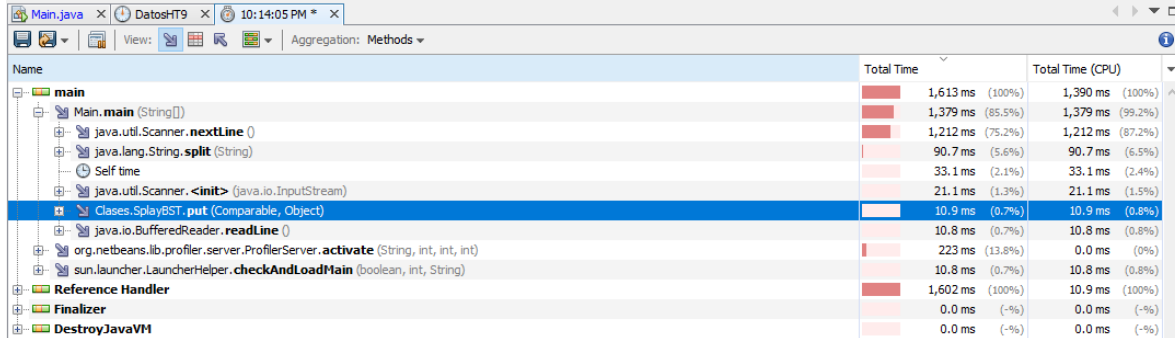


# Tiempos de ejecución

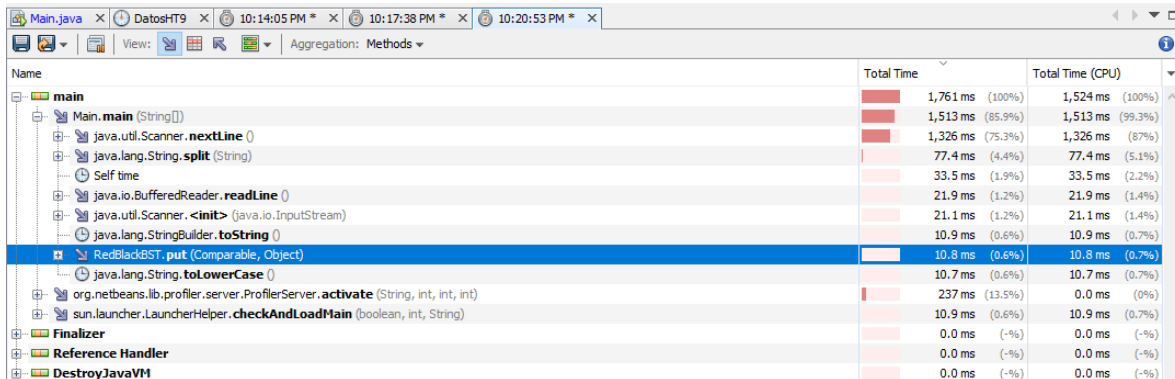
## Tiempo para llenar un SplayTree



Name	Total Time	Total Time (CPU)
main	1,613 ms (100%)	1,390 ms (100%)
Main.main (String[])	1,379 ms (85.5%)	1,379 ms (99.2%)
java.util.Scanner.nextLine ()	1,212 ms (75.2%)	1,212 ms (87.2%)
java.lang.String.split (String)	90.7 ms (5.6%)	90.7 ms (6.5%)
Self time	33.1 ms (2.1%)	33.1 ms (2.4%)
java.util.Scanner.<init> (java.io.InputStream)	21.1 ms (1.3%)	21.1 ms (1.5%)
Clases.SplayBST.put (Comparable, Object)	10.9 ms (0.7%)	10.9 ms (0.8%)
java.io.BufferedReader.readLine ()	10.8 ms (0.7%)	10.8 ms (0.8%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	223 ms (13.8%)	0.0 ms (0%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	10.8 ms (0.7%)	10.8 ms (0.8%)
Reference Handler	1,602 ms (100%)	10.9 ms (100%)
Finalizer	0.0 ms (-%)	0.0 ms (-%)
DestroyJavaVM	0.0 ms (-%)	0.0 ms (-%)

Para esta ejecución se comentaron las instrucciones que realizan la traducción, y sólo se ejecutó la parte de llenar el árbol.

