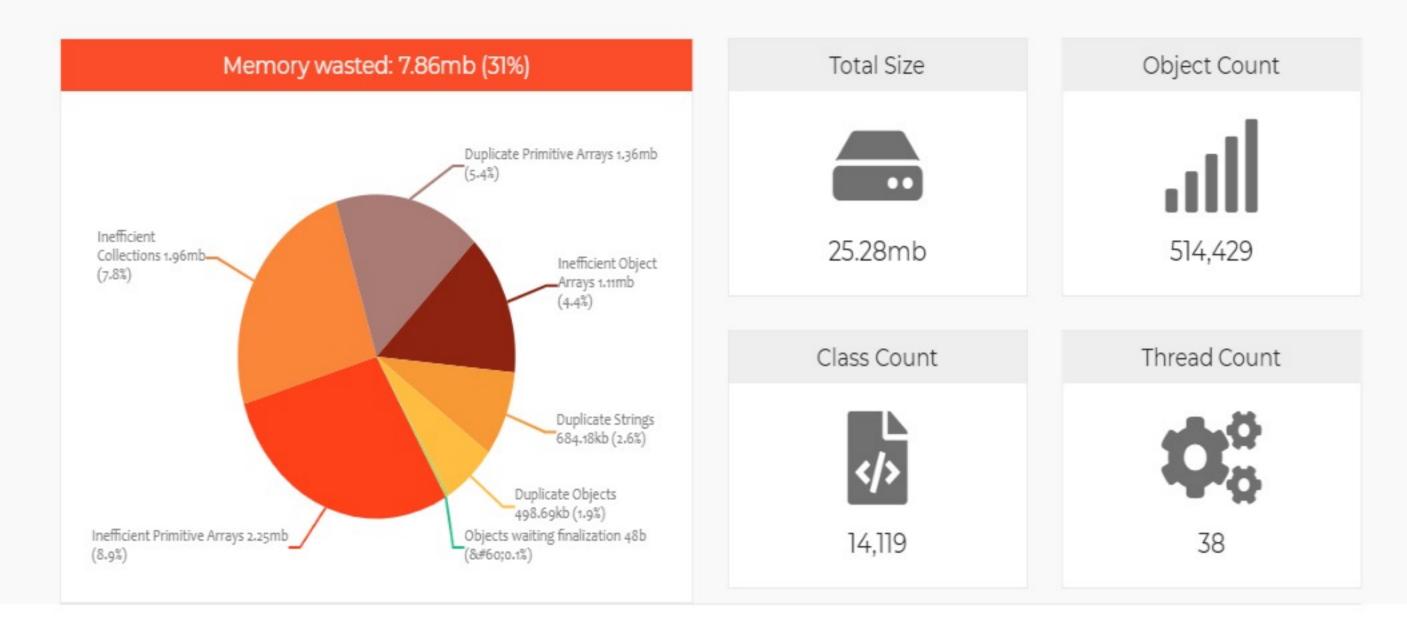
1. Heap Statistics

Learn more about Heap Statistics



2. What's in your Memory (by class)?

Learn more about What's in Memory

Class	Percentage	Size	Count	
String C	29.5%	7.47mb	73,593	

char[][2]	10.19	2.56mb	52,681	
	10.1%	2.001110	02,001	
java lang reflect Method 🗹	7.8%	1.98mb	23,564	
java util concurrent Concurrent HashMap. 🗹	7.7 %	1.94mb	698	
julinkedHashMap 🗹	4.0%	1.01mb	9,652	
byte[] 🗹	3.0%	782.72kb	3,890	

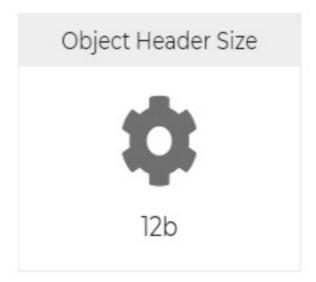
3. Large objects

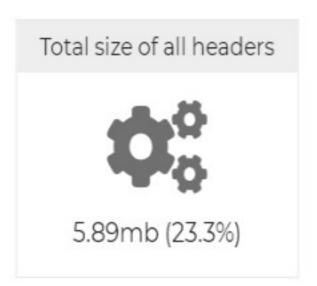
Learn more about Large Objects

Name	Percentage	Size
Java Static java.lang.ApplicationShutdownHooks.hooks 🗹	21.6%	5.45mb
Unreachable (garbage) objects. 🗹	17.8%	4.51mb
Java Static.org.apache.catalina.core.StandardHostValve.MY_CLASSLOADER 🗹	13.6%	3.44mb
Java Static.org.springframework.data.jpa.util.JpaMetamodel.CACHE 🗹	2.6%	677.8kb
Java Static.org.apache.tomcat.util.modeler.Registry.registry 🗹	2.4%	625.47kb
and 11304 more objects retaining 3.42mb (13.5%)		

