1. Heap Statistics

Learn more about Heap Statistics

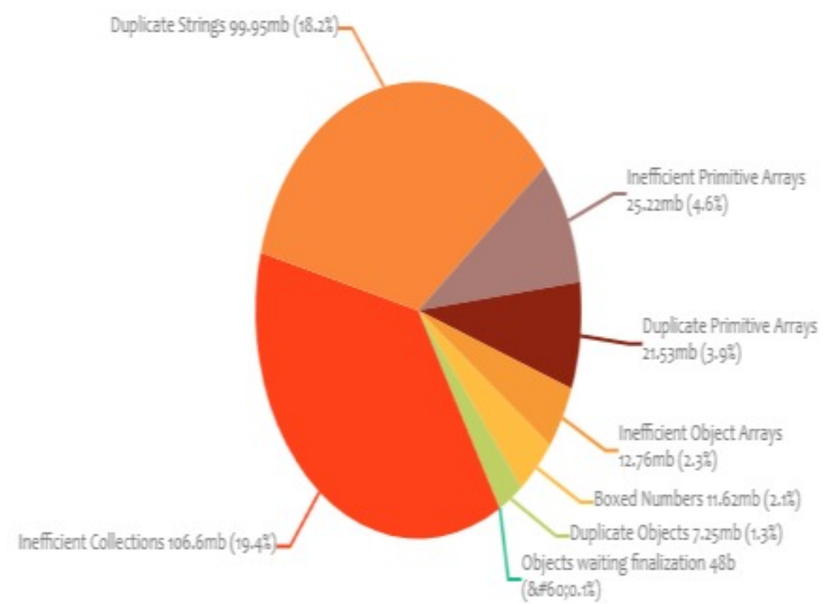
Total Size : 550.23mb

Class Count : 46,895

Object Count : 11,298,160

Thread Count : 127

Memory wasted: 284.94mb (52%)



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

Learn more about What's in Memory

Class	Percentage	Size	Count
String	28.9%	158.83mb	2,083,004

byte[]	14.5%	79.68mb	147,912
j.u.HashMap	11.0%	60.27mb	223,987
java.util.concurrent.ConcurrentHashMap	6.4%	35.38mb	130,858
j.u.LinkedHashMap	4.1%	22.36mb	82,282
j.u.ArrayList	2.6%	14.4mb	206,257

Show all records >>

3. Large objects

Learn more about Large Objects

Name	Percentage	Size
Java Static.java.lang.ref.Reference.pending	19.0%	104.64mb
Java Static.com.metaminds.sp.util.ServletContextUtil.servletContext	14.4%	78.99mb
Java Static.com.sun.xml.bind.v2.runtime.reflect.opt.AccessorInjector.CLASS_LOADER	13.1%	71.99mb
Java Static.com.metaminds.sp.helpers.MasterDataHelper.masterDataHelper	9.4%	51.83mb
Java Static.javax.net.ssl.SSLContext.defaultContext	6.7%	36.76mb
.. and 34846 more objects retaining 30.5mb (5.5%)		

Show all records >>

4. Object Headers

Learn more about Object Headers

Object Header Size	Total size of all headers
12b	129.3mb (23.5%)

Top Object Headers

Class	Percentage	Total header size	Avg obj size	Count
char[]	4.3%	23.9mb	59	2,088,847
String	4.3%	23.84mb	24	2,083,004
j.u.HashMap$Entry	1.0%	5.74mb	32	501,819
j.l.Double	0.8%	4.19mb	24	366,298
j.u.LinkedHashMap$Entry	0.8%	4.18mb	40	364,898

Show all records >>

How to fix excessive Object headers?

Please refer to our recommendations.

