

```

1551
1552 !doubleprecision cross
1553
1554 !call MPI_Init(errcode)
1555 call MPI_Comm_size(MPI_COMM_WORLD, size, errcode)
1556 call MPI_Comm_rank(MPI_COMM_WORLD, rank, errcode)
1557
1558
1559
1560
1561 call input1
1562 call triangles
1563 call area
1564 call innerbp
1565 call airfoilsit
1566
1567 call es1
1568 num_node=nnn
1569 disp(11,11)=displacment !nemati >displacment dar file con ezefe shavad
1570 surfleag(11,11)=surfacelength !|
1571 print*, 'displacment', displacment
1572 print*, 'surfacelength', surfacelength
1573
1574
1575 yes=0
1576 numyes=0
1577 num=0
1578
1579 ! ***** NIDS LOOP FOR STEP BY STEP DISPLACMENT INNER BOUNDARY POINT *****
1580
1581
1582
1583 do i=1, Nedge
1584     sume(1)=0
1585     sumb(i)=0
1586 enddo
1587 do i=1, np
1588     sunk(i)=0

```

Search Solution E

Solution Console

- Header File
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```

5516
5517 !-----
5518
5519 subroutine as1
5520 !-----
5521 use mpi
5522
5523 include 'com.f90'
5524 real dxxx(20000), dyyy(20000), r(20000)
5525 integer ir
5526 surfacelength=0.0
5527 do ir=1,nna
5528
5529     if (ir==nna) then
5530
5531         dxxx(NAA(ir))=abs(x(Naa(nna))-x(Naa(1)))
5532         dyyy(NAA(ir))=abs(Y(Naa(nna))-Y(Naa(1)))
5533
5534     else
5535
5536         dxxx(NAA(ir))=abs(x(Naa(ir+1))-x(Naa(ir)))
5537         dyyy(NAA(ir))=abs(Y(Naa(ir+1))-Y(Naa(ir)))
5538
5539     end if
5540
5541     r(NAA(ir))=sqrt((dxxx(NAA(ir)))**2+(dyyy(NAA(ir)))**2)
5542     surfacelength=surfacelength+r(NAA(ir))
5543
5544 end do
5545
5546
5547 print*, 'surf', surfacelength
5548
5549 return
5550
5551 end
5552 !-----
5553

```

Search Solution E

Solution 'Console

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```
2550 real disp(120,20),surfleng(120,20)
2551
2552 fdouble
2553
2554 fcall
2555 call
2556 call
2557
2558
2559
2560
2561
2562
2563
2564
2565
2566
2567
2568
2569
2570
2571 print*
2572 print*
2573
2574
2575
2576
2577
2578
2579
2580
2581
2582
2583
2584
2585
2586
2587
2588
```

```
displacment 2.688178
displacment 2.688178
suracelength 0.0000000E+00
suracelength 0.0000000E+00
displacment 2.688178
suracelength 0.0000000E+00
surf 2.827668
displacment 2.688178
surfacelength 0.0000000E+00
displacment 2.688178
suracelength 0.0000000E+00
displacment 2.688178
suracelength 0.0000000E+00
surf 2.827668
displacment 2.688178
surfacelength 0.0000000E+00
surf 2.827668
displacment 2.688178
surfacelength 0.0000000E+00
displacment 2.688178
suracelength 0.0000000E+00
Impiexec@Jahan-node51 Sending Ctrl-C to processes as requested
Impiexec@Jahan-node51 Press Ctrl-C again to force abort
C:\Jalalian\jalalian_parallel_2\jalalian_parallel_14020612 - Copy\Morphing optimizati
```

Solution Expl...

Search Solution E...

Solution 'Console

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