4. Object Headers

Learn more about Object Headers





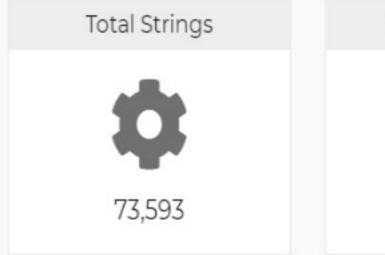
Class	Percentage	Total header size	Avg obj size	Count
String	3.3%	862.42kb	24	73,593
char[]	2.4%	617.36kb	166	52,681
java.util.concurrent.ConcurrentHashMap\$Node	2.2%	576.26kb	32	49,174
Object	1.4%	374.03kb	16	31,917
j.l.Class[]	1.1%	287.93kb	22	24,570

Show all records >>

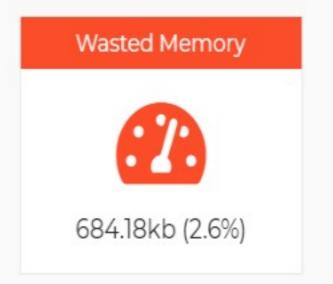
Please refer to our recommendations.

5. Duplicate Strings

Learn more about Duplicate Strings







▼ Top Duplicate Strings

Duplicate String	Percentage	Wasted	Count
	<0.1%	16.41kb	669
"java.lang.String"	<0.1%	15.61kb	611
"java.lang.Object"	<0.1%	12.91kb	518
"value"	<0.1%	9.71kb	386
"org.springframework.context.annotation.Bean"	<0.1%	8.27kb	211

? Who is holding Duplicate Strings?

Object Tree	Percentage	size
javalang reflect Method signature 🗹	<0.1%	17K

How to fix Duplicate Strings?

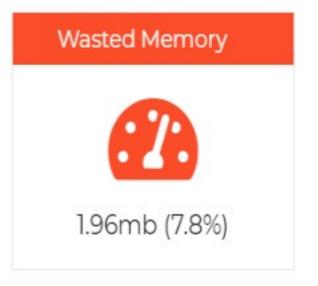
Please refer to our recommendations.

6. Inefficient collections

Learn more about Inefficient Collections







Top inefficient collections

Problem Percentage Wasted

22% of j.u.LinkedHashMap contains 1 element only	1.3%	345.82kb
11% of j.u.LinkedHashMap contains 2 - 4 elements only	0.8%	207.8kb
28% of j.u.LinkedHashSet contains 1 element only	0.6%	167.2kb
45% of j.u.ArrayList contains no elements	0.6%	160.41kb
44% of j.u.ArrayList contains 1 element only	0.6%	159.71kb

? Who is holding Inefficient Collections?

Object Tree	Percentage	size
org springframework boot autoconfigure condition Condition Fvaluation Report S Condition And Outcomes outcomes 🗹	0.3%	75K
jlClass\$AnnotationData annotations 🗹	0.3%	68K
java lang reflect Method declared Annotations 🗹	0.2%	47K
java lang reflect Field declared Annotations 🗹	0.1%	33K
Unreachable (garbage) objects 🗹	0.1%	31K

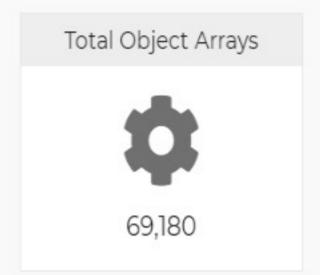
Show all records >>



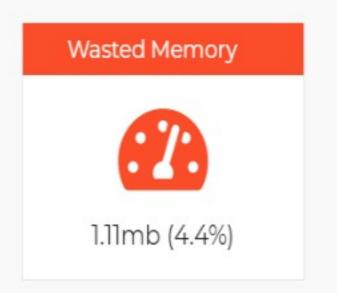
Please refer to our recommendations.

