

#### 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 hyperscale 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 Chris Willard at Chris@Intersect360.com if you have any questions or comments. Thank you again for your help.

Click the NEXT button below to begin.



### Country

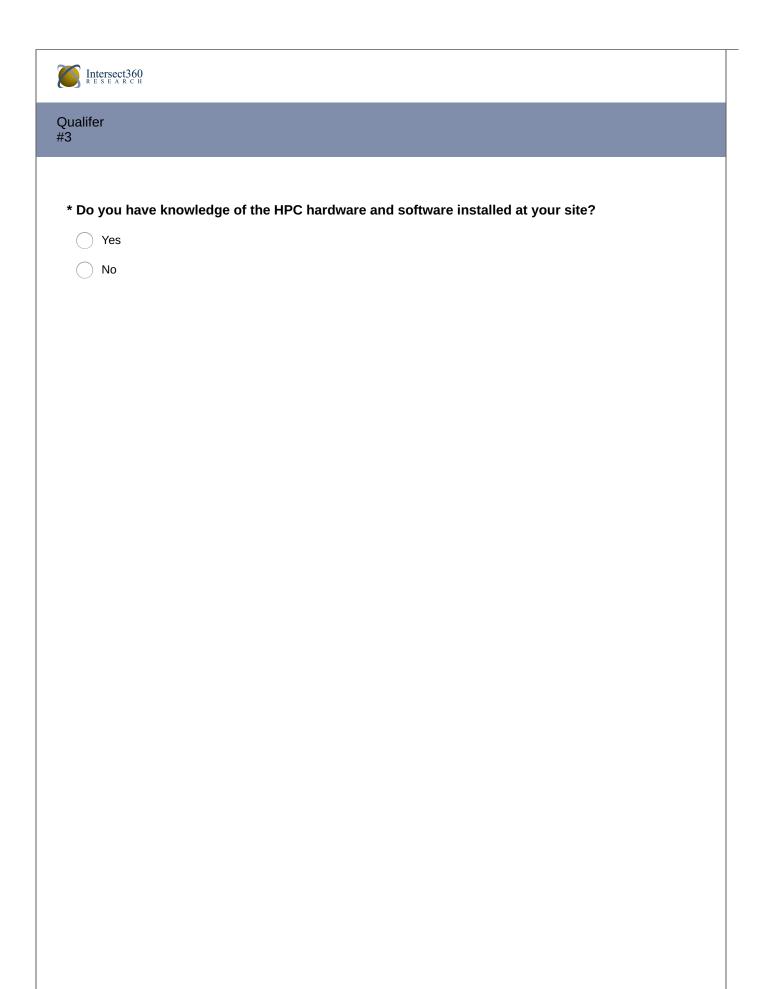
Australia	India	Saudi Arabia
Austria	Ireland	Singapore
Belgium	Israel	South Africa
Brazil	<b>Italy</b>	Spain
Canada	Japan	Sweden
China	Korea, South	Switzerland
Czech Republic	Netherlands	Taiwan
Denmark	New Zealand	Thailand
Finland	Norway	Ukraine
France	Poland	United Kingdom
Germany	Russia	United States
Other country:		

Intersect 360 RESEARCH
Qualifier #1

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



	odynamics re		



Intersect 360		
Qualifer #4		
* Do you wo	ork for a computer hardware or software vendor that sells to HPC users?	
Yes		
O No		



Introduction
Please provide a response to each question.
* What is the name of your organization? (All survey responses are kept anonymous. We will not identify your organization as a respondent to this survey.)
* What is your job title?



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:	
Model:	
What year was this s	system acquired and when was it last upgraded?
Year Acquired:	
Last Year Upgraded:	
How acquired (direc	t sales rep, reseller, web):
direct sales rep	
reseller	
web	
on't know	
Other (please specif	у)

AIC	hitecture (SMP, MPP, cluster, blade, etc.):
	SMP
	MPP
	Cluster
	Blade based
$\bigcirc$	Vector
	Uniprocessor
	Cloud
	Other (please specify)
Wha	at is the primary Operating system:
$\bigcirc$	SUSE/OpenSUSE
	Red Hat
	CENT OS
	Other commercial Linux
	Non-commercial Linux
	Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)
	Windows Server (Windows Server 2003, Windows Server 2000)
	Windows Client (XP, Vista, Windows 7, or older)
	Mac OS X
	AIX
	Solaris
	Irix
	Other (please specify)
Nun	nber of nodes:
(Foi	r SMP or Uni-processor systems set the number of nodes to 1.)
	average, how many additional nodes (servers) do you <u>add</u> to your cluster/blade/mpp each year

What is the averag	e cost of a node on this system?Please specify currency.
or the following pr	ocessor questions, please provide information on the main processor.
• .	erators/co-processors will be asked later in the survey.
iodiono di addo	eraters, so proceeders will be ached rater in the carrey.
Processor type (Al	MD x86-64, Intel x86-64, Power, Sparc, etc.):
Number of process	sors per node:
(NOTE: For next 4	questions, for clustered systems with multiple node types configured, use the
predominant node	for your responses.)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	
Amount of memory	y per node in GB:
Amount of memory	y per node in GB:
Amount of memory	y per node in GB:
Awerage node-leve Average storage capacity per node:	y per node in GB:
Amount of memory  Average node-leve  Average storage	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB,	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system to Yes	y per node in GB:
Amount of memory  Average node-leve  Average storage capacity per node:  Unit of measure (GB, TB, PB, other):  Does this system to Yes  No	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system to Yes	y per node in GB:

