

forcePart1 (generic function with 1 method)

```

1 #####function to execute part of the parallel computation#####
2 function
  forcePart1(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,wbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,wbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```

forcePart2 (generic function with 1 method)

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1 #####function to execute part of the parallel computation#####
2 function
  forcePart2(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```

forcePart3 (generic function with 1 method)

```

1 #####function to execute part of the parallel computation#####
2 function
  forcePart3(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```

forcePart4 (generic function with 1 method)

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1 #####function to execute part of the parallel computation#####
2 function
  forcePart4(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3 coefDataTmp=deepcopy(coefData);
4 fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5 xDataStoreTmp=zeros(n1,n2);
6 yDataStoreTmp=zeros(n1,n2);
7 zDataStoreTmp=zeros(n1,n2);
8 step1=(upLim1-lowLim1)/n1;
9 step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end
```

forcePart5 (generic function with 1 method)

```

1 #####function to execute part of the parallel computation#####
2 function
  forcePart5(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```

forcePart6 (generic function with 1 method)

```

1 #####function to execute part of the parallel computation#####
2 function
  forcePart6(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```

forcePart7 (generic function with 1 method)

```

1 #####function to execute part of the parallel computation#####
2 function
  forcePart7(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```

forcePart8 (generic function with 1 method)

```

1 #####function to execute part of the parallel computation#####
2 function
  forcePart8(parID::Integer,n1::Integer,n2::Integer,lowLim1::Float64,upLim1::Float64,lowLim2::Float64,upLim2::Float64,ωbTmp::Float64, modelTmp::FrequencySimulation,
  coefData::Matrix{ComplexF64})
3  coefDataTmp=deepcopy(coefData);
4  fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
5  xDataStoreTmp=zeros(n1,n2);
6  yDataStoreTmp=zeros(n1,n2);
7  zDataStoreTmp=zeros(n1,n2);
8  step1=(upLim1-lowLim1)/n1;
9  step2=(upLim2-lowLim2)/n2;
10 for i in 1:n1
11     θTmp=lowLim1+(i-1)*step1;
12     for j in 1:n2
13         φTmp=lowLim2+(j-1)*step2;
14         fDensData=fDens(θTmp,φTmp,parID,ωbTmp,modelTmp,coefDataTmp);
15         xDataStoreTmp[i,j]=fDensData[1];
16         yDataStoreTmp[i,j]=fDensData[2];
17         zDataStoreTmp[i,j]=fDensData[3];
18     end
19 end
20 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
21 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
22 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
23 return fDataTmp
24 end

```


forceT1 (generic function with 1 method)

```

1 #####single-threaded routine#####
2 #####numerical quadrature for acoustic force#####
3 #####n1,n2 denote sample numbers in polar angle  $\theta$  and azimuthal angle  $\phi$ 
  coordinate respectively#####
4 function forceT1(parID::Integer,n1::Integer,n2::Integer, $\omega$ bTmp::Float64,
  modelTmp::FrequencySimulation, coefData::Matrix{ComplexF64})
5 coefDataTmp=deepcopy(coefData);
6 fDataTmp=[0.0,0.0,0.0]#####[fx,fy,fz]#####
7 xDataStoreTmp=zeros(n1,n2);
8 yDataStoreTmp=zeros(n1,n2);
9 zDataStoreTmp=zeros(n1,n2);
10 step1= $\pi$ /n1;
11 step2=2* $\pi$ /n2;
12 for i in 1:n1
13      $\theta$ Tmp=(i-1)*step1;
14     for j in 1:n2
15          $\phi$ Tmp=(j-1)*step2;
16         fDensData=fDens( $\theta$ Tmp, $\phi$ Tmp,parID, $\omega$ bTmp,modelTmp,coefDataTmp);
17         xDataStoreTmp[i,j]=fDensData[1];
18         yDataStoreTmp[i,j]=fDensData[2];
19         zDataStoreTmp[i,j]=fDensData[3];
20     end
21 end
22 fDataTmp[1]=-sum(xDataStoreTmp)*step1*step2;
23 fDataTmp[2]=-sum(yDataStoreTmp)*step1*step2;
24 fDataTmp[3]=-sum(zDataStoreTmp)*step1*step2;
25 return fDataTmp
26 end