7. Inefficient Object Arrays

Learn more about Inefficient Object Arrays







Top inefficient Object Arrays

Problem	Percentage	Wasted
47% of j.l.Class[] declared with 1 length	.1%	273.05kb
33% of j.l.Class[] declared with 0 length	0.5%	128.91kb
13% of Object[] contains no elements	0.4%	97.7kb
9% of j.u.HashMap\$Node[] contains1 element only	0.2%	60.77kb
10% of Object[] contains 1 element only	0.2%	52.79kb

Show all records >>

? Who is holding Inefficient Object Arrays?

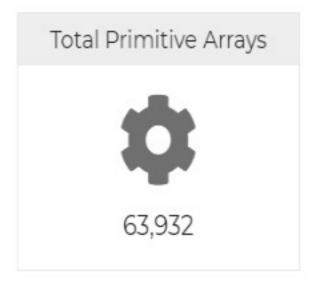
Object Tree	Percentage	size
Unreachable (garbage) objects □	0.7%	189K
javalang reflect Method parameter Types 🗹	0.3%	80K
javalangreflect Method parameterTypes. 2	0.2%	50K
javalangreflect Method parameter Types 🗹	0.2%	47K
j.I.ClassSReflectionData.declaredConstructors.	0.1%	31K

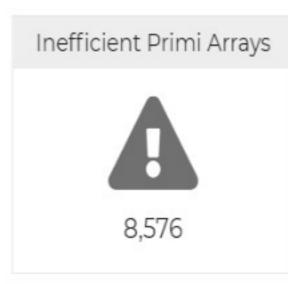


Please refer to our recommendations.

8. Inefficient Primitive Arrays

Learn more about Inefficient Primitive Arrays







Ton inefficient Primitive Arrays

Top inclined in initially Arrays

Problem	Percentage	Wasted
< 0.1% of char[] contains no elements	<mark>5.9</mark> %	1.5mb
46% of byte[] contains lot of 0s	1.4%	353.4kb
6% of int[] contains no elements	0.4%	101.8kb
16% of int[] contains lot of 0s	0.3%	73.01kb
59% of int[] declared with 0 length	0.2%	63.58kb

Show all records >>

Who is holding Inefficient Primitive Arrays?

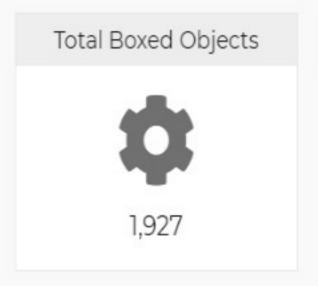
Object Tree	Percentage	size
static sun nio cs ext IBMI364 c2b 🗹	0.3%	78K
static sun nio cs ext IBM933 c2b 🗹	0.3%	77K
ava io BufferedOutputStream buf 🗹	0.3%	75K
iava io BufferedOutputStream buf 🗹	0.3%	75K
com mysql cj protocol ReadAheadInputStream buf 🗹	0.3%	74K

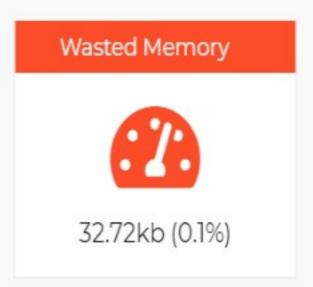
Show all records >>

How to fix Inefficient Primitive Arrays?

9. Boxed Numbers

Learn more about **Boxed Numbers**





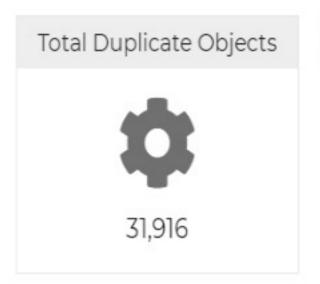
? Who is holding Boxed Numbers?