5. Duplicate Strings

Learn more about Duplicate Strings

Total Strings	Unique Strings	Wasted Memory
2,083,004	512,843	99.95mb (18.2%)

Top Duplicate Strings

Duplicate String	Percentage	Wasted	Count
"USD"	0.4%	2.16mb	47,243
"AAQ;ABU;ADH;AER;AHI;AKX;AKY;ALA;AMI;AMQ;AMV;AOR;AOU;AQG;ARD;ARH;ASB;ASF;AYK;AYW;AZN;BAV;BBM;BBN;BCD;BCH;BCX;BDJ;BDO;BEJ;BFV;...[length 2339]"	0.3%	1.59mb	354
""	0.3%	1.54mb	40,338
"US"	0.3%	1.53mb	33,379
"**"	0.3%	1.49mb	32,529

Show all records >>

Who is holding Duplicate Strings?

Object Tree	Percentage	size
{j.u.HashMap}.values	0.8%	4,390K
com.metaminds.sp.vo.InternationalFareCachingVO.destination	0.5%	2,726K
java.net.URL.file	0.5%	2,566K
com.metaminds.sp.vo.InternationalFareCachingVO.contractName	0.4%	2,489K
com.metaminds.sp.vo.HotelLocationVO.hotelLocationCountry	0.4%	2,340K

Show all records >>

How to fix Duplicate Strings?

Please refer to our recommendations.

6. Inefficient collections

Learn more about Inefficient Collections

Total Collections	Inefficient collections	Wasted Memory

708,121

658,292

106.6mb (19.4%)

Top inefficient collections

Problem	Percentage	Wasted
58% of j.u.HashMap contains no elements	6.1%	33.51mb
80% of java.util.concurrent.ConcurrentHashMap contains no elements	4.1%	22.39mb
15% of java.util.concurrent.ConcurrentHashMap contains 2 - 4 elements only	1.4%	7.51mb
20% of j.u.HashMap contains 1 element only	1.3%	7.26mb
39% of j.u.ArrayList contains 1 element only	1.0%	5.35mb

Show all records »

Who is holding Inefficient Collections?

Object Tree	Percentage	size
org.apache.axis2.description.ParameterIncludeImpl.parameters	1.0%	5,448K
org.apache.catalina.startup.ContextConfig.javaClassCache	0.7%	4,096K
org.apache.axis2.description.AxisBindingMessage.children	0.7%	3,720K
org.apache.axis2.description.PolicySubject.attachedPolicyComponents	0.7%	3,720K
org.apache.axis2.description.AxisBindingOperation.children	0.6%	3,145K

Show all records »

How to fix Inefficient Collections?

Please refer to our recommendations.

7. Inefficient Object Arrays

Learn more about Inefficient Object Arrays

Total Object Arrays	Inefficient Object Arrays	Wasted Memory
1,218,177	299,811	12.76mb (2.3%)

Top inefficient Object Arrays

Problem	Percentage	Wasted
1% of Object[] contains no elements	0.6%	3.05mb
3% of Object[] contains 1 element only	0.5%	2.52mb
63% of String[] declared with 1 length	0.2%	1.29mb

18% of Object[] declared with 0 length	0.2%	964.17kb
< 0.1% of Object[] contains half empty elements	0.1%	779.32kb

Show all records >>

Who is holding Inefficient Object Arrays?

Object Tree	Percentage	size
io.netty.util.internal.MpscArrayQueue.buffer	0.4%	2,247K
io.netty.util.internal.MpscArrayQueue.buffer	0.4%	2,245K
java.lang.reflect.Method.parameterTypes	<0.1%	403K

How to fix Inefficient Object Arrays?

Please refer to our recommendations.

8. Inefficient Primitive Arrays

Learn more about Inefficient Primitive Arrays

Total Primitive Arrays	Inefficient Primi Arrays	Wasted Memory

2,394,169	78,316	25.22mb (4.6%)

Top inefficient Primitive Arrays

Problem	Percentage	Wasted
2% of byte[] contains lot of 0s	2.4%	13.31mb
1% of byte[] contains no elements	0.8%	4.24mb
< 0.1% of char[] contains no elements	0.5%	2.56mb
1% of int[] contains no elements	0.2%	1.33mb
3% of int[] contains half empty elements	0.2%	1.16mb

Show all records >>

Who is holding Inefficient Primitive Arrays?

