

Appended Table 1 (Re: Article 11)

Course	Category	Description	Charge (JPY)
General	Basic service	All persons who applied for using the Large-Scale Computer System except for Students (for each application)	12,960 per year
		Students who applied for using the Large-Scale Computer System (for each application)	2,160 per year
Additional service	Supercomputer system	Select the relevant usage of batch processing from among the following (limited to the use within a fiscal year)	
		1. Data processing by using shared nodes (multiple Users share the resources; the same applies hereinafter)	
		(1) Subsystem A (consisting of 1,004 nodes and each node has two multicore CPUs and 384 GB memory; hereinafter the same)	
		Operation Time up to 3,000,000 sec.	24,000
		Operation Time up to 15,000,000 sec.	81,000
		Operation Time up to 100,000,000 sec.	405,000
		Operation Time up to 250,000,000 sec.	810,000
		(2) Subsystem B (consisting of 288 nodes and each node has one many-core CPU and 96 GB memory; hereinafter the same)	
		Operation Time up to 3,000,000 sec.	19,500
		Operation Time up to 15,000,000 sec.	66,000
Operation Time up to 100,000,000 sec.	330,000		
Operation Time up to 250,000,000 sec.	660,000		
2. Data processing by using fixed-rate exclusive nodes (a User and her/his permitted colleagues use one or more nodes fully dedicated for their use; hereinafter the same) and the use of supercomputer storage			
(1) Subsystem A	93,000		
For each node (including 3TB work area)			

	(2) Subsystem B For each node (including 3TB work area)	78,000
	3. The use of supercomputer storage	
	(1) home area (per 1TB)	20,000
	(2) work area (per 3TB)	30,000
Cloud system	Select the relevant cloud system from among the following (limited to the use within a fiscal year)	
	1. Cloud server	
	(1) Virtual server (per unit) (minimum use of two units required.)	700 per month 8,400 per year
	(2) Physical server (per server)	14,000 per month 168,000 per year
	(3) Graphics Processing Unit (hereinafter referred to as "GPU") server (per server)	20,000 per month 240,000 per year
	(4) Additional storage (per 1TB)	500 per month 6,000 per year
	2. Intercloud Package (virtual private cloud system deployed using physical servers installed at different sites nationwide; hereinafter the same)	
	(1) Three sites (per package)	42,000 per month 504,000 per year
	(2) Four sites (per package)	56,000 per month 672,000 per year
	3. Transfer server	
	(1) Hosting server	2,268 per month 27,216 per year
	(2) S-Server (per server)	1,026 per month 12,312 per year
	(3) M-Sever (per server)	4,104 per month 49,248 per year
	(4) L-Server (per server)	10,260 per month 123,120 per year
	(5) Additional storage to S, M and L Server (per 1TB)	1,890 per month 22,680 per year
	4. Cloud storage (per 1TB)	500 per month 6,000 per year
Output	The use of large format color printer Plain paper	432 per paper

			Coated paper	1,188 per paper
			Cloth	3,996 per paper

Remarks

- (1) Out of the services available for the Large-Scale Computer System, persons who apply for the general course may use: supercomputer; application server; supercomputer storage; cloud server (virtual server, physical server, GPU server and transfer server); cloud storage; and large format printer.
- (2) The basic service includes the following:
 - (i) Supercomputer service
 - (a) The use of shared nodes for trial and debugging
 - (b) The use of application server
 - (c) Home area (supercomputer storage)
 - (ii) Cloud service
 - Cloud storage
- (3) When paying the Charge for the basic service, special fee for Students shall apply upon receiving a copy of applicant's student ID. Persons studying at the institution other than the university, junior college and college of technology may only be entitled to the special fee if specially approved by the Director.
- (4) In the service of using shared nodes, the operation time shall be calculated as the product of the number of used nodes and the elapsed time (in seconds).
- (5) Fixed-rate exclusive nodes shall be available from the date of approval to the end of the fiscal year, and the user charge shall be as set forth below in accordance with the date of approval.
 - (i) When the approval date falls between April and June: 100% of the user charge specified in the table
 - (ii) When the approval date falls between July and September: 75% of the user charge specified in the table
 - (iii) When the approval date falls between October and December: 50% of the user charge specified in the table
 - (iv) When the approval date falls between January and March: 25% of the user charge specified in the table
- (6) A research group may jointly use the supercomputer system (i.e., data processing by using shared nodes and by using fixed-rate exclusive nodes, and the use of supercomputer storage; hereinafter referred to as "Additional Service"). In this case, members of the research group shall be appointed from among the Users by the applicant of the Additional Service.
- (7) Configurations of the server services available under the cloud server shall be as set forth in the following.