Storage capacity of direct attached storage for this system: (Do not include netw	orked-attached
storage)	
Total Storage Capcity of DAS:	
Unit of Measure (GB, TB, PB, other):	
For cluster, blade and MPP configurations, please list:  Interconnect Supplier	1
(Primary):  Interconnect Supplier (Secondary):	]
For cluster, blade, and MPP configurations, please list primary Interconnect type	:
1 Gbps Ethernet	
10 Gbps Ethernet	
40 Gbps Ethernet	
100 Gbps Ethernet	
Older Ethernet (100 Mbps or less)	
Ethernet, unknown speed	
10 Gbps Infiniband	
20 Gbps Infiniband	
40 Gbps Infiniband	
56 Gbps Infiniband (FDR)	
100 Gbps Infiniband (EDR)	
200 Gbps Infiniband (HDR)	
Infiniband, unknown speed	
100 Gbps Omni-Path	
Fibre Channel	
On't know	
Other (please specify)	

For	cluster, blade, and MPP configurations, please list secondary Interconnect type:
	1 Gbps Ethernet
	10 Gbps Ethernet
O •	40 Gbps Ethernet
	100 Gbps Ethernet
	Older Ethernet (100 Mbps or less)
	Ethernet, unknown speed
	10 Gbps Infiniband
	20 Gbps Infiniband
O 4	40 Gbps Infiniband
	56 Gbps Infiniband (FDR)
	100 Gbps Infiniband (EDR)
	200 Gbps Infiniband (HDR)
	Infiniband, unknown speed
	100 Gbps Omni-Path
	Fibre Channel
	Don't know
	Not Applicable
	Other (please specify)
tech	elerator/Co-processor/FPGA Technology - please answer the following if this system uses the nologies:
Acce	lerator name/type:
Numl	per of Nodes with Accelerators:
	per of Accelerators per node: (use per per per per per per per per per pe
predo	,

		s - please answer the following if this system has any specializ	ed large memory	_
	nodes:			
	Number of Large Memory Nodes:			
	Average memory capacity (please specify			
	units - GB,TB)			
,	* Do you have another	r installed server system to report on?		
	Yes			
	○ No			



Please provide as much of the following information as possible for your 2nd system:

### **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.

AIC	hitecture (SMP, MPP, cluster, blade, etc.):
	SMP
	MPP
	Cluster
	Blade based
$\bigcirc$	Vector
	Uniprocessor
	Cloud
	Other (please specify)
Wha	at is the primary Operating system:
$\bigcirc$	SUSE/OpenSUSE
	Red Hat
	CENT OS
	Other commercial Linux
	Non-commercial Linux
	Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)
	Windows Server (Windows Server 2003, Windows Server 2000)
	Windows Client (XP, Vista, Windows 7, or older)
	Mac OS X
	AIX
	Solaris
	Irix
	Other (please specify)
Nun	nber of nodes:
(Foi	r SMP or Uni-processor systems set the number of nodes to 1.)
	average, how many additional nodes (servers) do you <u>add</u> to your cluster/blade/mpp each year

What is the average	e cost of a node on this system?Please specify currency.
r the following pr	ocessor questions, please provide information on the main processor.
	erators/co-processors will be asked later in the survey.
iodiono di addo	eraterares processors will be asked rater in the sarvey.
Processor type (Al	MD x86-64, Intel x86-64, Power, Sparc, etc.):
Number of process	sors per node:
(NOTE: For next 4	questions, for clustered systems with multiple node types configured, use the
predominant node	for your responses.)
Number of cores p	er processor: (physical cores, not threads)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p  Amount of memory	
Amount of memor	y per node in GB:
Amount of memor	y per node in GB:
Amount of memor	y per node in GB:
Awerage node-leve Average storage capacity per node:	y per node in GB:
Amount of memory  Average node-leve  Average storage	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB,	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):	y per node in GB:
Awerage node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system of the system of th	y per node in GB:
Amount of memory  Average node-leve  Average storage capacity per node:  Unit of measure (GB, TB, PB, other):  Does this system of the system	y per node in GB:
Awerage node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system of the system of th	y per node in GB:

Storage capacity of direct attached storage for this system: (Do not include netwo	orked-attached
storage)	
Total Storage Capcity of	
Unit of Measure (GB, TB, PB, other):	
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:	
1 Gbps Ethernet	
10 Gbps Ethernet	
40 Gbps Ethernet	
100 Gbps Ethernet	
Older Ethernet (100 Mbps or less)	
Ethernet, unknown speed	
10 Gbps Infiniband	
20 Gbps Infiniband	
40 Gbps Infiniband	
56 Gbps Infiniband (FDR)	
100 Gbps Infiniband (EDR)	
200 Gbps Infiniband (HDR)	
Infiniband, unknown speed	
100 Gbps Omni-Path	
Fibre Channel	
On't know	
Other (please specify)	

	1 Gbps Ethernet
	10 Gbps Ethernet
	40 Gbps Ethernet
	100 Gbps Ethernet
$\bigcirc$	Older Ethernet (100 Mbps or less)
	Ethernet, unknown speed
	10 Gbps Infiniband
	20 Gbps Infiniband
	40 Gbps Infiniband
	56 Gbps Infiniband (FDR)
	100 Gbps Infiniband (EDR)
	200 Gbps Infiniband (HDR)
	Infiniband, unknown speed
	100 Gbps Omni-Path
	Fibre Channel
	Don't know
	Not Applicable
	Other (please specify)
Acc	
	plier name:
Acce	elerator name/type:
Num	nber in Nodes with Accelerators:
Num	nber of Accelerators per node: (use lominant, if number varies)
pred	onimant, in number varies)

		s - please answer the following if this system has any specialize	ed large memory	_
	nodes:			
	Number of Large Memory Nodes:			
	Average memory capacity (please specify			
	units - GB,TB)			
,	* Do you have another	r installed server system to report on?		
	Yes			
	○ No			



