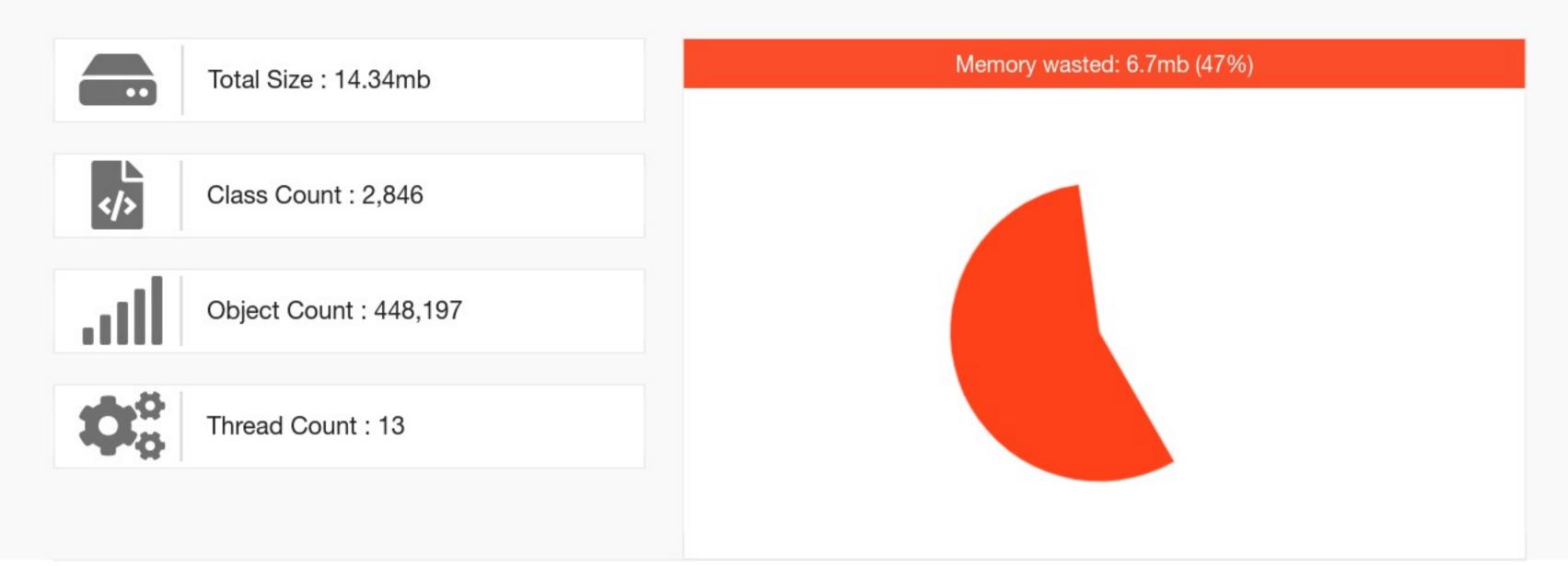
1. Heap Statistics

Learn more about Heap Statistics



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

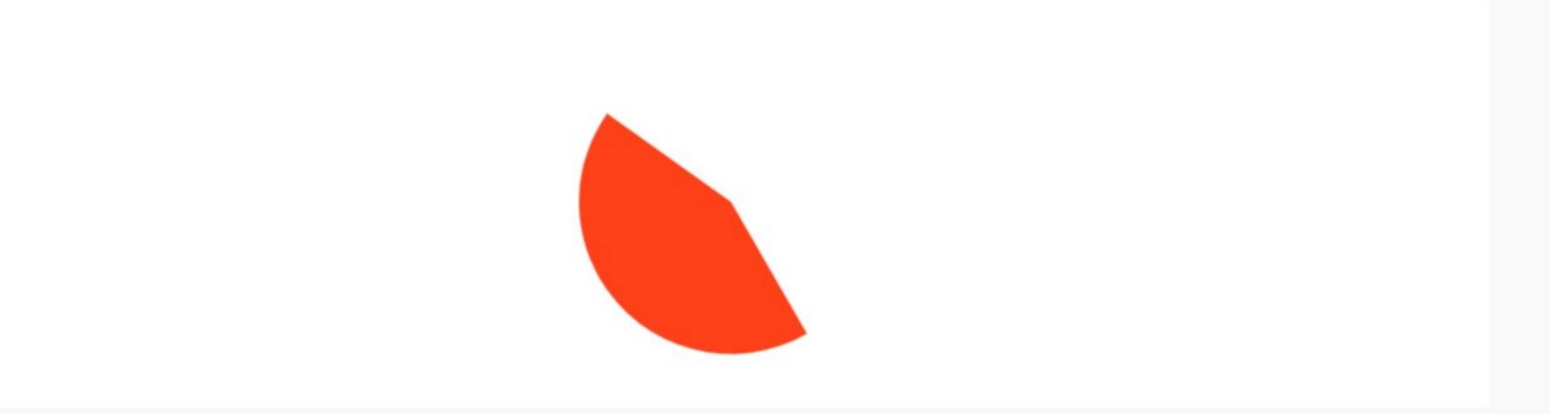
Learn more about What's in Memory

Class	Percentage	Size	Count
j.u.TreeMap 🗹	39.4%	5.65mb	34,036

String 2	10.4%	1.49mb	24,442	
j.l.Long 🗹	8.7%	1.25mb	54,480	
j.u.LinkedHashMap 🗹	7.3%	1.04mb	2,651	
javax.management.openmbean.CompositeDataSupport 🗹	5.4%	796.88kb	34,000	
Object[] 🗹	8 .9%	571.67kb	19,572	

