MIMDRAM

INTRODUCTION

* PUM (Processing Using Memory) has 2 advantages over PNM (Processing Near Memory)
  1. PUM completely remove the data movement
  2. PUM exploit the large internal bandwidth parallelism available in memory arrays
* 3 Limitations of state-of-the-art PUD (Processing Using DRAM) technologies
  1. For high SIMD Utilization, Large Data is required, and not all applications have high data required.
  2. DRAM Column communication for vector to scalar conversion
  3. Programmability barrier i-e lack of adequate compilation tools