

main

MPI\_Alltoall

alltoall\_nonblocking

```
graph LR; main --> MPI_Alltoall; MPI_Alltoall --> alltoall_nonblocking;
```

The diagram illustrates a sequence of three MPI operations in a flowchart. It starts with a box labeled 'main', followed by an arrow pointing to a box labeled 'MPI\_Alltoall', which then points to a final box labeled 'alltoall\_nonblocking'. The 'alltoall\_nonblocking' box is shaded gray, while the others are white.