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▼ **Description**










One instance of "**java.util.TaskQueue**" loaded by "**<system class loader>**" occupies **10,992,952 (30.39%)** bytes. The instance is referenced by **org.jivesoftware.openfire.pep.PEPService @ 0x50541992** , loaded by "**org.jivesoftware.openfire.starter.JiveClassLoader @ 0x500006d7**". The memory is accumulated in one instance of "**java.util.TimerTask[]**" loaded by "**<system class loader>**".

Keywords
 java.util.TaskQueue
 java.util.TimerTask[]
 org.jivesoftware.openfire.starter.JiveClassLoader @ 0x500006d7

▼ **Shortest Paths To the Accumulation Point**


Class Name	Shallow Heap	Retained Heap
 java.util.TimerTask[105] @ 0x5001c316	432	10,992,936
 queue java.util.TaskQueue @ 0x5001c311 Busy Monitor	16	10,992,952

▼ **Accumulated Objects**

Class Name	Shallow Heap	Retained Heap	Percentage
 java.util.TaskQueue @ 0x5001c311	16	10,992,952	30.39%
 java.util.TimerTask[105] @ 0x5001c316	432	10,992,936	30.39%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50035f64	56	787,624	2.18%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50066371	56	586,240	1.62%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x500cd694	56	518,776	1.43%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50091ba9	56	459,584	1.27%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5009150c	56	406,648	1.12%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5018e98a	56	361,456	1.00%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5007ecb2	56	320,352	0.89%
 org.jivesoftware.openfire.pep.PEPService\$1 @	56	301,328	0.83%

0x500248c9			
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5006e7fa	56	296,344	0.82%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50091a26	56	291,544	0.81%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5009973d	56	281,504	0.78%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5014cb73	56	275,000	0.76%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5005e596	56	259,608	0.72%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5000b16b	56	254,432	0.70%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5001c474	56	243,784	0.67%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50183555	56	242,192	0.67%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x501d5d43	56	237,736	0.66%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5006a35a	56	235,464	0.65%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50153538	56	224,216	0.62%
 org.jivesoftware.openfire.pep.PEPService\$1 @ 0x501d3c41	56	220,800	0.61%
 Total: 20 entries	1,120	6,804,632	0.188

▼ **Accumulated Objects by Class**

Label	Number of Objects	Used Heap Size	Retained Heap Size
 org.jivesoftware.openfire.pep.PEPService\$1 First 10 of 51 objects	51	2,856	10,992,504

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▼ **Description**

52 instances of "**org.jivesoftware.openfire.pep.PEPService**", loaded by "**org.jivesoftware.openfire.starter.JiveClassLoader @ 0x500006d7**" occupy **11,170,680 (30.89%)** bytes.

Biggest instances:








- org.jivesoftware.openfire.pep.PEPService @ 0x501dc4a2 - 785,472 (2.17%) bytes.
- org.jivesoftware.openfire.pep.PEPService @ 0x5010d678 - 585,096 (1.62%) bytes.
- org.jivesoftware.openfire.pep.PEPService @ 0x50096210 - 517,648 (1.43%) bytes.
- org.jivesoftware.openfire.pep.PEPService @ 0x503c1420 - 458,368 (1.27%) bytes.
- org.jivesoftware.openfire.pep.PEPService @ 0x501b0d8f - 405,864 (1.12%) bytes.

These instances are referenced from one instance of "**java.util.TimerTask[]**", loaded by "**<system class loader>**"






Keywords

org.jivesoftware.openfire.pep.PEPService
 java.util.TimerTask[]
 org.jivesoftware.openfire.starter.JiveClassLoader @ 0x500006d7

▼ **Common Path To the Accumulation Point**

Class Name	Ref. Objects	Shallow Heap	Ref. Shallow Heap	Retained Heap
 java.util.TaskQueue @ 0x5001c311 Busy Monitor	52	16	3,328	10,992,952
 queue java.util.TimerTask[105] @ 0x5001c316	52	432	3,328	10,992,936
 [51] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x501616e4 »	1	56	64	64
 [35] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5042f4c4 »	1	56	64	64
 [89] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50487e01 »	1	56	64	64
 [69] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50443a2b »	1	56	64	64
 [14] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5002823c »	1	56	64	64

