O　設置性　既存の建屋・設備への負担（増設、改築、改修）を最小限にすること。また、システムの自動立上げ・縮退などを含む自動運転機能を有すること。さらに、ＪＡＸＡが保有する空調設備と連携可能なインターフェースを有し、システムと連動した空調設備の自動運転を実現すること。

P　ユーザサポート　スーパーコンピュータシステムとしてのプログラム相談、チューニング支援等のユーザサポート体制があること。

Q　アクセス性　遠隔部からのアクセスも含めて解析活動を安全かつ高速に実行できること。

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⑹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等に関する資料等の提供を招請する。

⑴　資料等の提出期限　平成24年11月５日（月）17時00分（郵送の場合は必着のこと）

⑵　提出先　〒182―8522 東京都調布市深大寺東町７―44―１　宇宙航空研究開発機構　契約部調布契約課　若松　武史　電話050―3362―5908　メールアドレス wakamatsu.takefumi@jaxa.jp

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24年９月26日から平成24年11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24年10月11日（木）14時00分

⑵　開催場所　東京都調布市深大寺東町７―44―１　宇宙航空研究開発機構　調布航空宇宙センター　事務棟１号館２階　講堂

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, 71, 27

⑵　Nature and quality of the products to be procured : Supercomputer System 1 Set

⑶　Type of the procurement : Rent

⑷　Basic requirements of the procurement : The target supercomputer system should consist of compute part, file system part, archival system part, remote part, manage and control part, and related hardware and software.

A　Compute performance : The compute part should provide the peak compute performance about 1 - 6 PFLOPS without accelerator such as GPGPU. And the compute part should have performance and function to execute fast for JAXA's numerical programs. The interconnect should be constructed for high performance computing. It should be satisfied by performance that some benchmark programs preparing by JAXA.

B　Main memory : Total amount of main memory should be about 600 TB.

C　Function of compute part : The compute part should also provide the functions to do program development, compiling, tuning, and the performance to execute batch jobs, interactive jobs, the jobs in which about 1TB shared memory is required, grid generation, and visualization.

D　File system part : The file system part should consist of disk storage with about 10 PB physical capacity.

E　Archival system part : Archival system part should consist of tape library with about 100 PB physical capacity (uncompressed), and disk cache corresponding to this. And files which are in the present archival system should be migrated to this as easy and quickly as possible.

F　Function of remote part : The target supercomputer system should provide the remote part, which has excellent portability and usability, and seamless file manipulation.

G　Operating system : The target supercomputer system should be operated under the UNIX／Linux-based operating system which realizes the integrated user environment with workstations and personal computers under high-speed network.

H　Programming Language : The target supercomputer system should provide FORTRAN and C compilers, parallel communication libraries such as MPI, and mathematical libraries. The system should provide a supporting environment for programming.

I　Flexibility of system configuration and operation : The system configuration should realize that large-scale and parameter study jobs are performed efficiently. The function and mechanism which supports center operation should be offered. Operation manegement should be done as a one system.

J　Reliability : The target supercomputer system should be highly reliable from both the hardware and software viewpoints. Quick response is required when unexpected failure occurs.

K　Translatability : The accumulated program／data resources should be rapidly and easily inherited without the performance reduction.

L　Security : The target supercomputer system should provide high level security function.

M　Job management : On variety of jobs (big／small／many／few job (s), priority job, computing resource lease, etc.), flexible job scheduling should be provided. Variety of information which is useful for operation and use should be acquired.

N　Electric power reduction : Total amount of power consumption including cooling power should be reduced for 2nd electric power reduction planning (FY2015 - FY2019) of Tokyo metropolitan government (demands －17% provisionally now). Electric power usage should be managed. The existing power equipment can be used.

O　Installation : The target supercomputer system should make the burden (extension, reconstruction, repair) on existing building and equipment into the minimum, have an automatic operation function including automatic starting, degeneration, etc. And it also should has an interface which can control air conditioner system.

P　User support : User support as a supercomputer system should be provided.

Q　Access : Including from remote part, safe and fast analysis activities should be realized.

⑸　Time limit for the submission of the requested material : 5 : 00 PM, 5, November, 2012

⑹　Contact point for the notice : Takefumi Wakamatsu, Chofu Contract Division, Contract Department, Japan Aerospace Exploration Agency, 7―44―1, Jindaiji Higashimachi, Chofu-shi, Tokyo 182―8522, Japan, TEL 050―3362―5908
E-mail wakamatsu.takefumi@jaxa.jp

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 24 年９月 26 日

国立大学法人東北大学理事　佃　　良彦

◎調達機関番号　415　◎所在地番号　04

○第４号

1　調達内容

⑴　品目分類番号　15

⑵　導入計画物品及び数量
ネットワーク基幹システム　一式

⑶　調達方法　購入等

⑷　導入予定時期　平成25年度４月以降

⑸　調達に必要とされる基本的な要求要件

①　星陵キャンパスの各建屋のネットワークと高速かつ安定的に接続すること。

②　外部ネットワークと高速かつ安定的に接続すること。

③　星陵キャンパス内の各建屋のネットワークに仮想的なネットワーク環境を提供し、これらを柔軟に運用管理できる環境を実現すること。