

- Communication
 - Point-to-point

```
MPI_Send(  
    void* buf,  
    int count,  
    MPI_Datatype,  
    int dest,  
    int tag,  
    MPI_Comm comm  
)
```

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```
MPI_Recv(  
    void* buf,  
    int count,  
    MPI_Datatype,  
    int source,  
    int tag,  
    MPI_Comm comm,  
    MPI_Status *status  
)
```

- Communication
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 - Collectives

```
MPI_Bcast(  
    void* buffer,  
    int count,  
    MPI_Datatype,  
    int root,  
    MPI_Comm comm  
)
```

- Communication
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 - Collectives

```
MPI_Reduce(  
    void* sendbuf,  
    void *recvbuf,  
    int count  
    MPI_Datatype,  
    MPI_Op op,  
    int root,  
    MPI_Comm comm  
)
```

- Communication
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 - Collectives
- Synchronization

- Communication
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 - Test

```
MPI_Test(  
    MPI_Request* request,  
    int *flag,  
    MPI_Status *status  
)
```

- Communication
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 - Collectives
- Synchronization
 - Test
 - Wait

```
MPI_Wait(  
    MPI_Request* request,  
    MPI_Status *status  
)
```

- Communication
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 - Test
 - Wait
 - Barrier

```
MPI_Barrier(  
    MPI_Comm comm  
)
```