

标题

作者 1^{1,2} 作者 2^{1,2} 作者 3³ 作者 4⁴

¹ 机构 1

² 机构 2

³ 机构 3

⁴ 机构 4

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内容提要

1. 注释说明 1

技术路线

技术路线

实验

实验内容

content

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└ 实验

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实验内容

content

1. dffdfdf

An Hyper Graph Model for SpMV

In Hyper Graph $\mathcal{H} = (\mathcal{V}, \mathcal{N})$

- Vertice v_i represents row i of A .
- Net n_i contains vertices v_j with $a_{ij} \neq 0$ (dependency).
- A k partition of graph represents assignment of rows to k processes.

Optimization in two aspects:

- Each row i only receives data from vertices v_j with $v_j \in n_i$ and v_i, v_j in different parts of k partition.(pre-compute to find these vertices dependencies for later iteration use).
- A good k partition could minimize the total data transfer for all the rows