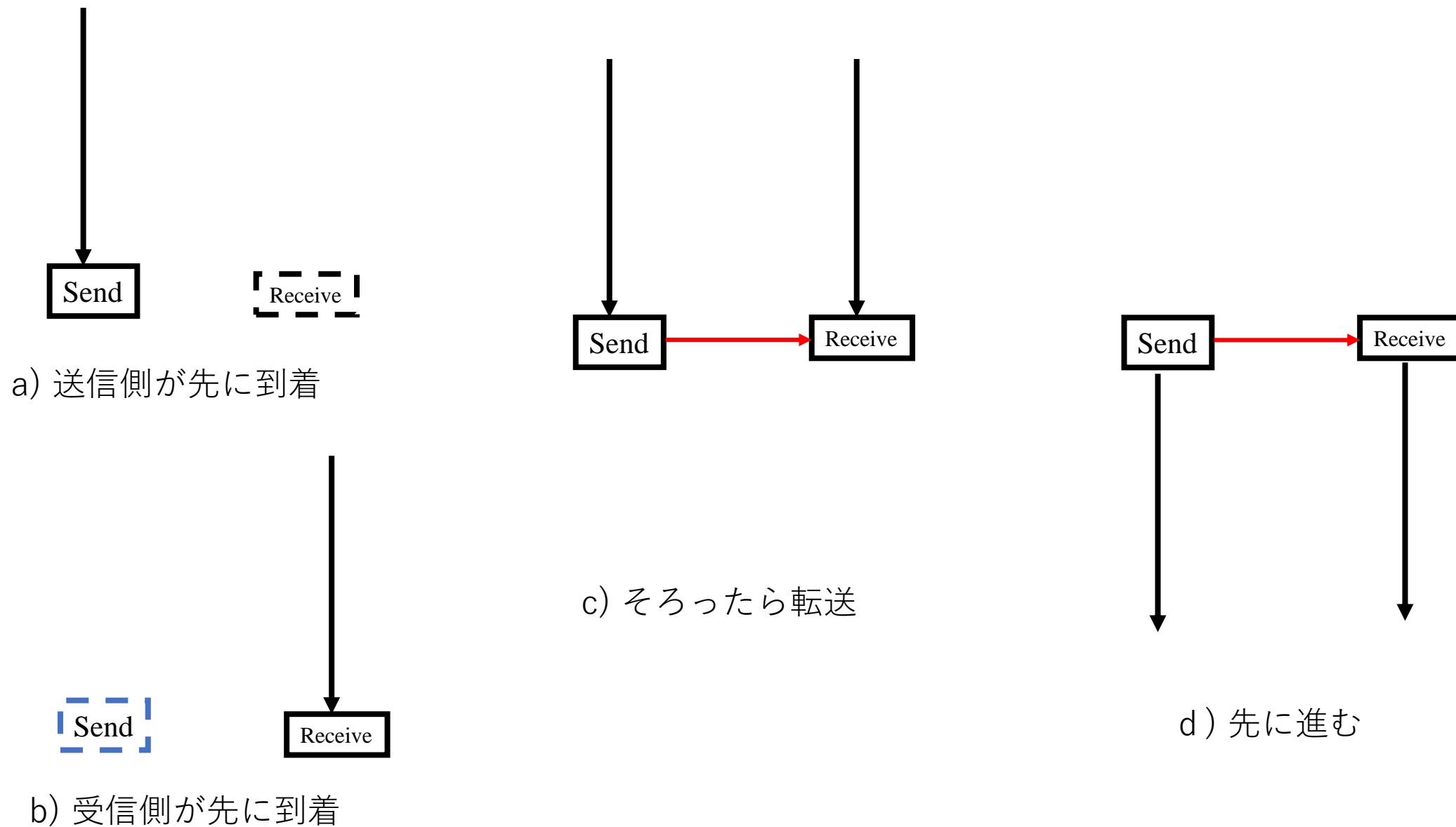


図1 RHiNET-2クラスタ



図2 ブロッキング通信（ランデブ）



例題3

```
#include <stdio.h>
#include <mpi.h>
#define MSIZE 64
int main(int argc, char **argv) {
    char msg[MSIZE];
    int pid, nprocs, i;
    MPI_Status status;
    MPI_Init(&argc, &argv);
    MPI_Comm_rank(MPI_COMM_WORLD, &pid);
    MPI_Comm_size(MPI_COMM_WORLD, &nprocs);
    if (pid == 0) {
        for (i = 1; i < nprocs; i++) {
            MPI_Recv(msg, MSIZE, MPI_CHAR, i, 0, MPI_COMM_WORLD, &status);
            fputs(msg, stdout);
        }
    }
    else {
        sprintf(msg, "Hello, world! (from process #%d)\n", pid);
        MPI_Send(msg, MSIZE, MPI_CHAR, 0, 0, MPI_COMM_WORLD);
    }
    MPI_Finalize();
    return 0;
}
```