Please provide as much of the following information as possible for your 3rd system:

#### **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.

SMP MPP Cluster Blade based Vector Uniprocessor Cloud Other (please specify)  What is the primary Operating system: SUSE/OpenSUSE Red Hat CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris Irix Other (please specify)	Arc	hitecture (SMP, MPP, cluster, blade, etc.):
Cluster  Blade based  Vector  Uniprocessor  Cloud  Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		SMP
Blade based  Vector  Uniprocessor  Cloud  Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		MPP
Vector Uniprocessor Cloud Other (please specify)  What is the primary Operating system: SUSE/OpenSUSE Red Hat CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris Irix		Cluster
Uniprocessor  Cloud  Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix	$\bigcirc$	Blade based
Cloud Other (please specify)  What is the primary Operating system: SUSE/OpenSUSE Red Hat CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris Irix	$\bigcirc$	Vector
Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Uniprocessor
What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Cloud
SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Other (please specify)
SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		
SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		
Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix	Wha	at is the primary Operating system:
CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris Irix	$\bigcirc$	SUSE/OpenSUSE
Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Red Hat
Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		CENT OS
Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Other commercial Linux
Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Non-commercial Linux
Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris  Irix		Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)
Mac OS X  AIX  Solaris  Irix		Windows Server (Windows Server 2003, Windows Server 2000)
AIX Solaris Irix		Windows Client (XP, Vista, Windows 7, or older)
Solaris  Irix		Mac OS X
Irix		AIX
		Solaris
Other (please specify)		Irix
		Other (please specify)
	(Fo	r SMP or Uni-processor systems set the number of nodes to 1.)
(For SMP or Uni-processor systems set the number of nodes to 1.)		
(For SMP or Uni-processor systems set the number of nodes to 1.)		
	On	average, how many additional nodes (servers) do you <u>add</u> to your cluster/blade/mpp each year
For SMP or Uni-processor systems set the number of nodes to 1.)  On average, how many additional nodes (servers) do you <u>add</u> to your cluster/blade/mpp each year		

What is the averag	e cost of a node on this system?Please specify currency.
• .	ocessor questions, please provide information on the main processor.
iestions on accei	erators/co-processors will be asked later in the survey.
Processor type (AM	MD x86-64, Intel x86-64, Power, Sparc, etc.):
Number of process	•
-	questions, for clustered systems with multiple node types configured, use th for your responses.)
<b>F</b>	Ter year respenses,
Number of cores n	er processor: (physical cores, not threads)
Number of cores p	er processor. (priysical cores, not tilleaus)
Amount of memory	v nor node in GP:
Amount of memory	y per node in GB.
Average node-leve	I storage:
_	l storage:
Average storage	I storage:
Average node-leve Average storage capacity per node: Unit of measure (GB,	I storage:
Average storage capacity per node: Unit of measure (GB,	I storage:
Average storage capacity per node: Unit of measure (GB, TB, PB, other):	
Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system u	I storage:  Lise SSDs for node-level storage?
Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system uses Yes	
Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system uses Yes  No	
Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system uses Yes	

Storage capacity of direct attached storage for this system: (Do not include netwo	orked-attached
storage)	
Total Storage Capcity of	
Unit of Measure (GB, TB, PB, other):	
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:	
1 Gbps Ethernet	
10 Gbps Ethernet	
40 Gbps Ethernet	
100 Gbps Ethernet	
Older Ethernet (100 Mbps or less)	
Ethernet, unknown speed	
10 Gbps Infiniband	
20 Gbps Infiniband	
40 Gbps Infiniband	
56 Gbps Infiniband (FDR)	
100 Gbps Infiniband (EDR)	
200 Gbps Infiniband (HDR)	
Infiniband, unknown speed	
100 Gbps Omni-Path	
Fibre Channel	
On't know	
Other (please specify)	

	1 Gbps Ethernet
	10 Gbps Ethernet
	40 Gbps Ethernet
	100 Gbps Ethernet
$\bigcirc$	Older Ethernet (100 Mbps or less)
	Ethernet, unknown speed
	10 Gbps Infiniband
	20 Gbps Infiniband
	40 Gbps Infiniband
	56 Gbps Infiniband (FDR)
	100 Gbps Infiniband (EDR)
	200 Gbps Infiniband (HDR)
	Infiniband, unknown speed
	100 Gbps Omni-Path
	Fibre Channel
	Don't know
	Not Applicable
	Other (please specify)
Acc	
	plier name:
Acce	elerator name/type:
Num	nber in Nodes with Accelerators:
Num	nber of Accelerators per node: (use lominant, if number varies)
pred	onimant, in number varies)

		s - please answer the following if this system has any specialize	ed large memory	_
	nodes:			
	Number of Large Memory Nodes:			
	Average memory capacity (please specify			
	units - GB,TB)			
,	* Do you have another	r installed server system to report on?		
	Yes			
	○ No			



Please provide as much of the following information as possible for your 4th system:

#### **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:	
Model:	
What year was this s	system acquired and when was it last upgraded?
Year Acquired:	
Last Year Upgraded:	
How acquired (direct sales rep direct sales rep reseller web don't know Other (please specification)	t sales rep, reseller, web):

	hitecture (SMP, MPP, cluster, blade, etc.):
	SMP
	MPP
	Cluster
	Blade based
$\bigcirc$	Vector
	Uniprocessor
	Cloud
	Other (please specify)
	at is the primary Operating system:
	SUSE/OpenSUSE
	Red Hat
	CENT OS
	Other commercial Linux
	Non-commercial Linux
_	Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)
	Windows Server (Windows Server 2003, Windows Server 2000)
$\bigcirc$	Windows Client (XP, Vista, Windows 7, or older)
$\bigcirc$	Mac OS X
$\bigcirc$	AIX
$\bigcirc$	Solaris
$\bigcirc$	Irix
	Other (please specify)
N1	whom of modes.
	nber of nodes: r SMP or Uni-processor systems set the number of nodes to 1.)
_	· · · · · · · · · · · · · · · · · · ·