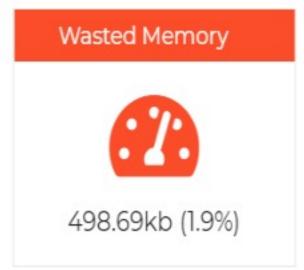
Object Tree	Percentage	size
jlByte[].☑	<0.1%	4K
jllong[] <mark>☑</mark>	<0.1%	4K
jlShort[] 	<0.1%	4K



10. Duplicate Objects

Learn more about Duplicate Objects





Types of Duplicate Objects

Object	Percentage	Wasted	Duplicate Count
Object	1 <mark>.</mark> 9%	498.69kb	31,916

♀ Top Duplicate Objects

Duplicate Object	Percentage	Wasted	Count
Objec)	1.9%	498.69kb	31,917

? Who is holding Duplicate Objects?

Object Tree

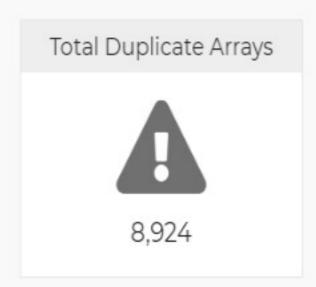
Object free	Percentage	SIZE
{java util concurrent Concurrent HashMap} values	0.6%	156K
{javautil concurrent ConcurrentHashMap} values	0.6%	156K
{javautil concurrent ConcurrentHashMap} values	0.6%	155K

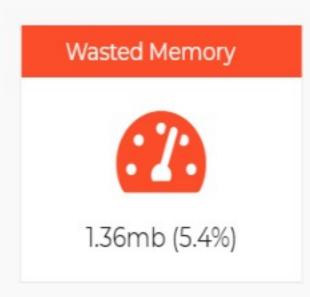
How to fix Duplicate Objects?

Please refer to our recommendations.

11. Duplicate Primitive Arrays

Learn more about <u>Duplicate Primitive Arrays</u>





≡ Types of Duplicate Arrays

Array Type	Percentage	Wasted	Duplicate Count
charf	o cer	67411kh	232

STORE!	4.0%	07 I.III.0	LOL
byte[]	1.7%	446.87kb	2,545
int[]	0.9%	242.92kb	5,761
boolean[]	<0.1%	20.05kb	353
long[]	<0.1%	3.22kb	14

♀ Top Duplicate Arrays

Duplicate Array	Percentage	Wasted	Count
byte[16384](1, 44, 0, 0, 2, 3, 100, 101, 102, 0, 0, 0, 22, 64, 64, 115, 101, 115, 105,)	0.5%	128.12kb	9
byte[16384](30, 0, 0, 0, 3, 83, 69, 76, 69, 67, 84, 32, 64, 64, 115, 101, 115, 105, 111,)	0.5%	128.12kb	9
char[32512](,,,,,,)	0.5%	127.03kb	3
char[29696](,,,,,,)	0.4%	116.03kb	3
char[27392](,,,,,,,)	0.4%	107.03kb	3

Show all records >>

? Who is holding Duplicate Arrays?

Object Tree	Percentage	size
com mysql cj.protocol ReadAheadInputStream.buf 🗹	0.3%	71K
java io BufferedOutputStream buf 🗹	0.3%	71K

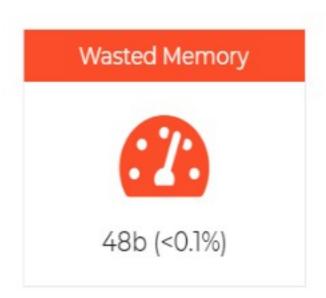
Unreachable (garbage) objects ☑	0.2%	63K
com mysql cj protocol ReadAheadInputStream buf 🗹	0.2%	56K
java io Buffered Output Stream buf 🗹	0.2%	56K



Please refer to our recommendations.

12. Objects waiting for Finalization

Learn more about Objects waiting for Finalization



? What are the objects waiting for finalization?

To see objects waiting for finalization, click here 2

Llour to fix objects weiting for finalization?



Please refer to our recommendations.

13. Threads

Learn more about Threads



14. Heap settings

Learn more about Heap Settings

No major recommendations.

15. System Properties

Learn more about System Properties

Key	Value
DID.	2000

90	PID	39600	
	awt.toolkit	sun.awt.windows.WToolkit	
	catalina.base	C:\Users\Caree2\AppData\Local\Temp\tomcat.5002208786504499207.9095	
	catalina.home	C:\Users\Caree2\AppData\Local\Temp\tomcat.1580953010250039306.6094	
	catalina.useNaming	false	