3. Large objects

Learn more about Large Objects

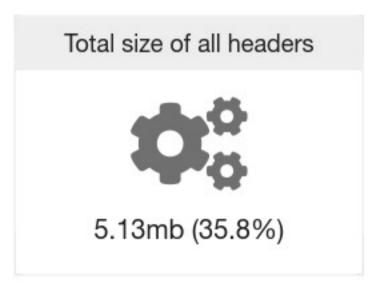


Name	Percentage	Size
<u>Java Static</u> .com.sun.jmx.remote.internal.ArrayNotificationBuffer.mbsToBuffer 🗹	74.0%	10.61mb
Unreachable (garbage) objects 🗹	₿.2%	472.44kb
Java Static jdk.jfr.internal.TypeLibrary.types 🗹	2.5%	362.28kb
JNI Global@7ffd73b58 (Object[]).	1.4%	205.55kb
Java Static java.time.zone.ZoneRulesProvider.ZONES 🗹	1.2%	179.59kb
and 4022 more objects retaining 1.02mb (7.1%)		

4. Object Headers

Learn more about Object Headers





7 Top Object Headers

Class	Percentage	Total header size	Avg obj size	Count
j.u.TreeMap\$Entry	8.6%	1.23mb	40	107,196
j.l.Long	4.3%	638.44kb	24	54,480
ј.и.ТrееМар	2.7%	398.86kb	48	34,036
j.u.TreeMap\$KeySet	2.7%	398.54kb	16	34,009
javax.management.openmbean.CompositeDataSupport	2.7%	398.44kb	24	34,000



To see our recommendations, please purchase Enterprise Edition.

5. Duplicate Strings

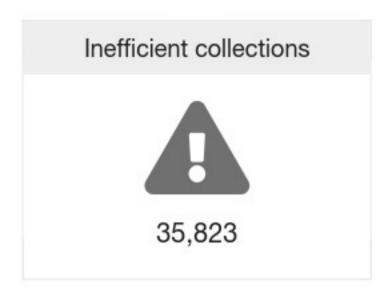
Learn more about Duplicate Strings

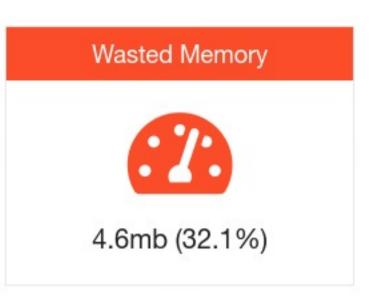
Not Detected

6. Inefficient collections

Learn more about Inefficient Collections







Top inefficient collections

Problem	Percentage	Wasted
97% of j.u.TreeMap contains 2 - 4 elements only	30.1%	4.31mb
16% of j.u.LinkedHashMap contains 1 element only	0.5%	71.66kb
84% of java.util.concurrent.ConcurrentHashMap contains no elements	0.2%	32.69kb
33% of j.u.ArrayList contains 1 element only	0.2%	25.44kb
53% of j.u.HashSet contains 1 element only	0.2%	25.38kb

Show all records >>

Who is holding Inefficient Collections?

Object Tree	Percentage	size
javax.management.openmbean.CompositeDataSupport.contents 🗹	17.9%	2,625K
javax.management.openmbean.CompositeDataSupport.contents 🗹	1.1%	1,625K
javax.management.openmbean.CompositeDataSupport.contents 🗹	1.1%	164K

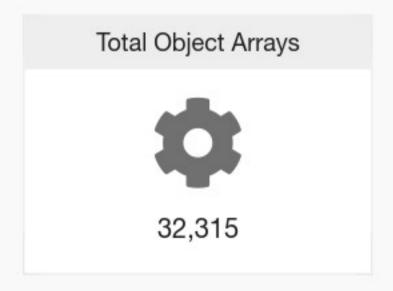


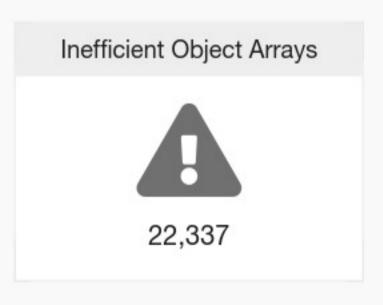


To see our recommendations, please purchase Enterprise Edition.