- (i) Virtual servers (per unit): 1 Core, 6GB Memory, 50GB Storage
 - (ii) Physical servers (per server): 40 Cores, 256GB Memory, 2TB Storage
 - (iii) GPU servers (per server): 40 Cores, 256GB Memory, 2TB Storage, 2 GPUs (Tesla V100)
- (8) Configurations of the server services available under the transfer server shall be as set forth in the following.
- (i) Hosting servers (per server): 1 Core (HA functionality), 3GB Memory, 100GB Storage
 - (ii) S-Server (per server): 1 Core, 3GB Memory, 100GB Storage
 - (iii) M-Server (per server): 4 Cores, 12GB Memory, 100GB Storage
 - (iv) L-Server (per server): 10 Cores, 30GB Memory, 100GB Storage
- (9) Intercloud Package may only be used by persons who are selected for the research project using the HPCI System offered by the Research Organization for Information Science and Technology (RIST) or for the joint-research project offered by the Joint Usage/Research Center for Interdisciplinary Large-scale Information Infrastructures (JHPCN). However, if it is found appropriate by the Director, persons other than the aforementioned may use the Intercloud Package to the extent not interfering with their use.
- (10) Following are the locations and the number of physical servers available for the Intercloud Package.
- (i) Three locations: One physical server available at Hokkaido University, University of Tokyo and Osaka University respectively.
 - (ii) Four locations: One physical server available at Hokkaido University, University of Tokyo, Osaka University and Kyushu University respectively.

Appended Table 2 (Re: Article 11)

Course	Category	Description	Charge (JPY)
Private Sector	Basic service	All persons who applied for using the Large-Scale Computer System (for each application)	12,960 per year
	Additional service	<p>Supercomputer system</p> <p>Select the relevant usage of batch processing from among the following (limited to the use within a fiscal year)</p> <p>1. Data processing by using shared nodes</p> <p>(1) Subsystem A</p> <p>Operation Time up to 3,000,000 sec. 36,000</p> <p>Operation Time up to 15,000,000 sec. 121,500</p> <p>Operation Time up to 100,000,000 sec. 607,500</p> <p>Operation Time up to 250,000,000 sec. 1,215,000</p> <p>(2) Subsystem B</p> <p>Operation Time up to 3,000,000 sec. 29,250</p> <p>Operation Time up to 15,000,000 sec. 99,000</p> <p>Operation Time up to 100,000,000 sec. 495,000</p> <p>Operation Time up to 250,000,000 sec. 990,000</p> <p>2. Data processing by using fixed-rate exclusive nodes and the use of supercomputer storage</p> <p>(1) Subsystem A 139,500</p> <p>For each node (including 3TB work area)</p> <p>(2) Subsystem B 117,000</p> <p>For each node (including 3TB work area)</p> <p>3. The use of supercomputer storage</p> <p>(1) home area (per 1 TB) 30,000</p> <p>(2) work area (per 3 TB) 45,000</p>	
	Cloud system	<p>Select the relevant cloud system from among the following (limited to the use within a fiscal year)</p> <p>1. Cloud server</p> <p>(1) Virtual server (per unit) 1,050 per month</p> <p>(minimum use of two units required) 12,600 per year</p> <p>(2) Physical server (per server) 21,000 per month</p> <p>252,000 per year</p>	

		(3) GPU server (per server)	30,000 per month 360,000 per year
		(4) Additional storage (per 1TB)	750 per month 9,000 per year
		2. Cloud storage (per 1TB)	750 per month 9,000 per year

