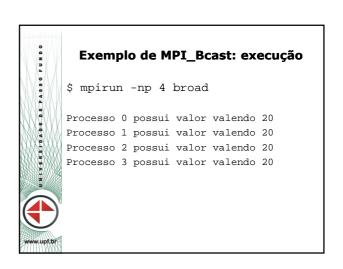
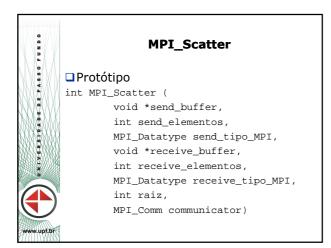


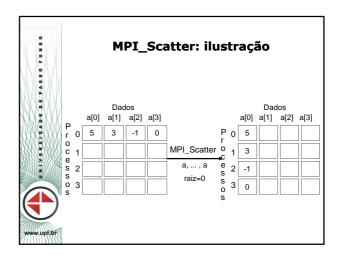
```
Exemplo de MPI_Bcast
VERSIDADE DE PASSO FUNDO
     #include <stdio.h>
     #include <mpi.h>
     int main(int argc, char **argv){
     int valor;
     int meurank;
     MPI_Init(&argc, &argv);
     MPI_Comm_rank(MPI_COMM_WORLD, &meurank);
     if (meurank == 0)
         valor = 20;
     MPI_Bcast(&valor, 1, MPI_INT, 0, MPI_COMM_WORLD);
     printf("Processo %d possui valor valendo %d\n",
             meurank, valor);
     MPI_Finalize();
     return(0);
```

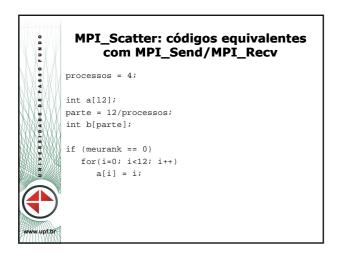


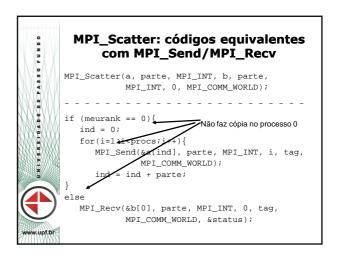


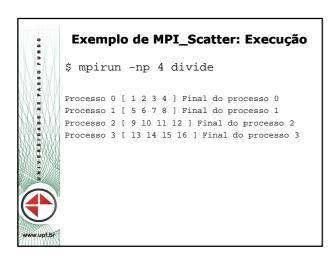






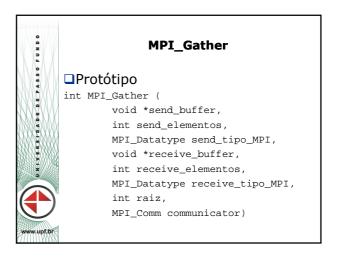


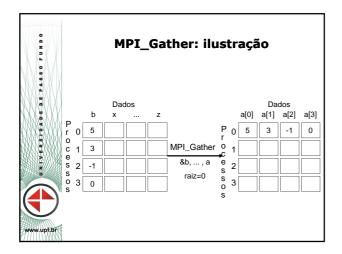


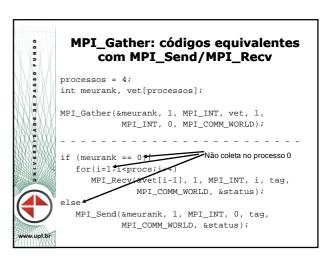












```
Exemplo de MPI_Gather

#include <stdio.h>
#include <mpi.h>

#define TAM 4

int main(int argc, char **argv){
   int vet[TAM];
   int i, meurank;

MPI_Init(&argc, &argv);
   MPI_Comm_rank(MPI_COMM_WORLD, &meurank);

/* continua ... */
```

```
Outro exemplo de MPI_Gather

#include <stdio.h>
#include <mpi.h>

#define TAM 4

int main(int argc, char **argv){
    int vet[TAM*2];
    int ped[TAM/2];
    int i, meurank;

MPI_Init(&argc, &argv);
    MPI_Comm_rank(MPI_COMM_WORLD, &meurank);

ped[0] = meurank;
    ped[1] = meurank * 10;
```

```
Outro exemplo de MPI_Gather

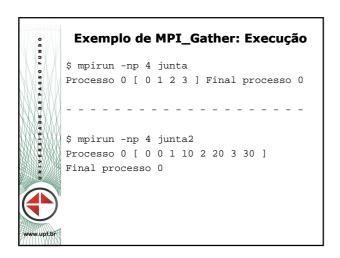
junta2.c

MPI_Gather(ped, TAM/2, MPI_INT, vet, TAM/2, MPI_INT,
0, MPI_COMM_WORLD);

if (meurank == 0) {
    printf("Processo %d [ ",meurank);
    for(i=0; i < TAM*2; i++)
        printf("%d ",vet[i]);
    printf("]\nFinal processo %d\n", meurank);
    fflush(stdout);

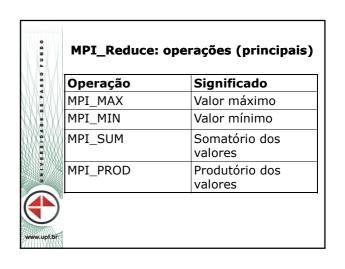
MPI_Finalize();
}

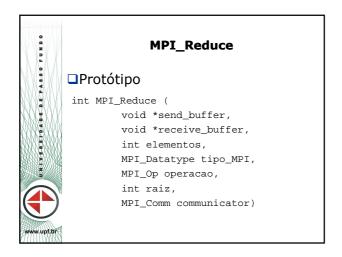
return(0);
}
```

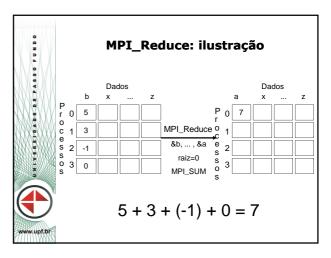












```
Exemplo de MPI_Reduce
#include <stdio.h>
#include <mpi.h>
#include <sys/time.h>

int main(int argc, char **argv){
    int numero, maior;
    int meurank;
    struct timeval tempo;

MPI_Init(&argc, &argv);
    MPI_Comm_rank(MPI_COMM_WORLD, &meurank);

gettimeofday(&tempo, NULL);
    srandom(tempo.tv_usec);
    numero = random() % 50000;

/* continua ... */
```