Object Tree	Percentage	size
java.nio.HeapByteBuffer.hb	0.3%	1,816K
sun.security.ssl.OutputRecord.buf	0.3%	1,788K
sun.security.ssl.InputRecord.buf	0.3%	1,765K
java.nio.HeapByteBuffer.hb	0.3%	1,733K
java.nio.HeapByteBuffer.hb	0.3%	1,703K

Show all records >>

How to fix Inefficient Primitive Arrays?

Please refer to our recommendations.

9. Boxed Numbers

Learn more about Boxed Numbers

Total Boxed Objects	Wasted Memory
668,003	11.62mb (2.1%)

Top Boxed Numbers

Object	Percentage	size	count
j.l.Double	1.3%	6.99mb	366,298
j.l.Integer	0.8%	4.4mb	288,466

Who is holding Boxed Numbers?

Object Tree	Percentage	size
{j.u.TreeMap}.keys	0.1%	589K
com.metaminds.sp.vo.InternationalFareCachingVO.markUp	<0.1%	362K
com.metaminds.sp.vo.InternationalFareCachingVO.netFare	<0.1%	362K

How to fix Boxed Numbers?

Please refer to our recommendations.

10. Duplicate Objects

Learn more about Duplicate Objects

Total Duplicate Objects	Wasted Memory
237,679	7.25mb (1.3%)

Types of Duplicate Objects

Object	Percentage	Wasted	Duplicate Count
java.util.concurrent.locks.ReentrantLock$NonfairSync	1.3%	7.25mb	237,679

Top Duplicate Objects

Duplicate Object	Percentage	Wasted	Count
java.util.concurrent.locks.ReentrantLock$NonfairSync(exclusiveOwnerThread : null, head : null, tail : null, state : 0)	1.3%	7.25mb	237,680

Who is holding Duplicate Objects?

Object Tree	Percentage	size
java.util.concurrent.locks.ReentrantLock.sync	<0.1%	127K
java.util.concurrent.locks.ReentrantLock.sync	<0.1%	121K
java.util.concurrent.locks.ReentrantLock.sync	<0.1%	97K

How to fix Duplicate Objects?

Please refer to our recommendations.

11. Duplicate Primitive Arrays

Learn more about Duplicate Primitive Arrays

Total Duplicate Arrays

Wasted Memory

186,656

21.53mb (3.9%)

Types of Duplicate Arrays

Array Type	Percentage	Wasted	Duplicate Count
byte[]	2.2%	11.92mb	67,607
int[]	0.9%	5.03mb	60,491
char[]	0.5%	2.9mb	5,305
short[]	0.2%	1.1mb	40,135
boolean[]	<0.1%	540.69kb	12,644

Show all records »

Top Duplicate Arrays

Duplicate Array	Percentage	Wasted	Count
byte[8000](0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...)	0.6%	3.46mb	454
byte[15812](-19, 91, -35, 114, 27, -73, 21, -66, -114, -97, 2, -27, 77, -109, -87, -72, 76, -46, -103, 92, ...)	0.4%	1.98mb	132
byte[8000](-3, 0, 0, -7, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...)	0.3%	1.62mb	213
int[4096](0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...)	0.2%	1.24mb	80

char[8192](,,,

48b (<0.1%)

What are the objects waiting for finalization?

To see objects waiting for finalization, click here

How to fix objects waiting for finalization?

Please refer to our recommendations.

13. Threads

Learn more about Threads

To view all threads stacktrace click here

14. Heap settings

Learn more about Heap Settings

No major recommendations.

15. System Properties

Learn more about System Properties

Key	Value
ENABLE_NOSQL_FAREDATA	true
MondeePayEnv	PROD
awt.toolkit	sun.awt.X11.XToolkit
catalina.base	/home/mondee/TPBE1
catalina.home	/home/mondee/TPBE1

Show all records >>