Remarks

- (1) Out of the services available for the Large-Scale Computer System, persons who apply for the private sectors course may use: supercomputer; supercomputer storage; cloud server (virtual server, physical server and GPU server); and cloud storage.
- (2) The basic service includes the following:
 - (i) Supercomputer service
 - (a) Experimental use and the use of shared nodes for debugging
 - (b) Home area (supercomputer storage)
 - (ii) Cloud service
 - Cloud storage
- (3) In the service of using shared nodes, the operation time shall be calculated as the product of the number of used nodes and the elapsed time (in seconds).
- (4) Fixed-rate exclusive nodes shall be available from the date of approval to the end of the fiscal year, and the user charge shall be as set forth below in accordance with the date of approval.
 - (i) When the approval date falls between April and June: 100% of the user charge specified in the table
 - (ii) When the approval date falls between July and September: 75% of the user charge specified in the table
 - (iii) When the approval date falls between October and December: 50% of the user charge specified in the table
 - (iv) When the approval date falls between January and March: 25% of the user charge specified in the table
- (5) A research group may jointly use the Additional Service. In this case, members of the research group shall be appointed from among the Users by the applicant of the Additional Service.
- (6) Configurations of the server services available under the cloud server shall be as set forth in the following.
 - (i) Virtual server (per unit): 1 Core, 6GB Memory, 50GB Storage
 - (ii) Physical server (per server): 40 Cores, 256GB Memory, 2TB Storage
 - (iii) GPU server (per server): 40 Cores, 256GB Memory, 2TB Storage, 2 GPUs (Tesla V100)

Appended Table 3 (Re: Article 11)

Course	Category	Description	Charge (JPY)
Private Sector	Basic service	All persons who applied for using the Large-Scale Computer System (for each application)	12,960 per year
	Additional service	Supercomputer system	Select the relevant usage of batch processing from among the following (limited to the use within a fiscal year) 1. Data processing by using shared nodes (1) Subsystem A Operation Time up to 3,000,000 sec. 48,000 Operation Time up to 15,000,000 sec. 162,000 Operation Time up to 100,000,000 sec. 810,000 Operation Time up to 250,000,000 sec. 1,620,000 (2) Subsystem B Operation Time up to 3,000,000 sec. 39,000 Operation Time up to 15,000,000 sec. 132,000 Operation Time up to 100,000,000 sec. 660,000 Operation Time up to 250,000,000 sec. 1,320,000 2. Data processing by using fixed-rate exclusive nodes and the use of supercomputer storage (1) Subsystem A 186,000 For each node (including 3TB work area) (2) Subsystem B 156,000 For each node (including 3TB work area) 3. The use of supercomputer storage (1) home area (per 1TB) 40,000 (2) work area (per 3TB) 60,000
Cloud system		Select the relevant cloud system from among the following (limited to the use within a fiscal year) 1. Cloud server (1) Virtual server (per unit) 1,400 per month (minimum use of two units required) 16,800 per year (2) Physical server (per server) 28,000 per month 336,000 per year	

		(3) GPU server (per server)	40,000 per month 480,000 per year
		(4) Additional storage (per 1TB)	1,000 per month 12,000 per year
		2. Cloud storage (per 1TB)	1,000 per month 12,000 per year

Remarks

- (1) Out of the services available for the Large-Scale Computer System, persons who apply for the private sectors course may use: supercomputer; supercomputer storage; cloud server (virtual server, physical server and GPU server); and cloud storage.
- (2) The basic service includes the following:
 - (i) Supercomputer service
 - (a) The use of shared nodes for trial and debugging
 - (b) Home area (supercomputer storage)
 - (ii) Cloud service
 - Cloud storage
- (3) In the service of using shared nodes, the operation time shall be calculated as the product of the number of used nodes and the elapsed time (in seconds). (4) Fixed-rate exclusive nodes shall be available from the date of approval to the end of the fiscal year, and the user charge shall be as set forth below in accordance with the date of approval.
 - (i) When the approval date falls between April and June: 100% of the user charge specified in the table
 - (ii) When the approval date falls between July and September: 75% of the user charge specified in the table
 - (iii) When the approval date falls between October and December: 50% of the user charge specified in the table
 - (iv) When the approval date falls between January and March: 25% of the user charge specified in the table
- (5) A research group may jointly use the Additional Service. In this case, members of the research group shall be appointed from among the Users by the applicant of the Additional Service.
- (6) Configurations of the server services available under the cloud server shall be as set forth in the following.
 - (i) Virtual server (per unit): 1 Core, 6GB Memory, 50GB Storage
 - (ii) Physical server (per server): 40 Cores, 256GB Memory, 2TB Storage
 - (iii) GPU server (per server): 40 Cores, 256GB Memory, 2TB Storage, 2 GPUs (Tesla V100)