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## Tiempos de corrida de 3 mapas:

Al comparar los tiempos de corrida del programa con los tres tipos de mapas se logro ver que linked map es el mas rápido, seguido por tree map y de ultimo el hashmap.

Main (pid 30903)

Sampler

Sample: CPU Memory Stop

Status: CPU sampling in progress

CPU samples Thread CPU Time

Hot Spots - Method

	Self Time [%]	Self Time	Self Time (CPU)	Total Time	Total Time (CPU)
jdk.internal.reflect.GeneratedMethodAccessor39.invoke ()		10,797 ms (65.1%)	10,797 ms	10,797 ms	10,797 ms
Main.main ()		4,298 ms (25.9%)	4,298 ms	4,298 ms	4,298 ms
jdk.internal.reflect.NativeMethodAccessorImpl.invoke0[native] ()		1,497 ms (9%)	1,497 ms	1,497 ms	1,497 ms
jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke ()		0.000 ms (0%)	0.000 ms	12,294 ms	12,294 ms
jdk.internal.reflect.GeneratedMethodAccessor1.invoke ()		0.000 ms (0%)	0.000 ms	12,294 ms	12,294 ms
jdk.internal.reflect.GeneratedMethodAccessor38.invoke ()		0.000 ms (0%)	0.000 ms	12,097 ms	12,097 ms
jdk.internal.reflect.NativeMethodAccessorImpl.invoke ()		0.000 ms (0%)	0.000 ms	1,497 ms	1,497 ms
com.intellij.rt.execution.application.AppMainV2\$1.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.misc.Unsafe.park[native] ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.misc.InnocuousThread.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.ref.CleanerImpl.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms

linked hashmap

Main (pid 30464)

Sampler

Sample: CPU Memory Stop

Status: CPU sampling in progress

CPU samples Thread CPU Time

Hot Spots - Method

	Self Time [%]	Self Time	Self Time (CPU)	Total Time	Total Time (CPU)
jdk.internal.reflect.GeneratedMethodAccessor47.invoke ()		16,303 ms (58.8%)	16,303 ms	16,303 ms	16,303 ms
Main.main ()		9,596 ms (34.6%)	9,596 ms	9,802 ms	9,802 ms
jdk.internal.reflect.NativeMethodAccessorImpl.invoke0[native] ()		1,501 ms (5.4%)	1,501 ms	1,501 ms	1,501 ms
jdk.internal.reflect.GeneratedMethodAccessor45.invoke ()		104 ms (0.4%)	104 ms	104 ms	104 ms
Cartas.toString ()		103 ms (0.4%)	103 ms	103 ms	103 ms
Cartas.<init> ()		102 ms (0.4%)	102 ms	102 ms	102 ms
jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke ()		0.000 ms (0%)	0.000 ms	17,908 ms	17,908 ms
jdk.internal.reflect.GeneratedMethodAccessor40.invoke ()		0.000 ms (0%)	0.000 ms	17,908 ms	17,908 ms
jdk.internal.reflect.GeneratedMethodAccessor1.invoke ()		0.000 ms (0%)	0.000 ms	17,908 ms	17,908 ms
com.intellij.rt.execution.application.AppMainV2\$1.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.misc.InnocuousThread.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.misc.Unsafe.park[native] ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.reflect.NativeMethodAccessorImpl.invoke ()		0.000 ms (0%)	0.000 ms	1,501 ms	1,501 ms
jdk.internal.ref.CleanerImpl.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms

tree map

Start Page Main (pid 31051)

Overview Monitor Threads Sampler

Main (pid 31051)

Sampler

Sample: CPU Memory Stop

Status: CPU sampling in progress

CPU samples Thread CPU Time

Hot Spots - Method

	Self Time [%]	Self Time	Self Time (CPU)	Total Time	Total Time (CPU)
jdk.internal.reflect.GeneratedMethodAccessor38.invoke ()		19,301 ms (69.4%)	19,301 ms	19,301 ms	19,301 ms
Main.main ()		6,898 ms (24.8%)	6,898 ms	6,898 ms	6,898 ms
jdk.internal.reflect.NativeMethodAccessorImpl.invoke0[native] ()		1,496 ms (5.4%)	1,496 ms	1,496 ms	1,496 ms
jdk.internal.reflect.GeneratedMethodAccessor36.invoke ()		98.7 ms (0.4%)	98.7 ms	20,295 ms	20,295 ms
jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke ()		0.000 ms (0%)	0.000 ms	20,896 ms	20,896 ms
jdk.internal.reflect.GeneratedMethodAccessor1.invoke ()		0.000 ms (0%)	0.000 ms	20,797 ms	20,797 ms
jdk.internal.reflect.NativeMethodAccessorImpl.invoke ()		0.000 ms (0%)	0.000 ms	1,496 ms	1,496 ms
jdk.internal.ref.CleanerImpl.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
com.intellij.rt.execution.application.AppMainV2\$1.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.misc.Unsafe.park[native] ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms
jdk.internal.misc.InnocuousThread.run ()		0.000 ms (0%)	0.000 ms	0.000 ms	0.000 ms

hashmap