

Relative

- Peer2Peer-Sync
- Peer2Peer-MPI\_Type
- All2All-Sync
- All2All-MPI\_Type

$128^3$   
 $128^2 \times 256$   
 $128 \times 256^2$   
 $256^3$   
 $256^2 \times 512$   
 $256 \times 512^2$   
 $512^3$   
 $512^2 \times 1024$   
 $512 \times 1024^2$   
 $1024^3$   
 $1024^2 \times 2048$

2.5  
2.0  
1.5  
1.0

- Peer2Peer-Sync
- Peer2Peer-MPI\_Type
- All2All-Sync
- All2All-MPI\_Type

$128^3$   
 $128^2 \times 256$   
 $128 \times 256^2$   
 $256^3$   
 $256^2 \times 512$   
 $256 \times 512^2$   
 $512^3$   
 $512^2 \times 1024$   
 $512 \times 1024^2$   
 $1024^3$   
 $1024^2 \times 2048$