XC50 System XC-S Application form

This is the application form for XC-S category of XC50 system. In order to apply for other categories, please download and fill in the other application form "xc50_app_en.***". You may erase sentences except for the section titles if you need more space to describe your plans.

1 Significance and purpose of you research

Describe the significance and purpose of your research plan in detail. Clarify the background of the research, the scientific goal, and the originality of your approach. (Do not exceed 1 page.)

2 Research plan

Describe your research plan and numerical methods and clarify results you expect until the next March. If you adopt a somewhat unique method, you may emphasize that in this section. (Do not exceed 1 page.)

3 Status and requirement for numerical code

(This section, including §3.1 and 3.2, does not exceed 1 page)

3.1 Status of the development and optimization of numerical code

Describe the current status of the development and optimization of your numerical code. If you are a former user of computers at CfCA, you need to clarify that the numerical code is expected to run efficiently on this system by showing the scalability of the code.

You need to show the scalability at least up to 1000 cores.

3.2 Required computational resources

Describe the expectation for computational resources (number of nodes and CPU cores, memory requirement, computational time for a single run, the total computational time, and so on) for your calculations.

(Do not exceed 1 page)

4 Results of earlier works related to your research

If you are a former user of computers at CfCA for the past three years, complete the following table. You can only refer publications related to works achieved by using CfCA computers. You may note details of the achievement in the following blank("Note"). (This section, including the reference list, does not exceed 1 page)

An example of 2015

Year	Category	Publications
2012 1st half		
2012 2nd half	XT4B, SX9B	[2,3]
2013 1st half	XC-B	[3]
2013 2nd half	XC-A	[3]
2014 1st half	XC-A	[]
2014 2nd half	XC-A, XC-S	[]

2014 1st half is April 2014 - September 2014.
2014 2ndt half is October 2014 - March 2015.
Please write the past category and the related reference from 2012 2nd half to 2015 1st half for the application in August.

Note

5 Schedule for execution

The application to XC-S category is supposed to be made by an individual researcher. However, numerical codes may be huge and you may need some collaborators who support the development of the code. Therefore, application by several researchers is acceptable. In such case, write down the name of the collaborators and their institutes. The collaborators need to make their accounts on XC50 sys- tem until the day assigned to your ex-s execution. If they do not need to use XC-A, XC-B, and XC-MD queues, please apply to XC-Trial category. Application to XC-Trial category is welcome anytime. Also, please let us know when you are convenient to execute ex-s jobs. In the case of application for the first half year, write down convenient month from April to September or anytime. In the case of application for the first half year, write down convenient month from October to March, or anytime. For details, we will contact you after the acceptance.

6 Reference

Describe references in section 1-4.

[1] An example reference list. Clarify if the paper is refereed or unrefereed.

[2] Suzuki, A., & Shigeyama, T. 2013, ApJL, 764, L12   (SX9B,   refereed)

(Do not exceed 1 page)

[3] Takiwaki, T., Kotake, K. & Suwa, Y. 2013, ApJ, 786 83 (XT4B,XC-B, XC-A, refereed)