

Geoinformatica paper extension

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Overlay code...

```
log("Info:TotalEdges=>edgesRDD")

val study_area = new QuadRectangle( getStudyArea(edgesRDD) ) // getStudyArea returns an Envelope...
implicit val quadtree: StandardQuadTree[LineString] = new StandardQuadTree[LineString](study_area, 0, params.excentries(), 15) // study_area, level, max items, max level...
val sample = edgesRDD.sample(withReplacement = false, params.fraction(), 42).collect() // replacement, sample size, random seed...
sample.foreach{ edge =>
  quadtree.insert(new QuadRectangle(edge.getEnvelopeInternal(), edge)
}
quadtree.assignPartitionIds()
quadtree.assignPartitionLineage()
implicit val cells: Map[Int, Cell] = getCells(quadtree)

val edgesA = partitionEdges(edgesRDDA, quadtree, "A")
val edgesB = partitionEdges(edgesRDB, quadtree, "B")

val non_emptyA = getNonEmptyCells(edgesA)
val non_emptyB = getNonEmptyCells(edgesB, "B")

val locaA = createLocalCells(edgesA)
val ma = runEmptyCells(locaA, non_emptyA)

val locaB = createLocalCells(edgesB, "B")
val mb = runEmptyCells(locaB, non_emptyB, "B")

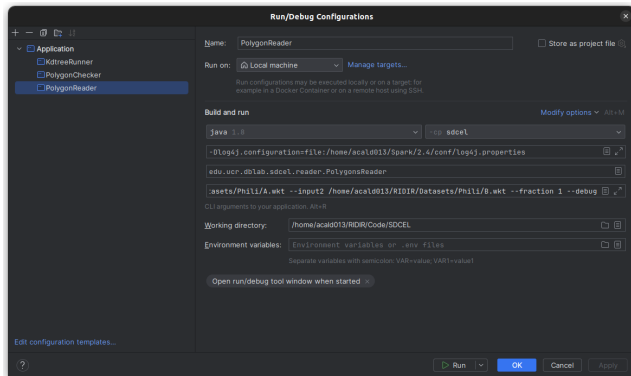
79 DCELOverlay2.overlay(locaA, ma, locaB, mb)
80
81 }
82 }
83 }

PolygonReader : maintargs: Array[String]
```

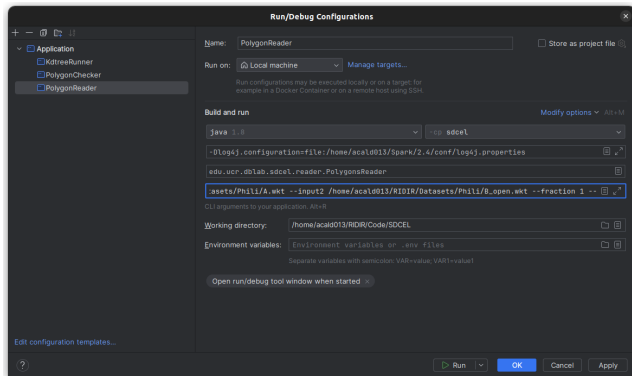
Run PolygonReader x

Segments on base: 10
Segments to add: 10
2024-02-22 09:40:11.478125994[Saved /tmp/edgesH1.wkt in 0.00s [10 records].
2024-02-22 09:40:11.480125956[Saved /tmp/edgesH2.wkt in 0.00s [10 records].
2024-02-22 09:40:15.984138468[Saved /tmp/edges2.wkt in 0.01s [7162 records].
2024-02-22 09:40:20.948155424[Saved /tmp/edges.wkt in 0.01s [11955 records].
2024-02-22 09:40:24.735139211[Saved /tmp/edges0.wkt in 0.01s [2671 records].
Process finished with exit code 0

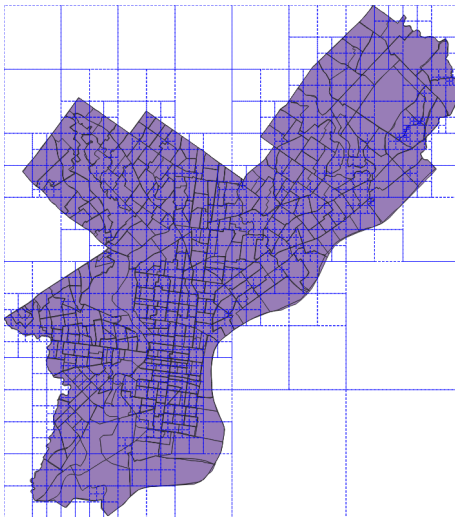
Overlay code...



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