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***Abstract*—The abstract goes here. DO NOT USE SPECIAL CHARACTERS, SYMBOLS, OR MATH IN YOUR TITLE OR ABSTRACT.**

***Keywords*-component; formatting; style; styling;**

I. Introduction

Achievalbe performance depends on the combination of communication patterns and routing algorithm being used.

Load balancing, routing, application communication patterns.

In this work, we propose a set of approaches that improve network performance for applications in Blue Gene/Q supercomputers.

II. Related work

GOAL paper Several bgq paper

III. Experiment system

IV. Approaches

A. Heuristic approaches

1) Heuristic 1: In this approach, we search for paths to

Centric algorithm, run at every node. Need information in advance.

In the **Algorithm ??**, we start by adding

2) Heuristic 2:

V. Benchmarks

A. Experimental

1) Chunk size for pipeline:
2) Various message sizes:
3) Many ranks:
4) Scaling:

B. Communication patterns

In this paper we demostrate data movement performance of our OPTIQ framework and existing MPI's routines on the following communication patters:

- All to many, many to all
- I/O Aggregation: a special case of All to many (or many to many)
- Many to many: disjoint/exclusive
- Many to many: subset
- Many to many: partially joint (not subset, not disjoint)
- Many to many: sparse

C. All to many or Many to all

VI. Conclusion

Acknowledgment

The authors would like to thank... more thanks here

References

[1] H. Kopka and P. W. Daly, *A Guide to LaTeX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.