

Broadcast

Scatter

Allreduce  
(Sum)

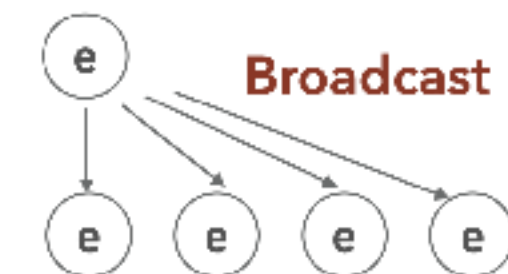
Broadcast

Reduction  
(sum)

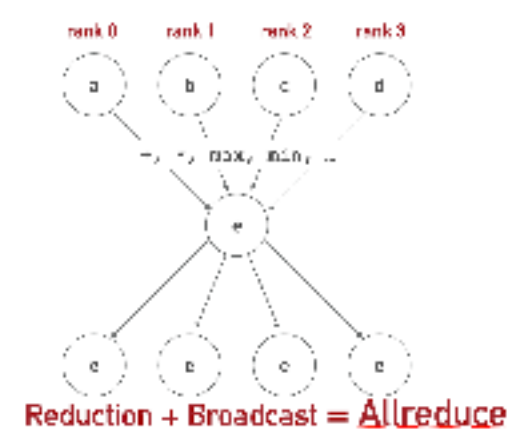
Reduction



Reduction

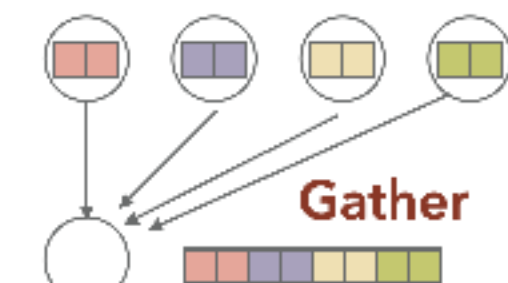


Broadcast

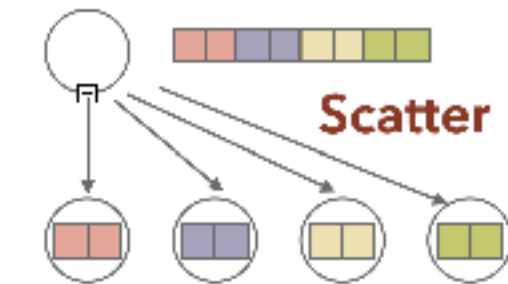


Reduction + Broadcast = Allreduce

Gather



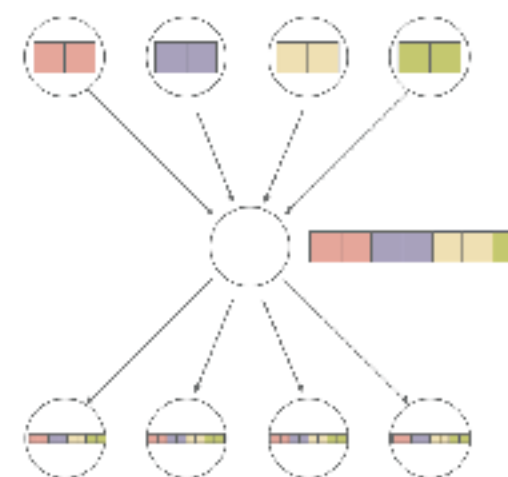
Gather



Scatter

Scatter

Allgather



Gather + Scatter = Allgather

