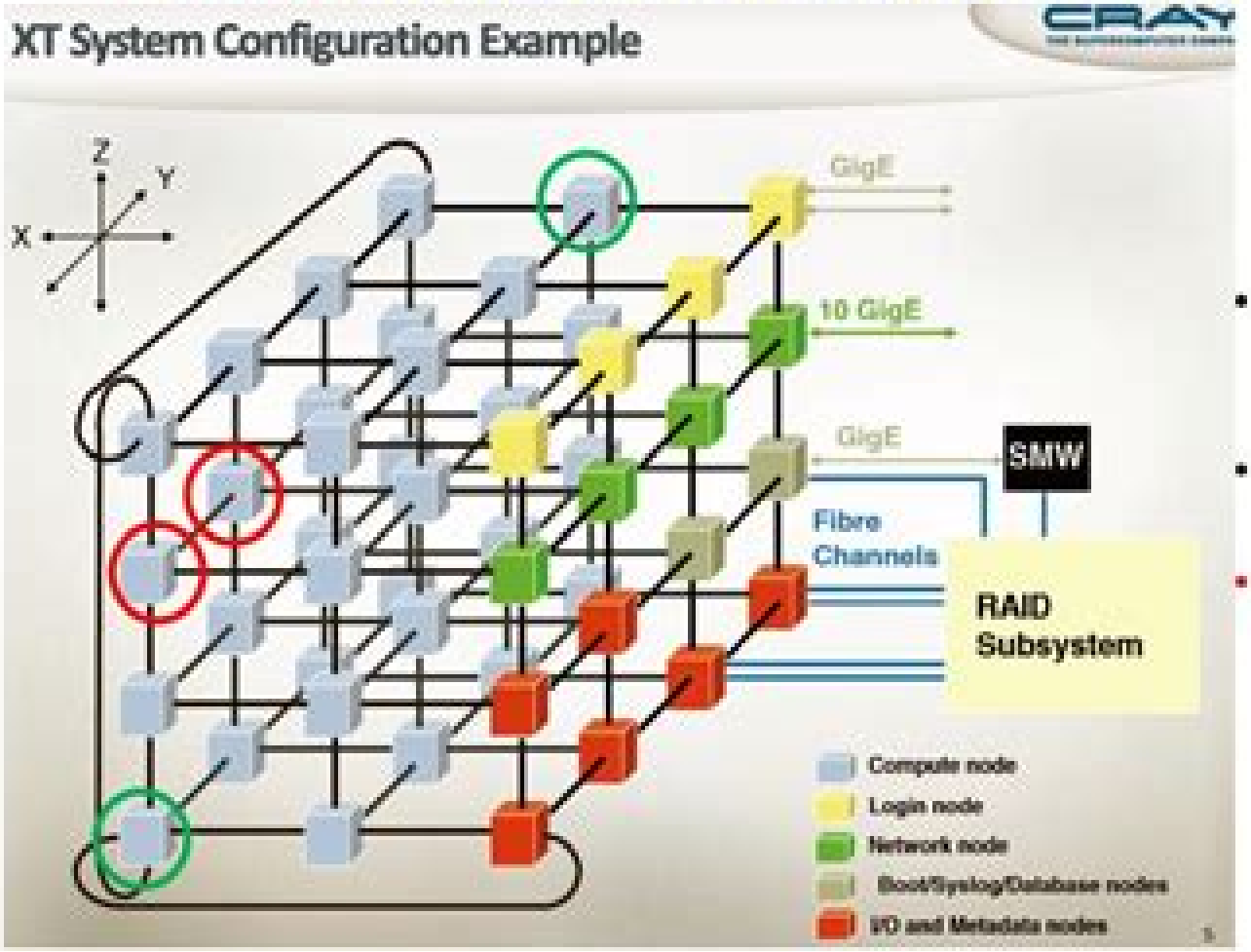
(Hypergraph) Repartition-Based Dynamic Load Balancing: Network Topology

- **Cost Model:** $TotalCost = aB_{comm} + B_{mig}$
- **Problem: Topology-agnostic, leading to sub-optimal repartitioning.**



- T_{comm} *and* T_{mig} *between compute nodes vary based on their locations.*
- T_{comm} *and* T_{mig} *are not proportional to* B_{comm}
- ***Group the most communicating data into compute nodes closed to each other.***

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Future Data and Security Engineering Tran Khanh Dang,Josef Küng,Tai M. Chung,Makoto Takizawa,2021-11-18 This book constitutes the proceedings of the 8th International Conference on Future Data and Security Engineering FDSE 2021 which was supposed to be held in Ho Chi Minh City Vietnam in November 2021 but the conference was held virtually due to the COVID 19 pandemic The 24 full papers presented together with 2 invited keynotes were carefully reviewed and selected from 168 submissions The selected papers are organized into the following topical headings Big Data Analytics and Distributed Systems Advances in Machine Learning for Big Data Analytics Industry 4 0 and Smart City Data Analytics and Security Blockchain and IoT Applications Machine Learning and Artificial Intelligence for Security and Privacy Emerging Data Management Systems and Applications **1998 International Conference on Parallel Architectures and Compilation Techniques, Paris, France, October 12-18, 1998** ,1998 This text on parallel architectures and compilation techniques covers such topics as loop transformations shared memory design techniques specialized multiprocessor systems parallel programming languages JAVA and multithreading processors register allocation and branch and value prediction

Dissertation Abstracts International ,2008 *Proceedings of the Second International Conference on Parallel and Distributed Information Systems* IEEE Computer Society. Technical Committee on Data Engineering,1993 **Chinese Journal of Electronics** ,2008 **The Fourth International Conference/Exhibition on High-Performance Computing in the Asia-Pacific Region, Beijing, China, May 14-17, 2000** ,2000 *High Performance Computing* ,1999

Proceedings ,2002 I-SPAN'02 Derbiau Frank Hsu,Oscar H. Ibarra,Rafael P. Saldaña,2002 This volume originated from the 2002 International Symposium on Parallel Architectures Algorithms and Networks and is concerned with computer engineering It is aimed at researchers professors practitioners and students Open Distributed Systems Jon Crowcroft,1996 The key area of open communications in distributed computing systems is explained in this authoritative text International standards and management strategies are explained in the context of both global and local network

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