d　The subsystem must be connected to the login server node with a speed equal to 10 Gbps or more.
e　Run-time power management system must be provided. Moreover, appropriate job-scheduling by learning power consumption for each job may be desirably provided. Furthermore, limit value of power used by the subsystem may be desirably changed by 12 hours.
f　Fortran, C, and C＋＋ compilers, Python, R, and Ruby interpreters, and Java development and runtime environment must be provided. Moreover, Fortran, C, and C＋＋ compilers equipped with automatic parallelization and OpenMP 4.0 API must be also provided.
g　MPI-3.0 standard-compliant message passing library for Fortran, C, C＋＋, and Python must be provided.
h　By virtualization of physical hardware like CPU and main memory, appropriate functionality of computing resources to users' request must be allocated.

K　Type II subsystem
a　Type II subsystem must consist of multiple nodes. Theoretical peak performance of each node must not be less than 33.5 TFLOPS and the capacity of main memory on each node must not be less than 384 GiB.
b　Total throughput of data transfer from one node to another within a server must not be less than 200 Gbps.
c　In addition to the main memory of DRAM chips, storage class memory (SCM) may be desirably incorporated.
d　The subsystem must be connected to the login server node with a speed equal to 10 Gbps or more.
e　Run-time power management system must be provided. Moreover, appropriate job-scheduling by learning power consumption for each job may be desirably provided. Furthermore, limit value of power used by the subsystem may be desirably changed by 12 hours.
f　Fortran, C, and C＋＋ compilers, Python, R, and Ruby interpreters, and Java development and runtime environment must be provided. Moreover, Fortran, C, and C＋＋ compilers equipped with automatic parallelization and OpenMP 4.0 API must be also provided.
g　Parallel computing platform and application development on GPU must be provided.
h　MPI-3.0 standard-compliant message passing library for Fortran, C, C＋＋, and Python must be provided.
i　By virtualization of physical hardware like CPU, main memory, GPU, GPU memory, appropriate functionality of computing resources to users' request must be allocated.

L　Type III subsystem
a　Type III subsystem must consist of one node or more and the capacity of the main memory on each node must not be less than 6 TiB. The total capacity of the main memory of the subsystem must not be less than 48 TiB.
b　The subsystem must be connected to the login server node with a speed equal to 10 Gbps or more.
c　Fortran, C, and C＋＋ compilers, Python, R, and Ruby interpreters, and Java development and runtime environment must be provided. Moreover, Fortran, C, and C＋＋ compilers equipped with automatic parallelization and OpenMP 4.0 API must be also provided.
d　MPI-3.0 standard-compliant message passing library for Fortran, C, C＋＋, and Python must be provided.
e　By virtualization of physical hardware like CPU and main memory, appropriate functionality of computing resources to user's request must be allocated.

M　Storage subsystem
a　Storage subsystem must provide file services for Type I, II, and III subsystems, and total capacity for storage must not be less than 60 PB. In detail, the total capacity of the hard disk must not be less than 30 PB, and the total capacity of the cold storage consisting of the magnetic tape, etc. must not be less than 30 PB.
b　The type of the hard device of the cold storage must include the optical disc and the total capacity of the optical disc must not be less than 1 PB.

(5)　Time limit for the submission of the requested material: 17:00 12 February, 2019
(6)　Contact point for the notice: Tsuzuki Tatsuko, Contract Division, Financial Affairs Department, Nagoya University, Furo-cho Chikusa-ku Nagoya-shi 464—8601 Japan, TEL 052—789—5527

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30年12月26日
国立大学法人鳥取大学長　豊島　良太
◎調達機関番号　415　◎所在地番号　31

○第８号

1　調達内容
(1)　品目分類番号　14
(2)　導入計画物品及び数量　総合メディア基盤センター電子計算機システム等　一式
(3)　調達方法　借入
(4)　導入予定時期　平成31年度１月以降
(5)　調達に必要とされる基本的な要求要件
A　本システムは、本学のサーバ、教育用端末、教育・研究を支援するソフトウェア及びハードウェアなどから構成される。なお、サーバ等を設置するデータセンターの利用を含む。
B　高速ネットワークに対応し、セキュリティに十分な配慮を払ったシステムであること。
C　全てのシステムは、省スペース、省エネルギー化を図り、できるだけ管理作業の自動化が図られていること。また、利用者側の利便性にも注意を払い、煩雑な操作とならないよう設計されていること。
D　システムの障害を防止するための十分な保守体制、障害発生時の迅速な対処及びシステム運用についてのサポート体制が提供できること。

2　資料及びコメントの提供方法　上記１(2)の物品に関する一般的な参考資料及び同(5)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。
(1)　資料等の提供期限　平成31年１月28日17時00分（郵送の場合は必着のこと。）
(2)　提供先　〒680—8550 鳥取市湖山町南４—101　鳥取大学財務部契約課役務係　富山　道仁　電話0857—31—6783

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。
(1)　交付期間　平成30年12月26日から平成31年１月28日まで。
(2)　交付場所　上記２(2)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。
(1)　開催日時　平成31年１月11日11時00分
(2)　開催場所　鳥取大学事務局第一会議室

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
(1)　Classification of the products to be procured: 14
(2)　Nature and quantity of the products to be rent: Computer System and others for Information Media Center 1 Set
(3)　Type of the procurement: Rent
(4)　Basic requirements of the procurement:
A　The system consists of network systems, servers, educational clients, application software and other components. Including the cost of the data center which is used to house the computer systems.
B　The system should work in high-speed network environment and should have high level security.