[47] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5008fef1 »	1	56	64	64
[82] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50502a96 »	1	56	64	64
[2] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x500086f7 »	1	56	64	64
[53] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x501dc4e3 »	1	56	64	64
[68] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x504ce521 »	1	56	64	64
[27] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50102d18 »	1	56	64	64
[28] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5036fec1 »	1	56	64	64
[39] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5049bf9f »	1	56	64	64
[17] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x503fd5b0 »	1	56	64	64
[45] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x500b5fae »	1	56	64	64
[19] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5046ecd6 »	1	56	64	64
[42] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50515a5e »	1	56	64	64
[70] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5043ef8f »	1	56	64	64
[26] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x500a2ee5 »	1	56	64	64
[103] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x501a008e »	1	56	64	64
[102]	1	56	64	64

org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50174ebf »				
 [66] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x505419c6 »	1	56	64	64
 [90] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x5048fc1f »	1	56	64	64
 [94] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x50096252 »	1	56	64	64
 [62] org.jivesoftware.openfire.pep.PEPService\$1 @ 0x503b9ad5 »	1	56	64	64
 Total: 25 of 52 entries	52	2,912	3,328	

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▼ **Description**

4,523 instances of "**java.lang.Class**", loaded by "**<system class loader>**" occupy **9,301,824 (25.72%)** bytes.


Biggest instances:

- class java.lang.ref.Finalizer @ 0x50000101 - 2,891,624 (7.99%) bytes.
- class java.util.ResourceBundle @ 0x5000b616 - 1,890,344 (5.23%) bytes.
- class org.jivesoftware.openfire.pubsub.PubSubPersistenceManager @ 0x50003657 - 1,829,480 (5.06%) bytes.
- class org.jivesoftware.openfire.nio.ConnectionHandler @ 0x50078eb6 - 592,920 (1.64%) bytes.

Keywords

java.lang.Class

▼ **Reference Pattern**

Class Name	Shallow Heap	Retained Heap	Percentage
 class java.lang.Class @ 0x500000a8	40	256	0.00%

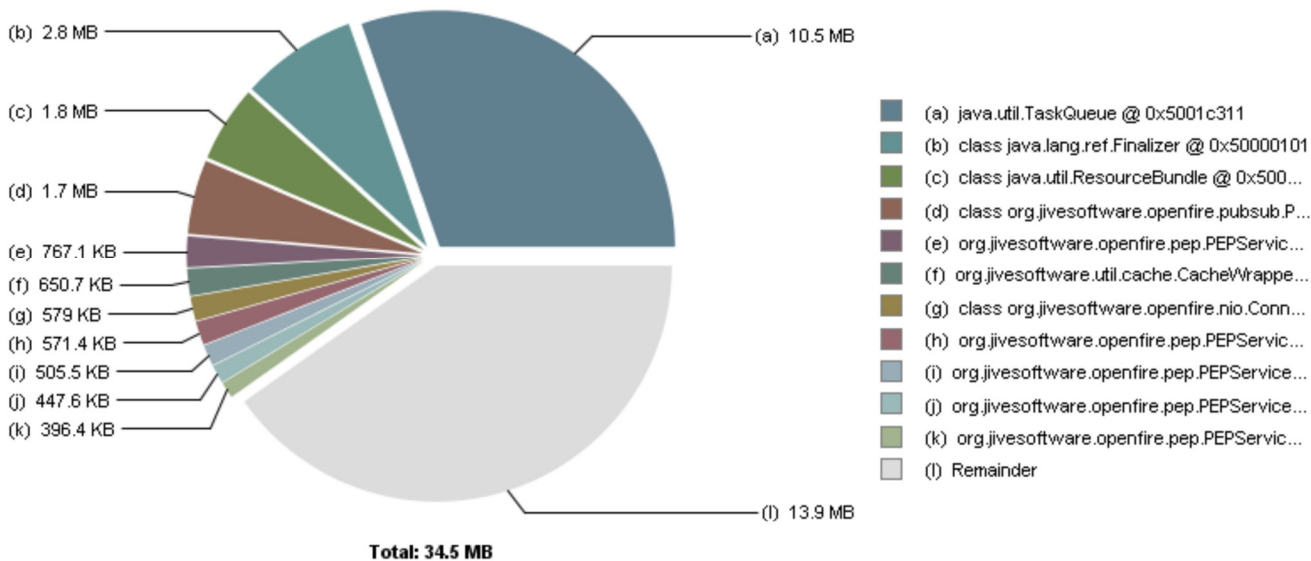
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[Top Consumers](#)