7. Inefficient Object Arrays

Learn more about Inefficient Object Arrays







Top inefficient Object Arrays

Problem	Percentage	Wasted
84% of Object[] declared with 1 length	2.6%	385.78kb

60% of String[] declared with 1 length	0.3%	49.29kb
100% of java.nio.ByteBuffer[] contains 1 element only	0.1%	20.08kb

Who is holding Inefficient Object Arrays?

Object Tree	Percentage	size
j.u.Arrays\$ArrayList.a 🗹	2.6%	374K
javax.management.openmbean.TabularDataSupport.indexNamesArray.	0.3%	46K
sun.nio.ch.Util\$BufferCache.buffers. 🗹	0.1%	20K

How to fix Inefficient Object Arrays?

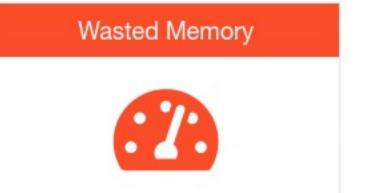
To see our recommendations, please purchase Enterprise Edition.

8. Inefficient Primitive Arrays

Learn more about Inefficient Primitive Arrays







26,602 118.44kb (0.8%)

▼ Top inefficient Primitive Arrays

Problem	Percentage	Wasted
< 0.1% of byte[] contains lot of 0s	0.3%	46.83kb
< 0.1% of byte[] contains no elements	0.2%	25.29kb
12% of char[] contains no elements	0.1%	16.84kb
9% of char[] contains lot of 0s	0.1%	16.51kb

? Who is holding Inefficient Primitive Arrays?

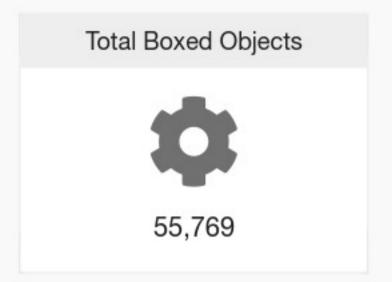
Object Tree	Percentage	size
java.io.BufferedWriter.cb 🗹	0.2%	31K
byte[] 🗹	0.2%	22K
java.nio.HeapByteBuffer.hb 🗹	0.1%	16K

How to fix Inefficient Primitive Arrays?

To see our recommendations, please purchase Enterprise Edition.

9. Boxed Numbers

Learn more about **Boxed Numbers**





▼ Top Boxed Numbers

Object	Percentage	size	count
j.l.Long	7.2%	1.04mb	54,480

Who is holding Boxed Numbers?

Object Tree	Percentage	size
{juTreeMap}.values ☑	6.8%	996к
{ju.TreeMap}.values.☑	0.5%	66K
{julinkedHashMap}keys.□	<0.1%	5K

To see our recommendations, please purchase Enterprise Edition.

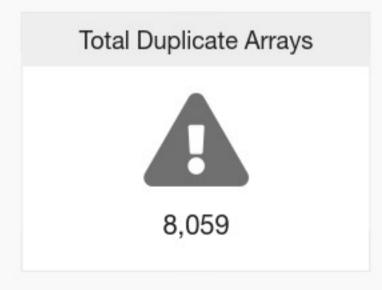
10. Duplicate Objects

Learn more about Duplicate Objects

Not Detected

11. Duplicate Primitive Arrays

Learn more about **Duplicate Primitive Arrays**





Types of Duplicate Arrays

Array Type	Percentage	Wasted	Duplicate Count	
byte[]	2.4%	355.73kb	7,578	

int[]	<0.1%	7.26kb	407	
long[]	<0.1%	2.19kb	47	
char[]	<0.1%	1.48kb	23	
short[]	<0.1%	240b	3	

Top Duplicate Arrays

Duplicate Array	Percentage	Wasted	Count
byte[19]('G', '1', ' ', 'Y', 'o', 'u', 'n', 'g', ' ', 'G', 'e', 'n', 'e', 'r', 'a', 't', 'i', 'o', 'n')	0.3%	39.1kb	1,002
byte[19]('G', '1', ' ', 'E', 'v', 'a', 'c', 'u', 'a', 't', 'i', 'o', 'n', ' ', 'P', 'a', 'u', 's', 'e')	0.3%	39.02kb	1,000
byte[15]('e', 'n', 'd', ' ', 'o', 'f', ' ', 'm', 'i', 'n', 'o', 'r', ' ', 'G', 'C')	0.2%	31.22kb	1,000
byte[8192](0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	0.1%	16.03kb	3
byte[5]('v', 'a', 'l', 'u', 'e')	<0.1%	7.55kb	323

Show all records >>

Who is holding Duplicate Arrays?

Object Tree	Percentage	size
byte[][][][]	0.3%	48K
{java.util.concurrent.ConcurrentHashMap}.values 🗹	0.3%	48K

< 0.1%

5K



To see our recommendations, please purchase Enterprise Edition.

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.

How to fix objects waiting for finalization?

To see our recommendations, please purchase Enterprise Edition.

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

Not reported in the heap dump.