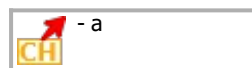# Pi Calculation
Parallel Processing

Calculus I

This is one of the parallel processing files. The Calculus I and Calculus II are files which do mathematical calculations of Pi - π in parallel, therefore we get twice as fast results of Pi - π. The file which collects results from the Calculus I and Calculus II and sets up variables between the files is the Parallel processing master.
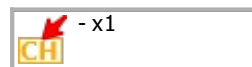
```
calcPi(npoints)
{
  1  circlePoints := 0
     for(i := 0 , i < npoints , i += 1)
     {
        1  xcord := randnum(-1 , 1)
        2  ycord := randnum(-1 , 1)

           if( xcord² + ycord² <= 1 )
        3  {
              1  circlePoints += 1
           }
     }
  3  return(circlePoints)
}
```

a := 0

a = 2000

 - a

Import number of points from main document

x1 := calcPi(a)

x1 = 1523

 - x1

Export number of points in the circle to Channel