```

forceT2 (generic function with 1 method)

```

1 #####2-threaded routine#####
2 #####numerical quadrature for acoustic force#####
3 #####n1,n2 denote sample numbers in polar angle  $\theta$  and azimuthal angle  $\phi$ 
  coordinate respectively#####
4 function forceT2(parID::Integer,n1::Integer,n2::Integer,wbTmp::Float64,
  modelTmp::FrequencySimulation, coefData::Matrix{ComplexF64})
5   threadNo=2;
6   threadNo1=1;
7   threadNo2=2;
8   n1Tmp=Int(n1/threadNo1);
9   n2Tmp=Int(n2/threadNo2);
10  lowLim1=Array{Float64}(undef,threadNo1);
11  upLim1=Array{Float64}(undef,threadNo1);
12  lowLim2=Array{Float64}(undef,threadNo2);
13  upLim2=Array{Float64}(undef,threadNo2);
14  for i in 1:threadNo1
15      lowLim1[i]=(i-1)* $\pi$ /threadNo1;
16      upLim1[i]=lowLim1[i]+ $\pi$ /threadNo1;
17  end
18  for i in 1:threadNo2
19      lowLim2[i]=(i-1)*2 $\pi$ /threadNo2;
20      upLim2[i]=lowLim2[i]+2 $\pi$ /threadNo2;
21  end
22  result1=Threads.@spawn
    forcePart1(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
23  result2=Threads.@spawn
    forcePart2(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
24  return fetch(result1) + fetch(result2)
25  end

```

forceT4 (generic function with 1 method)

```

1 #####4-threaded routine#####
2 #####numerical quadrature for acoustic force#####
3 #####n1,n2 denote sample numbers in polar angle  $\theta$  and azimuthal angle  $\phi$ 
  coordinate respectively#####
4 function forceT4(parID::Integer,n1::Integer,n2::Integer,wbTmp::Float64,
  modelTmp::FrequencySimulation, coefData::Matrix{ComplexF64})
5   threadNo=4;
6   threadNo1=2;
7   threadNo2=2;
8   n1Tmp=Int(n1/threadNo1);
9   n2Tmp=Int(n2/threadNo2);
10  lowLim1=Array{Float64}(undef,threadNo1);
11  upLim1=Array{Float64}(undef,threadNo1);
12  lowLim2=Array{Float64}(undef,threadNo2);
13  upLim2=Array{Float64}(undef,threadNo2);
14  for i in 1:threadNo1
15      lowLim1[i]=(i-1)* $\pi$ /threadNo1;
16      upLim1[i]=lowLim1[i]+ $\pi$ /threadNo1;
17  end
18  for i in 1:threadNo2
19      lowLim2[i]=(i-1)*2 $\pi$ /threadNo2;
20      upLim2[i]=lowLim2[i]+2 $\pi$ /threadNo2;
21  end
22  result1=Threads.@spawn
    forcePart1(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
23  result2=Threads.@spawn
    forcePart2(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
24  result3=Threads.@spawn
    forcePart3(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
25  result4=Threads.@spawn
    forcePart4(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
26  return fetch(result1) + fetch(result2) + fetch(result3) + fetch(result4)
27  end

```

forceT6 (generic function with 1 method)

```

1 #####6-threaded routine#####
2 #####numerical quadrature for acoustic force#####
3 #####n1,n2 denote sample numbers in polar angle  $\theta$  and azimuthal angle  $\phi$ 
  coordinate respectively#####
4 function forceT6(parID::Integer,n1::Integer,n2::Integer,wbTmp::Float64,
  modelTmp::FrequencySimulation, coefData::Matrix{ComplexF64})
5   threadNo=4;
6   threadNo1=2;
7   threadNo2=3;
8   n1Tmp=Int(n1/threadNo1);
9   n2Tmp=Int(n2/threadNo2);
10  lowLim1=Array{Float64}(undef,threadNo1);
11  upLim1=Array{Float64}(undef,threadNo1);
12  lowLim2=Array{Float64}(undef,threadNo2);
13  upLim2=Array{Float64}(undef,threadNo2);
14  for i in 1:threadNo1
15      lowLim1[i]=(i-1)* $\pi$ /threadNo1;
16      upLim1[i]=lowLim1[i]+ $\pi$ /threadNo1;
17  end
18  for i in 1:threadNo2
19      lowLim2[i]=(i-1)*2 $\pi$ /threadNo2;
20      upLim2[i]=lowLim2[i]+2 $\pi$ /threadNo2;
21  end
22  result1=Threads.@spawn
    forcePart1(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
23  result2=Threads.@spawn
    forcePart2(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
24  result3=Threads.@spawn
    forcePart3(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[3],upLim2[3],wbTmp,
    modelTmp, coefData);
25  result4=Threads.@spawn
    forcePart4(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
26  result5=Threads.@spawn
    forcePart5(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
27  result6=Threads.@spawn
    forcePart6(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[3],upLim2[3],wbTmp,
    modelTmp, coefData);
28  return fetch(result1) + fetch(result2) + fetch(result3) + fetch(result4)+
    fetch(result5) + fetch(result6)
29 end

