Application For machine Time –

7th INTEL® Xeon Phi™ coprocEssor Access ProgramME

# Introduction

The Hartree Centre is pleased to announce a seventh programme of access to its Intel® Xeon Phi™ coprocessor cluster.

This is for projects from academia and industry that would like to experiment with their code on this exciting new architecture.

The seventh phase covers the period between Monday 24th October 2016 and Friday 20th January 2017.

**It is a pre-requisite that if you are a member of a project granted access in previous access programmes, the project has provided the feedback requested, i.e., a report detailing the work undertaken, particularly the science and engineering content and the impact of the project.**

This programme provides free usage of the computing resources but does not provide support or any development effort.

# Hardware

Of the 84 nodes in the Blue Wonder iDataPlex:

* **42 of these nodes have Intel® Xeon Phi™ coprocessor (5110P) accelerators;**
* Each Intel® Xeon Phi™ coprocessor has 60 cores and can be used in native and off-load mode.

# How to Obtain Access

Step 1: Fill in as many of the empty spaces below with information – if you don’t know or it’s vague say so. Expand the tables as required.

Step 2: Send it to the Hartree Helpdesk ([hartree@stfc.ac.uk](mailto:hartree@stfc.ac.uk)) marked “7th Intel® Xeon Phi™ Access Programme”

**Deadline for applications is Friday 14th October 2016.**

If you have any questions please send these to the Hartree Helpdesk.

Your application will be assessed and you will be notified of the outcome by Friday 21st October.

# Terms & Conditions

Users should note:

* There is no guarantee of the availability or stability of the systems;
* The systems may be taken out of service or become unavailable with minimal warning (for benchmarking, development or commercial work);
* STFC does not commit to provide any level of support to users;
* Users will have to sign up to STFC standard terms and conditions;
* Our licences are for academic use only, so no commercial work can be undertaken.

**In addition:**

1. **Upon completion of the project you agree to provide a report detailing the work undertaken, particularly the science and engineering content and the potential scientific, social or economic impact of the project;**
2. **Any advances you make will be made available to other developers via the appropriate code repository;**
3. **Any publications that result from this work will acknowledge the contribution of the Hartree Centre. You will inform the Hartree Centre of such publications and activities in advance.**

You also agree that STFC and the Hartree Centre can use the information you provide as a basis for promotional materials including case studies.

# Basic Project Information

|  |  |
| --- | --- |
| Project Title |  |
| Project Acronym |  |
| Summary of project scope and aims |  |
| PI Name |  |
| PI Nationality |  |
| Address |  |
| e-mail |  |
| Telephone |  |

# Previous Use

|  |  |
| --- | --- |
| Were you a member of a project granted access in a previous programme? |  |
| If ***yes*** above please answer the following questions: | |
| Previous project reference number or title |  |
| Did the project submit a report detailing the work undertaken, particularly the science and engineering content and its impact? |  |

# Resources Requested

|  |  |
| --- | --- |
| For information on minimum job sizes, queues etc. see  <http://community.hartree.stfc.ac.uk/wiki/site/admin/jobs.html> | |
| iDataPlex with Intel® Xeon Phi™ coprocessor node hours |  |
| Persistent Storage (TB) |  |
| Number of users expected |  |
| Is interactive access required? |  |

# Detailed Project Description

|  |  |
| --- | --- |
| Summary |  |
| Expected scientific outcome |  |
| Proposed mechanisms for development of follow-on projects |  |
| How do you plan to disseminate your results, including code developments? |  |
| Potential economic or societal impact of the project |  |

# Software Requirements

|  |  |
| --- | --- |
| What software are you expecting to use? (Include details of compilers, libraries, packages, debuggers and other tools). |  |
| Are there any licence requirements or additional costs for any of the above software? If yes, please detail costs and terms of licence agreements.  **NOTE: You will be required to cover such costs.** |  |

# More Information

More information about Hartree systems can be found here:

<http://community.hartree.stfc.ac.uk/wiki/site/admin/home.html>