⑵　提出先　〒277―8581　千葉県柏市柏の葉５－１－５　東京大学柏地区共通事務センター契約係　山本　未希　電話04―7136―3211

3　説明書の交付　本公表に基づき応募する供給者に対して導入説明書を交付する。

⑴　交付期間　平成28年６月21日から平成28年８月５日まで。

⑵　交付場所　上記２⑵に同じ。

4　説明会の開催　本公表に基づく導入説明会を開催する。

⑴　開催日時　平成28年６月30日15時00分

⑵　開催場所　東京大学物性研究所６階第１会議室

5　その他　この導入計画の詳細は導入説明書による。なお、本公表内容は予定であり、変更することがあり得る。

6　Summary

⑴　Classification of the products to be procured : 14

⑵　Nature and quantity of the products to be rent : ISSP Advanced-Use Supercomputer System 1 set

⑶　Type of the procurement : Rent

⑷　Basic requirements of the procurement :

A　The system to be procured includes compute nodes that comprise a distributed-memory parallel computer, a large-scale shared file system, and a large-scale backup file system, as well as network hardware／software that connect these parts and a login node for users to interact with the system.

B　The compute nodes must satisfy the following hardware requirements :

a　The total theoretical performance (double-precision floating point arithmetic) must be 1.0 PFLOPS or higher. Actual performance will be measured through benchmarks.

b　The compute nodes must be comprised of general-purpose CPUs with high power efficiency. Accelerators other than general-purpose CPUs are not to be included.

c　The capability of the network between compute nodes as well as the network topology of the entire system must be sufficient for delivering good actual performance for computations utilizing the entire system.

d　It should be possible to uniformly access from all compute nodes with high speed the shared file system described below.

e　Most of the heat generated in compute nodes must be cooled by a water cooling system.

C　The system to be procured must provide the following software environment :

a　Processing systems for Fortran90, C, and C++ programming languages capable of handling the OpenMP API must be provided. It is preferable to provide automatic intra-node parallelization capabilities.

b　An MPI 2.0 communication library (MPI 2.1 is preferable) must be provided.

c　Highly-parallelized and optimized numerical libraries, as well as programming environments that include tools for performance tuning must be provided.

d　A UNIX-like operating system, preferably Linux, must be provided. The software stack should be compatible with the software stack of the system in current use so that it will be possible to migrate smoothly to the new system.

e　A job queueing system suitable for nation-wide joint use must be provided.

D　The large-scale shared file system must have total useable storage capacity of over 500 TB or more. The system should be operated by an open source, fast, and reliable parallel file system.

E　The large-scale backup system should have sufficient speed and storage capacity to provide several generations of backup of users'／home data. We will not specify the method at this point.

F　A login node must be provided where many users will log in to at the same time to submit jobs and perform file manipulation.

G　Smooth migration of the data and specific features that have been constructed in the existing system must be provided. Support for installation, migration, maintenance, and modification of the system configuration must be provided. Assistance must be provided for investigation of software／hardware failures in the system as well as statistics of system utilization. User support such as training sessions and consultation for programming must be provided.

H　The system must use the existing water cooling system.

I　The hardware and software must be reliable so as to make possible stable and continuous operation of the system 24 hours a day, 365 days a year.

J　A support framework must be in place for prompt hardware replacements in case of hardware failure, as well as updates to the software stack that include fixes to problems found on the operating system, compilers, libraries, etc.

K　The footprint, weight and other properties of the system must be calculated carefully so as not to exceed the capacity of the center.

L　Overall maximum power consumption must be 300kVA or less. The actual usage of 200kVA or less is desirable during operation. The power capacity, air flow, and system assembly must be carefully designed so that the system is kept cool even if CPU, memory, and disks are fully and continuously operated.

M　The system is to be connected to the external network through a firewall device.

⑸　Time limit for the submission of the requested material : 17 : 00　5 August, 2016

⑹　Contact point for the notice : Miki Yamamoto, Contract Team, Kashiwa General Administration Office, the University of Tokyo, 5―1―5 Kashiwanoha Kashiwashi, Chiba-ken 277―8581 Japan, TEL 04―7136―3211

資料提供招請に関する公表

次のとおり物品の導入を予定していますので、当該導入に関して資料等の提供を招請します。

平成 28 年 6 月 21 日

国立大学法人広島大学　分任契約担当職
霞地区運営支援部長　下田　修二

◎調達機関番号　415　◎所在地番号　34

○第１号

1　調達内容

⑴　品目分類番号　22、31

⑵　導入計画物品及び数量　磁気共鳴断層撮影システム　一式

⑶　調達方法　購入等

⑷　導入予定時期　平成29年度４月以降

⑸　調達に必要とされる基本的な要求要件

A　磁気共鳴断層撮影システムは、静磁場強度3.0テスラを有する装置であること。

B　磁気共鳴断層撮影システムは、高画質な局所画像診断と機能定量性に優れた検査が可能であること。

C　磁気共鳴断層撮影システムは、既設の放射線情報システムよりＤＩＣＯＭ3.0通信規格に準拠した患者及び検査情報を取得できること。

D　磁気共鳴断層撮影システムで取得した画像は、既存の画像保存システム（ＰＡＣＳ）にＤＩＣＯＭ3.0通信規格に準拠したデータとして保存でき、既存の端末で参照可能なこと。

2　資料及びコメントの提供方法　上記１⑵の物品に関する一般的な参考資料及び同⑸の要求要件等に関するコメント並びに提供可能なライブラリーに関する資料等の提供を招請する。

⑴　資料等の提供期限　平成28年８月８日17時00分（郵送の場合は必着のこと。）