Accepted Manuscript

Optical packet switching in HPC. An analysis of applications performance

Hugo Meyer, Jose Carlos Sancho, Milica Mrdakovic, Wang Miao, Nicola Calabretta

PII:	S0167-739X(17)30300-X
DOI:	http://dx.doi.org/10.1016/j.future.2017.02.041
Reference:	FUTURE 3359
To appear in:	Future Generation Computer Systems
Received date :	29 February 2016
Revised date :	1 February 2017
Accepted date :	24 February 2017



Please cite this article as: H. Meyer, et al., Optical packet switching in HPC. An analysis of applications performance, *Future Generation Computer Systems* (2017), http://dx.doi.org/10.1016/j.future.2017.02.041

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Highlights

- An analysis of Optical Packet Switching (OPS) is presented
- The impact of OPS in HPC applications is analyzed
- An evaluation of the number of simultaneous packets in an system is presented
- A methodology to find the best concurrency-aware mapping is introduced
- Buffer size utilization is lowered up to 4.2 times and execution time up to 2.6 times

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