What is the averag	e cost of a node on this system?Please specify currency.
r the following pr	ocessor questions, please provide information on the main processor.
• .	erators/co-processors will be asked later in the survey.
iodiono di addo	eraters so processors will be asked rater in the salvey.
Processor type (Al	MD x86-64, Intel x86-64, Power, Sparc, etc.):
Number of process	sors per node:
(NOTE: For next 4	questions, for clustered systems with multiple node types configured, use the
predominant node	for your responses.)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	per processor: (physical cores, not threads)
Number of cores p	
Amount of memory	y per node in GB:
Amount of memory	y per node in GB:
Amount of memory	y per node in GB:
Awerage node-leve Average storage capacity per node:	y per node in GB:
Amount of memory  Average node-leve  Average storage	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB,	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system to Yes	y per node in GB:
Amount of memory  Average node-leve  Average storage capacity per node:  Unit of measure (GB, TB, PB, other):  Does this system to Yes  No	y per node in GB:
Awerage node-leve Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system to Yes	y per node in GB:

Storage capacity of direct attached storage for this system: (Do not include netw	orked-attached
storage)	
Total Storage Capcity of DAS:	
Unit of Measure (GB, TB, PB, other):	
For cluster, blade and MPP configurations, please list:  Interconnect Supplier	1
(Primary):  Interconnect Supplier (Secondary):	]
For cluster, blade, and MPP configurations, please list primary Interconnect type	:
1 Gbps Ethernet	
10 Gbps Ethernet	
40 Gbps Ethernet	
100 Gbps Ethernet	
Older Ethernet (100 Mbps or less)	
Ethernet, unknown speed	
10 Gbps Infiniband	
20 Gbps Infiniband	
40 Gbps Infiniband	
56 Gbps Infiniband (FDR)	
100 Gbps Infiniband (EDR)	
200 Gbps Infiniband (HDR)	
Infiniband, unknown speed	
100 Gbps Omni-Path	
Fibre Channel	
On't know	
Other (please specify)	

	1 Gbps Ethernet
	10 Gbps Ethernet
O 4	40 Gbps Ethernet
	100 Gbps Ethernet
	Older Ethernet (100 Mbps or less)
	Ethernet, unknown speed
	10 Gbps Infiniband
	20 Gbps Infiniband
O •	40 Gbps Infiniband
	56 Gbps Infiniband (FDR)
	100 Gbps Infiniband (EDR)
	200 Gbps Infiniband (HDR)
	Infiniband, unknown speed
	100 Gbps Omni-Path
	Fibre Channel
	Don't know
	Not Applicable
	Other (please specify)
	Not Applicable
	nologies:
Supp	lier name:
Acce	lerator name/type:
Numl	ber of Nodes with Accelerators:
	ber of Accelerators per node: (use point and the control of the co
predo	•

Large memory node	s - please answer the following if this system has any specialize	ed large memory	-
nodes:			
Number of Large Memory Nodes:			
Average memory capacity (please specify			
units - GB,TB)			
	r installed server system to report on?		
Yes			
○ No			



Please provide as much of the following information as possible for your 5th system:

### **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:	
Model:	
What was a was this	
what year was this	system acquired and when was it last upgraded?
Year Acquired:	
Last Year Upgraded:	
How acquired (dire	ct sales rep, reseller, web):
direct sales rep	
reseller	
web	
on't know	
Other (please spec	rify)

MPP Cluster Blade based Vector Uniprocessor Cloud Other (please specify)  What is the primary Operating system: SUSE/OpenSUSE Red Hat CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris Irix	
Cluster  Blade based  Vector  Uniprocessor  Cloud  Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Blade based  Vector  Uniprocessor  Cloud  Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Vector Uniprocessor Cloud Other (please specify)  What is the primary Operating system: SUSE/OpenSUSE Red Hat CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris	
Uniprocessor  Cloud  Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Cloud Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE Red Hat CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris	
Other (please specify)  What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
What is the primary Operating system:  SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
SUSE/OpenSUSE  Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Red Hat  CENT OS  Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
CENT OS Other commercial Linux Non-commercial Linux Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older) Windows Server (Windows Server 2003, Windows Server 2000) Windows Client (XP, Vista, Windows 7, or older) Mac OS X AIX Solaris	
Other commercial Linux  Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Non-commercial Linux  Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Windows HPC Server (HPC Server 2008, Compute Cluster Server 2003 or older)  Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Windows Server (Windows Server 2003, Windows Server 2000)  Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Windows Client (XP, Vista, Windows 7, or older)  Mac OS X  AIX  Solaris	
Mac OS X  AIX  Solaris	
AIX Solaris	
Solaris	
☐ Irix	
Other (please specify)	
Number of nodes:	
(For SMP or Uni-processor systems set the number of nodes to 1.)	
On average, how many additional nodes (servers) do you <u>add</u> to your cluster/b	lade/mpp each yea

What is the averag	ge cost of a node on this system?Please specify currency.
	ge oost of a float off and system. Trease speemy currency.
• .	rocessor questions, please provide information on the main processor.
iestions on accei	lerators/co-processors will be asked later in the survey.
Processor type (A	MD x86-64, Intel x86-64, Power, Sparc, etc.):
Number of proces	•
-	questions, for clustered systems with multiple node types configured, use the for your responses.)
predominant node	. Tol your responses.
Number of cores p	per processor: (physical cores, not threads)
Amount of memor	y per node in GB:
Amount of memor	y per node in GB:
Amount of memor	y per node in GB:
Amount of memor	
Average node-leve	
Average node-leve	
Average node-leve Average storage capacity per node:	
Average node-leve Average storage capacity per node: Unit of measure (GB,	
Average node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):	
Average node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):	el storage:
Average node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system	el storage:
Average node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system Yes	el storage:
Average node-level Average storage capacity per node: Unit of measure (GB, TB, PB, other):  Does this system Yes No	el storage:

Storage capacity of direct attached storage for this system: (Do not include netw	orked-attached
storage)	
Total Storage Capcity of DAS:	
Unit of Measure (GB, TB, PB, other):	
For cluster, blade and MPP configurations, please list:  Interconnect Supplier	1
(Primary):  Interconnect Supplier (Secondary):	]
For cluster, blade, and MPP configurations, please list primary Interconnect type	:
1 Gbps Ethernet	
10 Gbps Ethernet	
40 Gbps Ethernet	
100 Gbps Ethernet	
Older Ethernet (100 Mbps or less)	
Ethernet, unknown speed	
10 Gbps Infiniband	
20 Gbps Infiniband	
40 Gbps Infiniband	
56 Gbps Infiniband (FDR)	
100 Gbps Infiniband (EDR)	
200 Gbps Infiniband (HDR)	
Infiniband, unknown speed	
100 Gbps Omni-Path	
Fibre Channel	
On't know	
Other (please specify)	

	1 Gbps Ethernet
	10 Gbps Ethernet
	40 Gbps Ethernet
	100 Gbps Ethernet
$\bigcirc$	Older Ethernet (100 Mbps or less)
	Ethernet, unknown speed
	10 Gbps Infiniband
	20 Gbps Infiniband
	40 Gbps Infiniband
	56 Gbps Infiniband (FDR)
	100 Gbps Infiniband (EDR)
	200 Gbps Infiniband (HDR)
	Infiniband, unknown speed
	100 Gbps Omni-Path
	Fibre Channel
	Don't know
	Not Applicable
	Other (please specify)
	Other (please specify)  celerator/Co-processor/FPGA Technology - please answer the following if this system uses the
	hnologies: plier name:
Acce	elerator name/type:
Num	nber in Nodes with Accelerators:
	nber of Accelerators per node: (use dominant if number varies)
pred	

Number of Large		
Memory Nodes:		
Average memory		
capacity (please specify		
units - GB,TB)		



### Networked Storage System

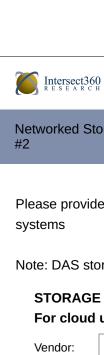
For your Network-Attached Storage Systems:

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).

lote: DAS storage syste	ms should be reported with the system in the previous section.
STORAGE SYSTEM	#1: Vendor and model
For cloud usage, Ve	ndor = cloud service provider and Model = "cloud"
Vendor:	
Model:	
Mhat ia tha pradami	nent stavene medie en this systems?
Disk	nant storage media on this systems?
Tape	
SSD	
Other (please speci	fy)
How is this storage	system deployed?
NAS	
SAN	
Is the primary purpo	ese of this system archival?
Yes	
○ No	
What year was this s	system acquired and when was it last upgraded?
Year Acquired:	
Last Year Upgraded:	

What is total storaç	e capacity currently insta	lled on this system?	
Total Capacity Installed			
Unit of Measure (GB,			
TB, PB, other)			
Is your data for this	storage system primarily	file-based, block-base	ed, or object-based?
File			
Block			
Object			
Oon't know			
Primary network su	pplier to/from the storage	systems:	
<u> </u>			
Primary network ty	pe to/from the storage sys	stems:	
1 Gbps Ethernet			
10 Gbps Ethernet			
40 Gbps Ethernet			
100 Gbps Etherne			
Older Ethernet (10	O Mbps or less)		
Ethernet, unknown	speed		
10 Gbps Infiniband			
20 Gbps Infiniband			
40 Gbps Infiniband			
56 Gbps Infiniband	(FDR)		
100 Gbps Infinibar	d (EDR)		
200 Gbps Infinibar	d (HDR)		
Infiniband, unknow	n speed		
100 Gbps Omni-Pa	uth		
Fibre Channel			
On't know			
Other (please spec	ify)		

Storage manageme	ent software:	
Supplier		
Package Name		
What percentage o	of data is stored in	
	base) form (ex: SQL, Oracle, other database)	
70 Structured (i.e. datas	Just John (ex. 5QL, Oracle, other database)	
% Semi-structured file	system form (ex: NetCDF, HDFS, HDF5, Hbase)	
% Unstructured file sys	stem form (ex: flat files)	
_		
Do you have anoth	er installed storage system to report on?	
Yes		
No		

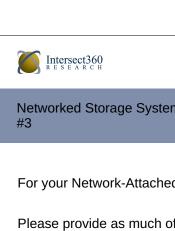


### Networked Storage System

#2 
Please provide as much of the following information as possible for each of your 2nd networked storage systems
Note: DAS storage systems should be reported with the system in the previous section.
STORAGE SYSTEM #2: Vendor and model For cloud usage, Vendor = cloud service provider and Model = "cloud"
Vendor:
Model:
What is the predominant storage media on this systems?
○ Disk
Таре
SSD
Other (please specify)
How is this storage system deployed?
○ NAS
○ SAN
Is the primary purpose of this system archival?
Yes
○ No
What year was this system acquired and when was it last upgraded?
Year Acquired:
Last Year Upgraded:

What is total storaç	e capacity currently insta	lled on this system?	
Total Capacity Installed			
Unit of Measure (GB,			
TB, PB, other)			
Is your data for this	storage system primarily	file-based, block-base	ed, or object-based?
File			
Block			
Object			
Oon't know			
Primary network su	pplier to/from the storage	systems:	
<u> </u>			
Primary network ty	pe to/from the storage sys	stems:	
1 Gbps Ethernet			
10 Gbps Ethernet			
40 Gbps Ethernet			
100 Gbps Etherne			
Older Ethernet (10	O Mbps or less)		
Ethernet, unknown	speed		
10 Gbps Infiniband			
20 Gbps Infiniband			
40 Gbps Infiniband			
56 Gbps Infiniband	(FDR)		
100 Gbps Infinibar	d (EDR)		
200 Gbps Infinibar	d (HDR)		
Infiniband, unknow	n speed		
100 Gbps Omni-Pa	uth		
Fibre Channel			
On't know			
Other (please spec	ify)		

Storage manageme	ent software:	
Supplier		
Package Name		
What percentage o	of data is stored in	
	base) form (ex: SQL, Oracle, other database)	
70 Structured (i.e. datas	Just John (cx. 5QL, Oracic, other database)	
% Semi-structured file	system form (ex: NetCDF, HDFS, HDF5, Hbase)	
% Unstructured file sys	stem form (ex: flat files)	
_		
Do you have anoth	er installed storage system to report on?	
Yes		
No		



Networked Storage System #3
For your Network-Attached Storage Systems:
Please provide as much of the following information as possible for each of your 3rd networked storage system.
Note: DAS storage systems should be reported with the system in the previous section.
STORAGE SYSTEM #3: Vendor and model  For cloud usage, Vendor = cloud service provider and Model = "cloud"
Vendor:
Model:
What is the predominant storage media on this systems?
Disk
Tape
Other (please specify)
How is this storage system deployed?
○ NAS
SAN
Is the primary purpose of this system archival?
Yes
○ No
What year was this system acquired and when was it last upgraded?
Year Acquired:
Last Year Upgraded:

What is total storaç	e capacity currently insta	lled on this system?	
Total Capacity Installed			
Unit of Measure (GB,			
TB, PB, other)			
Is your data for this	storage system primarily	file-based, block-base	ed, or object-based?
File			
Block			
Object			
Oon't know			
Primary network su	pplier to/from the storage	systems:	
<u> </u>			
Primary network ty	pe to/from the storage sys	stems:	
1 Gbps Ethernet			
10 Gbps Ethernet			
40 Gbps Ethernet			
100 Gbps Etherne			
Older Ethernet (10	O Mbps or less)		
Ethernet, unknown	speed		
10 Gbps Infiniband			
20 Gbps Infiniband			
40 Gbps Infiniband			
56 Gbps Infiniband	(FDR)		
100 Gbps Infinibar	d (EDR)		
200 Gbps Infinibar	d (HDR)		
Infiniband, unknow	n speed		
100 Gbps Omni-Pa	uth		
Fibre Channel			
On't know			
Other (please spec	ify)		

Storage managem	ent software:
Supplier	
Package Name	
What percentage o	of data is stored in
% Structured (i.e. data	abase) form (ex: SQL, Oracle, other database)
% Semi-structured file	system form (ex: NetCDF, HDFS, HDF5, Hbase)
% Unstructured file sys	stem form (ex: flat files)



## Local Area and Computer Networks

For your local area and/or computer room network installed, please list as much of the following information as possible (you will be able to enter up to 3 networks - one per page):

LOC	AL NETWORK #1: Type
	1 Gbps Ethernet
	10 Gbps Ethernet
	40 Gbps Ethernet
	100 Gbps Ethernet
	Older Ethernet (100 Mbps or less)
	Ethernet, unknown speed
	10 Gbps Infiniband
	20 Gbps Infiniband
	40 Gbps Infiniband
	56 Gbps Infiniband (FDR)
$\bigcirc$	100 Gbps Infiniband (EDR)
	200 Gbps Infiniband (HDR)
	Infiniband, unknown speed
	100 Gbps Omni-Path
	Fibre Channel
	Don't know
	Other (please specify)
Prin	nary router supplier for Network #1
De:	nam. NIC aumulian
Prin	nary NIC supplier

Do you have	another installed r	network to repo	ort on?		
Yes					
○ No					



# Local Area and Computer Networks #2

Please list as much of the following information as possible for your 2nd local area and/or computer room network.

LOCAL NETWORK #2: Type	
1 Gbps Ethernet	
10 Gbps Ethernet	
40 Gbps Ethernet	
100 Gbps Ethernet	
Older Ethernet (100 Mbps or less)	
Ethernet, unknown speed	
10 Gbps Infiniband	
20 Gbps Infiniband	
40 Gbps Infiniband	
56 Gbps Infiniband (FDR)	
100 Gbps Infiniband (EDR)	
200 Gbps Infiniband (HDR)	
Infiniband, unknown speed	
100 Gbps Omni-Path	
Fibre Channel	
Oon't know	
Other (please specify)	
Primary router supplier for Network #2	7
Primary NIC supplier	
	]

