N^2 float vector

```
float [] buf = new float [N * N] ;
MPJ.COMM_WORLD.send(buf, 0, N * N,
                    MPJ.FLOAT,
                    dst, tag) ;
```

```
float [] buf = new float [N * N] ;
MPJ.COMM_WORLD.recv(buf, 0, N * N,
                    MPJ.FLOAT,
                    src, tag) ;
```

$N \times N$ float array

```
float [] [] buf = new float [N] [N] ;
MPJ.COMM_WORLD.send(buf, 0, N,
                    MPJ.OBJECT,
                    dst, tag) ;
```

```
float [] [] buf = new float [N] [] ;
MPJ.COMM_WORLD.recv(buf, 0, N,
                    MPJ.OBJECT,
                    src, tag) ;
```

$1 \times N^2$ float array

```
float [] [] buf = new float [1] [N * N] ;
MPJ.COMM_WORLD.send(buf, 0, 1,
                    MPJ.OBJECT,
                    dst, tag) ;
```

```
float [] [] buf = new float [1] [] ;
MPJ.COMM_WORLD.recv(buf, 0, 1,
                    MPJ.OBJECT,
                    src, tag) ;
```