CALL FOR PARTICIPATION
International MPI Survey

As part of a wide-ranging effort to understand the current usage of the Message Passing Interface (MPI) in the development of parallel applications and to drive future additions to the MPI standard, an international team is seeking feedback from the largest possible MPI audience (past, current, and potential users on the globe) to obtain a better understanding of their needs and to understand the impact of different MPI capabilities on the development of distributed applications.

To obtain representative samples of the MPI community, we have prepared a survey that specifically targets all potential MPI users, including those in the public, education, research and engineering domains – from undergraduate and graduate students and postdocs to seasoned researchers and engineers.

For anyone interested in participating in the survey, we sincerely appreciate your feedback. The survey is rather short (about 30 easy questions) and should not take more than 15 minutes to complete.

Questions? Please send any queries about this MPI survey to ahori@riken.jp

Thank you on behalf of the International MPI Survey,

George Bosilca
UT/ICL

Emmanuel Jeannot
Inria

Atsushi Hori
RIKEN

Takahiro Ogura
RIKEN

The information gathered will be used to publish a comprehensive report of the different use cases and potential areas of opportunity. These results will be made freely available, and the raw data, the scripts to manipulate it, as well as the resulting analysis will be, in time, posted on github [1], while the curated results will be available via github pages [2].

[1] https://github.com/bosilca/MPIsurvey/
[2] https://bosilca.github.io/MPIsurvey/

Take the Survey

The survey is available in 2 formats.
DO NOT ANSWER BOTH FORMS

Google Forms
https://docs.google.com/forms/d/e/1FAIpQLSd1bDpp
VODc8nBOBjlXdqSCO_MuEuNAAbBixl4onTchwSQFwg
/viewform

Microsoft Forms
https://forms.office.com/Pages/ResponsePage.aspx?i
d=DQSIkWdsW0yxEjajBLZtrQAAAAAAAAAAANAAf_c
H7pUNE5ONzI0S1paSEs2WkYyVU9TTFNHOVJSVy4u

The Current Status

This questionnaire survey was started from 17th of February by an announcement sent to major HPC-related maling lists. Since then, there have been over 800 responses from more than 40 countries. The graph to the right shows the time series of the number of responses by major countries (having more than 50 responses).
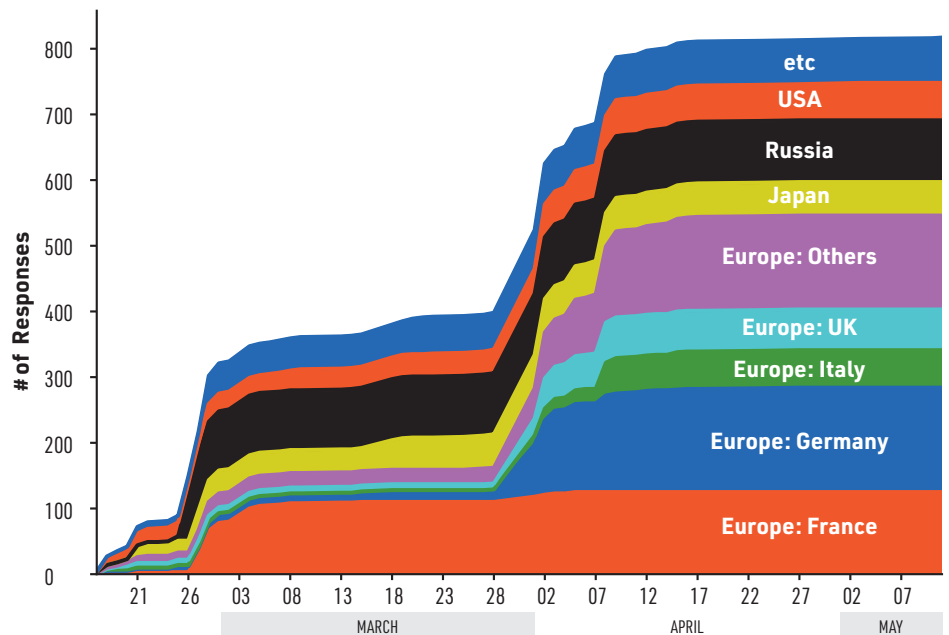

Table 1 shows the top 10 countries in this survey and Table 2 shows the top 10 countries in Top500 system share (as of November 2018). Comparing those tables, there is a large discrepancy which may lead us to biased results. To narrow the discrepancy, the survey will be kept open to accept responses until we get enough responses from the countries as shown in Table 2.

TABLE 1. **TOP 10 COUNTRIES**

RANK	COUNTRY	RESPONSES
1	Germany	159
2	France	125
3	Russia	94
4	UK	62
5	USA	57
6	Italy	57
7	Japan	51
8	Switzerland	40
9	Korea, South	27
10	Austria	26

41 COUNTIRES, 817 RESPONSES

TABLE 2. **TOP COUNTRIES IN TOP500 SYSTEM SHARE**

RANK	COUNTRY	%
1	China	45.4
2	USA	21.8
3	Japan	6.2
4	UK	4.0
5	France	3.6
6	Germany	3.4
7	Ireland	2.4
8	Canada	1.8
9	Italy	1.2
10	Korea, South	1.2

AS OF NOVEMBER 2018

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https://docs.google.com/forms/d/e/1FAIpQLSd1bDpp VODc8nBOBjlXdqSCO_MuEuNAAbBixl4onTchwSQFwg /viewform

Microsoft Forms
https://forms.office.com/Pages/ResponsePage.aspx?i d=DQSIkWdsW0yxEjajBLZtrQAAAAAAAAAAANAAf_c H7pUNE5ONzI0S1paSEs2WkYyVU9TTFNHOVJSVy4u