そ﷽﷽﷽﷽﷽﷽﷽﷽﷽﷽﷽﷽﷽﷽﷽ト（別紙）を添付してください。 **Center for Computational Sciences, University of Tsukuba**

**2020 Multidisciplinary Cooperative Research Project (MCRP-L)**

Date(YYYY/MM/DD):　 / /

(Please carefully read “Call for proposals 2020”.)

1. **Project name and representative**

|  |
| --- |
| **Representative (Surname, Given names):**  **Affiliation:** |
| **Project name(English):**  **課題名(日本語)：(if available)** |

(You can enlarge the following spaces, up to the maximum 6 pages in total.)

1. **Scientific significance**

|  |
| --- |
| **2.1 Scientific background**  **2.2 Purpose of the Project**  **2.3 Expected achievements** |

1. **Past Research, Ongoing project, Project plan, and Requested resources**

|  |
| --- |
| **Research Achievements in the past**  Provide the (hyper)link to your report for 2018 MCRP here, if you have.  https://project.ccs.tsukuba.ac.jp/event/9/papers/\*\*/files/\*\*\*.pdf  -------------------------- |
| **Ongoing MCRP**  Do you currently have ongoing projects of MCRP in 2019? [Yes / No]  If Yes, fill in the following:   |  |  |  | | --- | --- | --- | | Name of Computer | OFP | Cygnus | | Project code | xg\*\*\*\*\*\* | \*\*\*\*\*\*\*\* | | Initially approved resources (node×hour) |  |  | | Used resources so far (node×hour) |  |  |   If No, provide your desired project code name for Cygnus (within 8 letters):  Describe its relation to the present proposal (2020): |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Target and Plan for 2020.4 – 2021.3**   |  |  |  | | --- | --- | --- | | Requested resources | OFP | Cygnus | | node×hour |  |  | | Maximum # of nodes |  |  | | Disk capacity | 20 TB | 15 TB |   **Utilization Plan for 2020.4 – 2021.3** |

**３. Preparation and Reason for Requested Resources**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Preparation Status** (Program development, Test operation, etc .)  Provide the following information for each program.   |  |  |  |  | | --- | --- | --- | --- | | Program name |  | | | | Parallelization method | [ MPI / OpenMP / MPI+OpenMP / others( ) ] | | | | Parallel efficiency measurement | Scaling | [ Strong / Weak ] | | | Total # of threads () | *m* = | *n* = | | Execution time | *Tm* = sec | *Tn* = sec | | Effective parallelism\*1 | *α* = % | | | Product run | Target # of threads | OFP: N= | Cygnus: N= | | Parallel efficiency\*2 | *EN*= | *EN*= |   (If you use more than one program, copy and repeat this table.) |
| **Necessity and Reason of Requested Resources** |
| **2020 HPCI application** (<http://www.hpci-office.jp/folders/english>)  Have you applied for the 2020 HPCI application as a representative? [ Yes / No ]  If Yes, provide the following:  Name of computer:  Project name (Japanese and/or English): |

Note:

\*1 Effective parallelism (parallelization ratio) is given by, in case of strong scaling,

and in case of weak scaling,

\*2 Parallel efficiency is given by