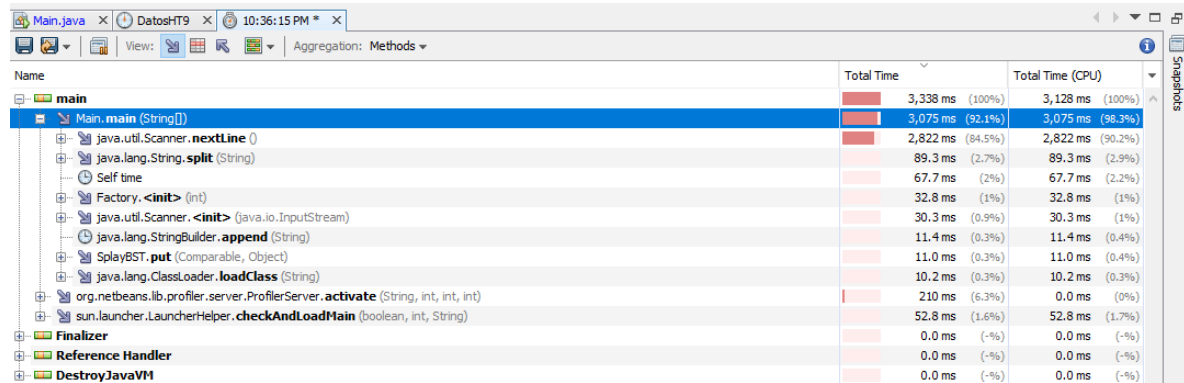
## Tiempo para llenar un RBT



Name	Total Time	Total Time (CPU)
main	1,761 ms (100%)	1,524 ms (100%)
Main.main (String[])	1,513 ms (85.9%)	1,513 ms (99.3%)
java.util.Scanner.nextLine ()	1,326 ms (75.3%)	1,326 ms (87%)
java.lang.String.split (String)	77.4 ms (4.4%)	77.4 ms (5.1%)
Self time	33.5 ms (1.9%)	33.5 ms (2.2%)
java.io.BufferedReader.readLine ()	21.9 ms (1.2%)	21.9 ms (1.4%)
java.util.Scanner.<init> (java.io.InputStream)	21.1 ms (1.2%)	21.1 ms (1.4%)
java.lang.StringBuilder.toString ()	10.9 ms (0.6%)	10.9 ms (0.7%)
RedBlackBST.put (Comparable, Object)	10.8 ms (0.6%)	10.8 ms (0.7%)
java.lang.String.toLowerCase ()	10.7 ms (0.6%)	10.7 ms (0.7%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	237 ms (13.5%)	0.0 ms (0%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	10.9 ms (0.6%)	10.9 ms (0.7%)
Finalizer	0.0 ms (-%)	0.0 ms (-%)
Reference Handler	0.0 ms (-%)	0.0 ms (-%)
DestroyJavaVM	0.0 ms (-%)	0.0 ms (-%)

Para esta ejecución se comentaron las instrucciones que realizan la traducción, y sólo se ejecutó la parte de llenar el árbol.