```

forceT8 (generic function with 1 method)

```

1 #####8-threaded routine#####
2 #####numerical quadrature for acoustic force#####
3 #####n1,n2 denote sample numbers in polar angle  $\theta$  and azimuthal angle  $\phi$ 
  coordinate respectively#####
4 function forceT8(parID::Integer,n1::Integer,n2::Integer,wbTmp::Float64,
  modelTmp::FrequencySimulation, coefData::Matrix{ComplexF64})
5   threadNo=4;
6   threadNo1=2;
7   threadNo2=4;
8   n1Tmp=Int(n1/threadNo1);
9   n2Tmp=Int(n2/threadNo2);
10  lowLim1=Array{Float64}(undef,threadNo1);
11  upLim1=Array{Float64}(undef,threadNo1);
12  lowLim2=Array{Float64}(undef,threadNo2);
13  upLim2=Array{Float64}(undef,threadNo2);
14  for i in 1:threadNo1
15      lowLim1[i]=(i-1)* $\pi$ /threadNo1;
16      upLim1[i]=lowLim1[i]+ $\pi$ /threadNo1;
17  end
18  for i in 1:threadNo2
19      lowLim2[i]=(i-1)*2 $\pi$ /threadNo2;
20      upLim2[i]=lowLim2[i]+2 $\pi$ /threadNo2;
21  end
22  result1=Threads.@spawn
    forcePart1(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
23  result2=Threads.@spawn
    forcePart2(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
24  result3=Threads.@spawn
    forcePart3(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[3],upLim2[3],wbTmp,
    modelTmp, coefData);
25  result4=Threads.@spawn
    forcePart4(parID,n1Tmp,n2Tmp,lowLim1[1],upLim1[1],lowLim2[4],upLim2[4],wbTmp,
    modelTmp, coefData);
26  result5=Threads.@spawn
    forcePart5(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[1],upLim2[1],wbTmp,
    modelTmp, coefData);
27  result6=Threads.@spawn
    forcePart6(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[2],upLim2[2],wbTmp,
    modelTmp, coefData);
28  result7=Threads.@spawn
    forcePart7(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[3],upLim2[3],wbTmp,
    modelTmp, coefData);
29  result8=Threads.@spawn
    forcePart8(parID,n1Tmp,n2Tmp,lowLim1[2],upLim1[2],lowLim2[4],upLim2[4],wbTmp,
    modelTmp, coefData);
30  return fetch(result1) + fetch(result2) + fetch(result3) + fetch(result4)+
    fetch(result5) + fetch(result6)+ fetch(result7) + fetch(result8)
31 end

```

force (generic function with 1 method)

```
1 function force(parID::Integer,n1::Integer,n2::Integer,wbTmp::Float64,  
  modelTmp::FrequencySimulation, coefData::Matrix{ComplexF64})  
2   coefDataTmp=deepcopy(coefData);  
3   num_threads = Threads.nthreads();  
4   if num_threads==1  
5       println("Single-threaded computation")  
6       return forceT1(parID,n1,n2,wbTmp, modelTmp, coefDataTmp)  
7   elseif 2<=num_threads&&num_threads<4  
8       println("2-threaded parallel computation")  
9       return forceT2(parID,n1,n2,wbTmp, modelTmp, coefDataTmp)  
10  elseif 4<=num_threads&&num_threads<6  
11      println("4-threaded parallel computation")  
12      return forceT4(parID,n1,n2,wbTmp, modelTmp, coefDataTmp)  
13  elseif 6<=num_threads&&num_threads<8  
14      println("6-threaded parallel computation")  
15      return forceT6(parID,n1,n2,wbTmp, modelTmp, coefDataTmp)  
16  else  
17      println("8-threaded parallel computation")  
18      return forceT8(parID,n1,n2,wbTmp, modelTmp, coefDataTmp)  
19  end  
20 end  
21
```