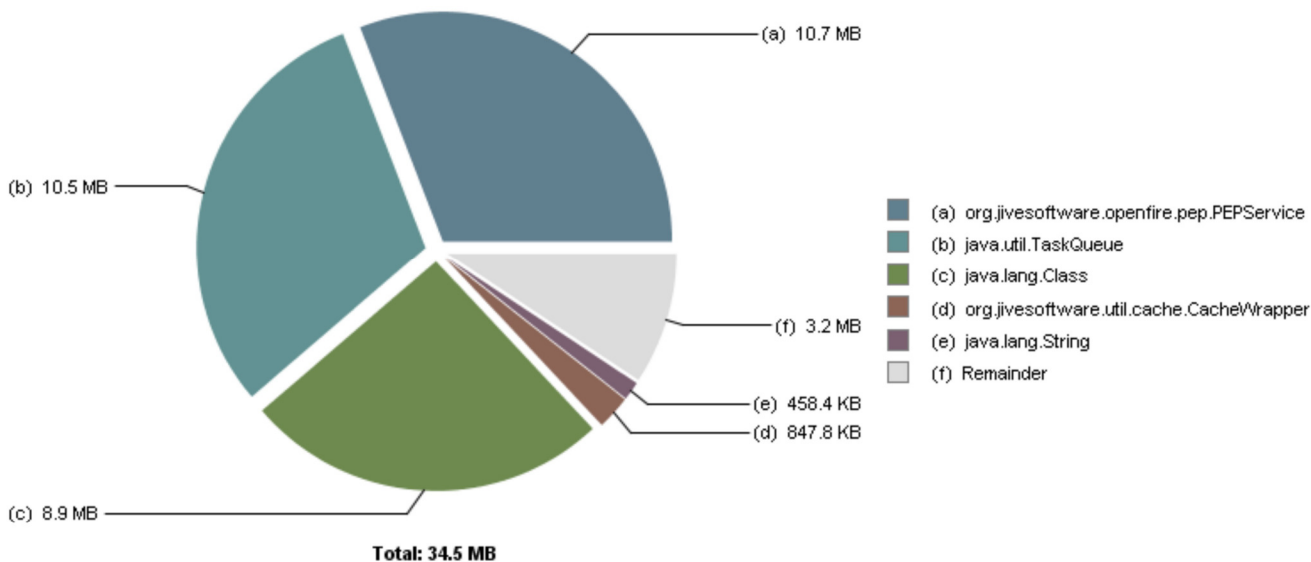
Top Consumers

▼ **Biggest Objects (Overview)**



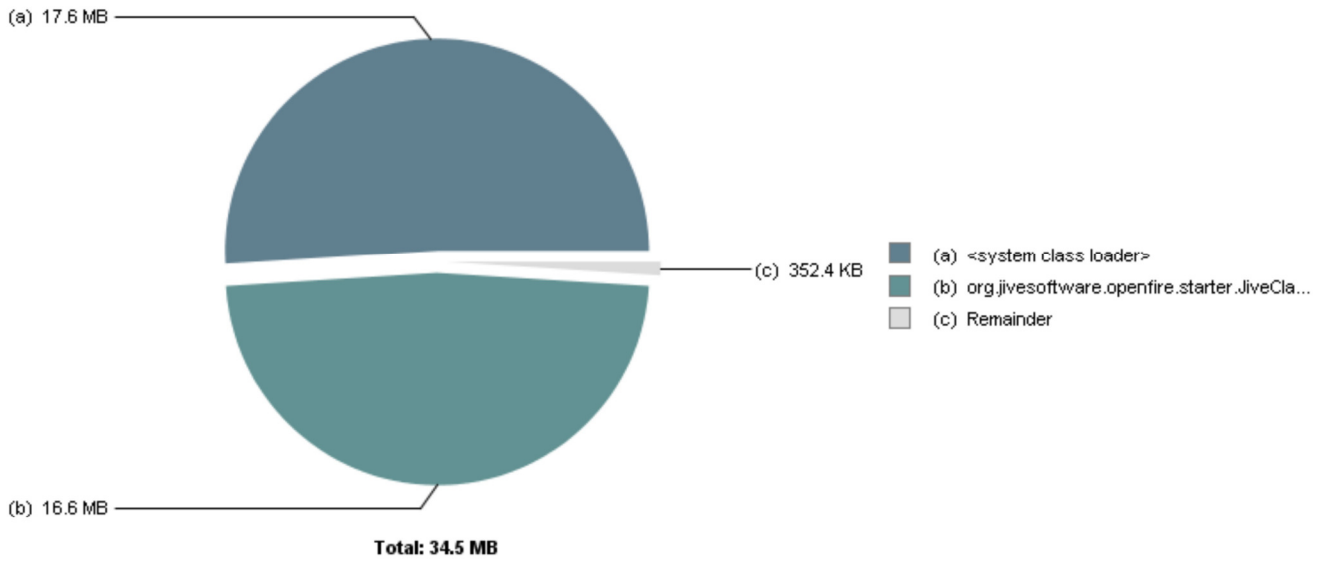
▶ **Biggest Objects**

▼ **Biggest Top-Level Dominator Classes (Overview)**



▶ **Biggest Top-Level Dominator Classes**

▼ **Biggest Top-Level Dominator Class Loaders (Overview)**



▶ **Biggest Top-Level Dominator Class Loaders**

▼ **Biggest Top-Level Dominator Packages**

Package	Retained Heap	Retained Heap, %	# Top Dominators
<all>	36,168,256	100.00%	12,972
└─ java	17,150,320	47.42%	7,224
└─ util	13,430,920	37.13%	799
└─ TaskQueue	10,993,048	30.39%	4
└─ ResourceBundle	1,890,344	5.23%	1
└─ Total: 2 entries	12,883,392		5
└─ lang	3,550,848	9.82%	5,643
└─ ref	2,892,336	8.00%	24
└─ Finalizer	2,891,624	7.99%	1
└─ String	469,456	1.30%	5,105
└─ Total: 2 entries	3,361,792		5,129
└─ Total: 2 entries	16,981,768		6,442
└─ org	16,631,056	45.98%	3,083
└─ jivesoftware	15,388,504	42.55%	932
└─ openfire	14,379,288	39.76%	782
└─ pep	11,400,384	31.52%	111
└─ PEPService	11,170,688	30.89%	53
└─ pubsub	1,834,824	5.07%	48

PubSubPersistenceManager	1,829,480	5.06%	1
nio	593,280	1.64%	15
ConnectionHandler	592,920	1.64%	1
Total: 3 entries	13,828,488		174
util	916,056	2.53%	125
cache	886,200	2.45%	55
CacheWrapper	868,144	2.40%	35
Total: 2 entries	15,295,344		907
sun	1,166,432	3.23%	1,314
security	536,336	1.48%	441
com	514,720	1.42%	454
sun	512,880	1.42%	380
Total: 4 entries	35,462,528		12,075

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openfire.hprof.bin			