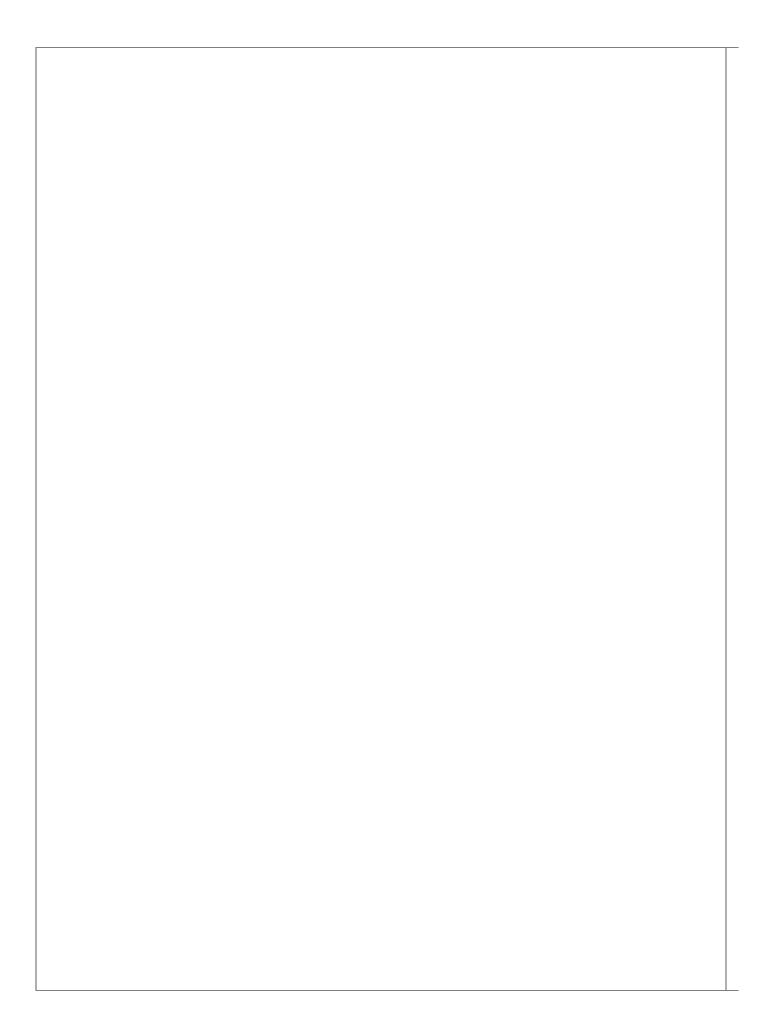
Do you have	another installed r	network to repo	ort on?		
Yes					
○ No					



# Local Area and Computer Networks #3

Please list as much of the following information as possible for your 3rd local area and/or computer room network you currently have installed

LOCAL NETWOR	K #3: Type		
1 Gbps Etherne	:		
10 Gbps Etherne	et		
40 Gbps Etherne	et		
100 Gbps Ether	net		
Older Ethernet (	100 Mbps or less)		
Ethernet, unkno	wn speed		
10 Gbps Infiniba	nd		
20 Gbps Infiniba	nd		
40 Gbps Infiniba	nd		
56 Gbps Infiniba	nd (FDR)		
100 Gbps Infinib	and (EDR)		
200 Gbps Infinib	and (HDR)		
Infiniband, unkn	own speed		
100 Gbps Omni	·Path		
Fibre Channel			
Don't know			
Other (please sp	ecify)		
Primary router su	pplier for Network #3		
Primary NIC supp	olier	1	





#### 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.

In-house packages: Enter "In-house" for supplier

0

Open Source packages:	Enter either name of the supplier organization or "Open Source".
Middleware and Util	ities Package # 1
Supplier	
Package Name	
Type/Primary Use	
Middleware and Util	ities Package # 2
Supplier	
Package Name	
Type/Primary Use	
Middleware and Util	ities Package # 3
Supplier	
Package Name	
Type/Primary Use	
Middleware and Util	ities Package # 4
Supplier	
Package Name	
Type/Primary Use	

Supplier		 	
Package Name			
			<u>_</u>
Type/Primary Use			



# Application Software Packages

Please list the primary ap	oplication software packages in use at your facility.
In-house packages: Ente Open Source packages:	er "In-house" for supplier. Enter either name of the supplier organization or "Open Source".
* Application Software	e Package # 1
Supplier	
Package Name	
Type/Primary Use	
Leverages accelerator (Y=Yes, N=No)	
Application Software	e Package # 2
Supplier	
Package Name	
Type/Primary Use	
Leverages accelerator (Y=Yes, N=No)	
Application Software	e Package # 3
Supplier	
Package Name	
Type/Primary Use	
Leverages accelerator (Y=Yes, N=No)	

Application Softwar	e Package # 4	
Supplier		
Package Name		
Type/Primary Use		
Leverages accelerator (Y=Yes, N=No)		
Application Softwa	re Package # 5	
Supplier		
Package Name		
Type/Primary Use		
Leverages accelerator (Y=Yes, N=No)		



## Demographic Information



## Commercial/Industrial Subcategories

COMMERCIAL/INDUSTRIAL SITE: Which of the following best describes your organization? (please select one)
Bio-sciences (pharmaceutical, genomics, medical device mftg. etc.)
Chemical manufacturing and engineering (e.g., polymers, plastics)
Consumer products manufacturing
Large product manufacturing (aerospace, automotive, IT sytems and software mftg,etc.)
Electronics (semiconductors, electronic components, etc.)
Energy (oil/gas exploration, alternative energy)
Professional Services (engineering consulting, cloud service provider, etc.)
Utilities (power generation, distribution, telecommunications, pipeline management)
Financial services or insurance
Media/Entertainment
Online Gaming
Retail
Transportation
Hyperscale computing
Other commercial segment (please specify):



#### Bio-sciences Subcategories

ustry.
General Pharmaceutical
Genomics
Proteomics
Medical device manufacturing
Other (please specify)



# Large Product Manufacturing Subcategories

) A	utomotive
) A	erospace
) II	Γ Systems and Software
) G	Sovernment Contractor
) o	Other (please specify)
_	



#### Electronics Subcategories

Semiconduct	or design or manufacturin	ng		
Circuit board	s			
Electronic co	mponents			
Other (please	e specify)			



#### Energy Subcategories

Oil/gas Exploration			
Alternative Energy - Sola	ır		
Alternative Energy - Wind	d		
Other (please specify)			