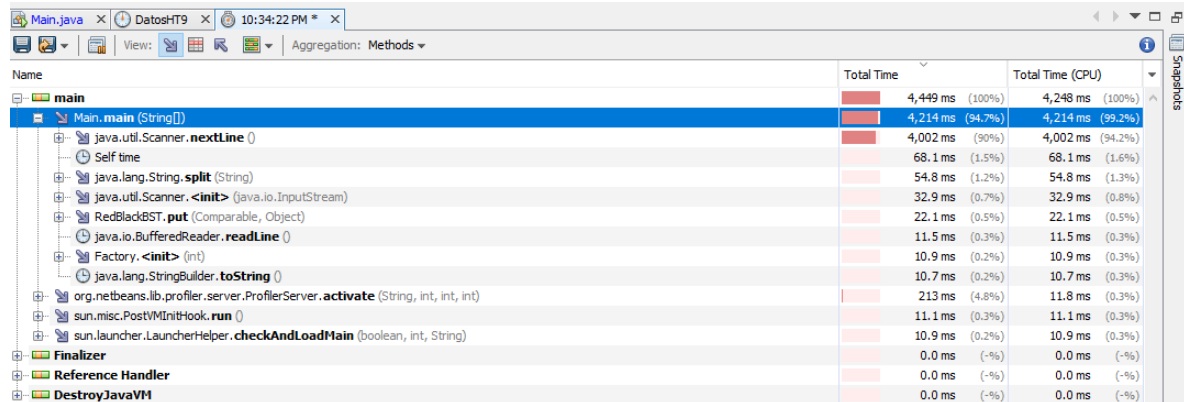
## Tiempo para traducir en un SplayTree



Name	Total Time	Total Time (CPU)
main	3,338 ms (100%)	3,128 ms (100%)
Main.main (String[])	3,075 ms (92.1%)	3,075 ms (98.3%)
java.util.Scanner.nextLine ()	2,822 ms (84.5%)	2,822 ms (90.2%)
java.lang.String.split (String)	89.3 ms (2.7%)	89.3 ms (2.9%)
Self time	67.7 ms (2%)	67.7 ms (2.2%)
Factory.<init> (int)	32.8 ms (1%)	32.8 ms (1%)
java.util.Scanner.<init> (java.io.InputStream)	30.3 ms (0.9%)	30.3 ms (1%)
java.lang.StringBuilder.append (String)	11.4 ms (0.3%)	11.4 ms (0.4%)
SplayBST.put (Comparable, Object)	11.0 ms (0.3%)	11.0 ms (0.4%)
java.lang.ClassLoader.loadClass (String)	10.2 ms (0.3%)	10.2 ms (0.3%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	210 ms (6.3%)	0.0 ms (0%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	52.8 ms (1.6%)	52.8 ms (1.7%)
Finalizer	0.0 ms (-%)	0.0 ms (-%)
Reference Handler	0.0 ms (-%)	0.0 ms (-%)
DestroyJavaVM	0.0 ms (-%)	0.0 ms (-%)

El tiempo total para la traducción del texto es el tiempo total del *main*, sin contar el tiempo que pasó esperando la entrada del usuario.

## Tiempo para traducir en un RBT



Name	Total Time	Total Time (CPU)
main	4,449 ms (100%)	4,248 ms (100%)
Main.main (String[])	4,214 ms (94.7%)	4,214 ms (99.2%)
java.util.Scanner.nextLine ()	4,002 ms (90%)	4,002 ms (94.2%)
Self time	68.1 ms (1.5%)	68.1 ms (1.6%)
java.lang.String.split (String)	54.8 ms (1.2%)	54.8 ms (1.3%)
java.util.Scanner.<init> (java.io.InputStream)	32.9 ms (0.7%)	32.9 ms (0.8%)
RedBlackBST.put (Comparable, Object)	22.1 ms (0.5%)	22.1 ms (0.5%)
java.io.BufferedReader.readLine ()	11.5 ms (0.3%)	11.5 ms (0.3%)
Factory.<init> (int)	10.9 ms (0.2%)	10.9 ms (0.3%)
java.lang.StringBuilder.toString ()	10.7 ms (0.2%)	10.7 ms (0.3%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	213 ms (4.8%)	11.8 ms (0.3%)
sun.misc.PostVMInitHook.run ()	11.1 ms (0.3%)	11.1 ms (0.3%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	10.9 ms (0.2%)	10.9 ms (0.3%)
Finalizer	0.0 ms (-%)	0.0 ms (-%)
Reference Handler	0.0 ms (-%)	0.0 ms (-%)
DestroyJavaVM	0.0 ms (-%)	0.0 ms (-%)

El tiempo total para la traducción del texto es el tiempo total del *main*, sin contar el tiempo que pasó esperando la entrada del usuario.