Please specify other

## Entertainment, Digital Content Creation Subcategories

**Please check a subcategory that best applies for Entertainment, Digital Content Creation, or Online Gaming industry.**

Entertainment

Digital Content Creation

Online gaming

Other

Please specify other

## Government

### GOVERNMENT SITE:

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)

## Academic

### ACADEMIC/NOT-FOR-PROFIT RESEARCH SITE:

Which of the following best describes your type of organization?

Public college/university

Private college/university

Multi-university consortium

Not-for-profit research institution

Other academic/research site (please specify)

## Other Sector

Please specify your industry.

## Demographic Information cont.

### 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 to \$4,999,999
- \$5,000,000 to \$9,999,999
- \$10,000,000 or higher
- Don't know

### How many employees does your organization have?

- 1-49
- 50-99
- 100-249
- 250-999
- 1,000-4,999
- >5,000

### (Optional) What is the salary range for your position?

- Under \$50,000
- \$50,000 to \$100,000
- Over \$100,000

## Thank you for your time

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

Please exit the browser and have a great day.

## 2011 IS360 Site Census

### Thank you for your time

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

Please exit the browser and have a great day.

## Amazon Gift Card

Thank you for participating in our survey. As a gesture of our gratitude to those completing our questionnaire, we offer a \$25 gift certificate to Amazon.com.

**Would you like to receive a \$25 Amazon gift certificate? (Please note: Only qualified respondents who have taken the full survey will receive the gift card.)**

Yes -- Contact information must be provided on the next page.

No thank you.

# 2011 IS360 Site Census

## Contact Information

You have completed the survey. All personal information provided will be kept confidential.

Thank you for your participation!

**Please provide 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:	<input type="text"/>
Company:	<input type="text"/>
Address 1:	<input type="text"/>
Address 2:	<input type="text"/>
City/Town:	<input type="text"/>
State/Province:	<input type="text"/>
ZIP/Postal Code:	<input type="text"/>
Country:	<input type="text"/>
Email Address:	<input type="text"/>
Phone Number:	<input type="text"/>