#### Professional Services Subcategories

Engineering Consulti	ng		
Cloud Service Provid	er		
System Integration			
System Managemen	t		
Software Developme	nt		
Other (please specify	<b>'</b> )		



#### Utilities Subcategory

Subcategory
Please check a subcategory that best applies for Utilities industry.
Power generation distribution
Telecommunications
Pipeline management  Other (places presift)
Other (please specify)



### Financial Services or Insurance Subcategories

	<b>J</b>	ncial Services o	•
Retail bank			
Capital markets			
Insurance			
Other			
Please specify other			



#### Media/Entertainment Subcategories

	subcategory that bes		
Digital Conte	nt Creation		
Other (please	specify)		
·		,	



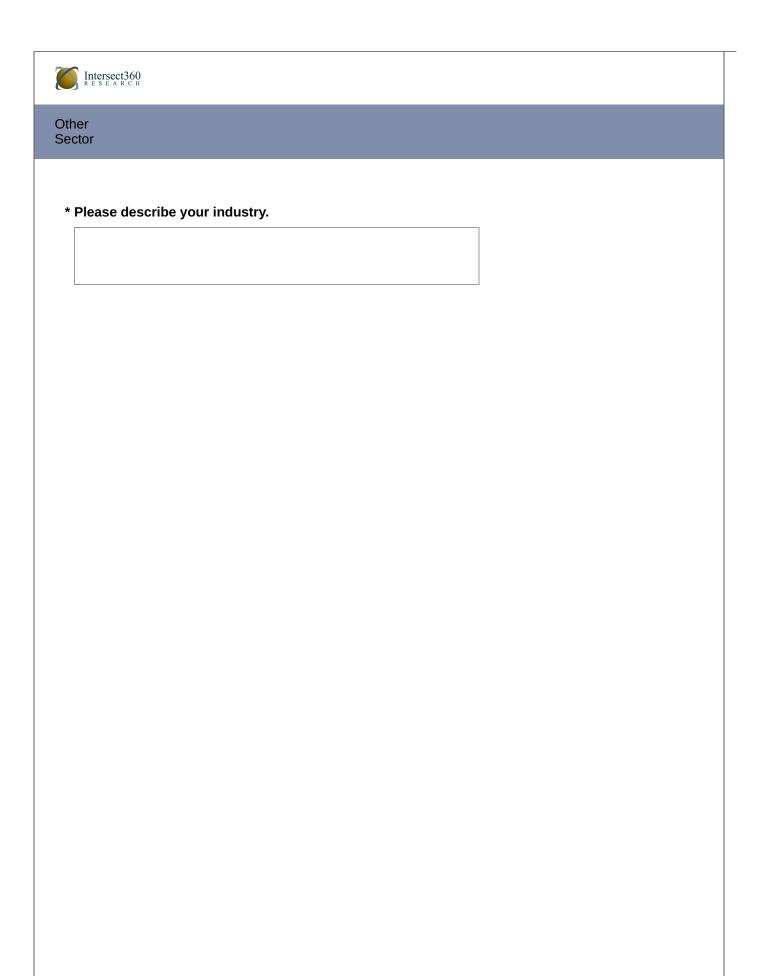
#### Government

Nation	al research lab		
Nation	al military, defense, or homeland security orga	anization	
Nation	al agency		
State o	r local government		
Goverr	ment contractor		
Other (	povernment site (please specify)		



### Academi

С	
Wh	nich 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)
	Carlet addactino research site (pieuse specify)





### 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
Not provided
For the purpose of this survey, please classify the budget level provided.
Centralized HPC facility: HPC resources for a broad spectrum of users within your overall organization (e.g. corporate-wide facility, national facility, university-wide facility, etc.)
<b>Divisional facility</b> : Provides access to HPC resources to a major sub-division of the organization (e.g. product engineering, national bio-sciences resource, engineering school)
Workgroup or lab server: Servers that are maintained by an operational unit as tools to help them address their primary research, development, or analysis activities.
Individual servers or workstations: Resources assigned to specific individuals, small groups, or labs to help them address their primary research, development, or analysis activities.
Other (please specify)

How many employees does your organization have?	
<u> </u>	
<u> </u>	
100-249	
250-999	
1,000-4,999	
>5,000	



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.



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.



## Thank You for Completing Our Survey

Thank you for taking time out to participate in our survey. We truly value the information you provided.

As an additional thank you for completing our survey, we offer you a choice of a \$25 Amazon gift card or PayPal cash transfer. In order to send you the gift card, we need you to:

- Provide your contact information All personal information will be kept confidential.
- Chose your preferred gift card type.

If you have any questions or comments about the survey, please contact Chris Willard at Chris@Intersect360.com.

Thank you again.

Work email address is required to receive a gift card or PayPal cash transfer. We will be glad to send the card to another email address if preferred.

Name:		
Company/Organization:		
Work Email:		
Email for gift card or PayPal (if different):		
Phone Number		
We reserve the right to I	u would like to receive your thank you gift.  imit the number of gift cards sent out to respondents from a single organization, economic	s sector, industry
We reserve the right to I	, , ,	s sector, industry
We reserve the right to I group, or region.  Amazon gift card (2:	imit the number of gift cards sent out to respondents from a single organization, economic	c sector, industry
We reserve the right to I group, or region.  Amazon gift card (2:	imit the number of gift cards sent out to respondents from a single organization, economic 5 USD, valid only on Amazon.com)	s sector, industry

PLEASE ADD OUR DOMAIN (@INTERSECT360.COM) TO YOUR SAFE SENDER LIST: We will email your electronic gift card to you. In the past, we have had a few emails end up in spam folders.