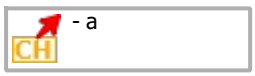
Pi Calculation
Parallel Processing

Calculus I

This is one of the parallel processing files. Calculus I and Calculus II are files which do mathematical calculations of Pi - ΠΤ in parallel, therefore we get the results of Pi - ΠΤ twice as fast. The file which collects results from the Calculus I and Calculus II and sets up variables between the files is the Parallel processing master.

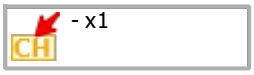
```
calcPi(npoints)
{
  1 circlePoints := 0
    for(i := 0 , i < npoints , i += 1 )
    {
      1 xcord := randnum(-1 , 1)
      2 ycord := randnum(-1 , 1)
  2   if( xcord^2 + ycord^2 <= 1 )
      3 {
          1 circlePoints += 1
        }
    }
  3 return(circlePoints)
}
```

```
a := 0
a = 2000
```



Import number of points from main document

```
x1 := calcPi(a)
x1 = 1561
```



Export number of points in the circle to Channel