Trabalho de Seminários II

# Quarto Trabalho

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1 #include <stdio.h>  
 2 #include <conio.h>  
 3 #include <mpi.h>  
 4 int main( )  
 5 {   
 7 int x;  
 8 int i;  
 9 int contador = 0;  
10 int myrank, nprocs;  
11 MPI\_Init(NULL,NULL);  
12 MPI\_Comm\_rank(MPI\_COMM\_WORLD, &myrank);  
13 MPI\_Comm\_size(MPI\_COMM\_WORLD, &nprocs);  
14 int A[ ];  
15   
16 printf( "Digite um número: " );  
17 scanf( "%d",&x);

If( x >= 0 )

{

A = new int [ x ];

}  
18   
19 for( i = 0; i < x; i++ )  
20 {  
21 MPI\_Scatter ( A[i], x, MPI\_INT, A[i], x, MPI\_INT, 1, MPI\_COMM\_WORLD )  
22 A[i] = i;  
23 if ( A[i] % 2 != 0 )  
24 {  
25 MPI\_Reduce ( &A[i] ,&contador ,MPI\_INT ,contador ,1 ,MPI\_COMM\_WORLD )  
26 contador = contador + 1;  
27 }  
28 }  
29 MPI\_Finalize( );  
30 }



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 2 #include <conio.h>  
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 4 int main( )  
 5 {   
 6 int x;  
 7 int i;  
 8 int myrank, nprocs;  
 9 MPI\_Init(NULL,NULL);  
10 MPI\_Comm\_rank(MPI\_COMM\_WORLD, &myrank);  
11 MPI\_Comm\_size(MPI\_COMM\_WORLD, &nprocs);  
12 int A[ ];  
13 int B[ ];  
14 int soma = 0;  
15   
16 printf( "Digite um número: " );  
17 scanf( "%d",&x);  
18 if( x >= 0 )  
19 {   
20 A = new int [ x ];  
21 B = new int [ x ];  
22 }  
23   
24 for( i = 0; i < x; i++ )  
25 {  
26 MPI\_Scatter ( A[i], x, MPI\_INT, A[i], x, MPI\_INT, 1, MPI\_COMM\_WORLD )  
27 A[i] = i;  
28 MPI\_Scatter ( B[i], x, MPI\_INT, B[i], x, MPI\_INT, 2, MPI\_COMM\_WORLD )  
29 B[i] = i+1;  
30   
31 MPI\_Reduce ( &soma ,&soma ,MPI\_INT ,soma ,1 ,MPI\_COMM\_WORLD )  
32 soma = soma + ( A[i]\*B[i] );  
33 }  
34 MPI\_Finalize( );  
35 }