i Overview default_report org.eclipse.mat.api:top_components dominator_tree			
Class Name	Shallow Heap	Retained ...	Percentage
<Regex>	<Numeric>	<Numeric>	<Numeric>
java.util.TaskQueue @ 0x5001c311 Busy Monitor	16	10,992,952	30.39%
class java.lang.ref.Finalizer @ 0x50000101 Unknown, System Class, Native Stack	16	2,891,624	7.99%
class java.util.ResourceBundle @ 0x5000b616 System Class, Native Stack	24	1,890,344	5.23%
class org.jivesoftware.openfire.pubsub.PubSubPersistenceManager @ 0x50003657 Native Stack	128	1,829,480	5.06%
org.jivesoftware.openfire.pep.PEPService @ 0x501dc4a2	64	785,472	2.17%
org.jivesoftware.util.cache.CacheWrapper @ 0x50047219	16	666,344	1.84%
class org.jivesoftware.openfire.nio.ConnectionHandler @ 0x50078eb6 Native Stack	32	592,920	1.64%
org.jivesoftware.openfire.pep.PEPService @ 0x5010d678	64	585,096	1.62%
org.jivesoftware.openfire.pep.PEPService @ 0x50096210	64	517,648	1.43%
org.jivesoftware.openfire.pep.PEPService @ 0x503c1420	64	458,368	1.27%
org.jivesoftware.openfire.pep.PEPService @ 0x501b0d8f	64	405,864	1.12%
org.jivesoftware.openfire.pep.PEPService @ 0x501f869c	64	355,104	0.98%
org.jivesoftware.openfire.vcard.VCardManager @ 0x50049f56	24	325,672	0.90%
org.jivesoftware.openfire.pep.PEPService @ 0x503714ab	64	319,976	0.88%
org.bouncycastle.jce.provider.BouncyCastleProvider @ 0x500241f6	88	307,384	0.85%
org.jivesoftware.openfire.pep.PEPService @ 0x503fd57c	64	300,784	0.83%
org.jivesoftware.openfire.pep.PEPService @ 0x50174e7a	64	295,112	0.82%
org.jivesoftware.openfire.pep.PEPService @ 0x50541992	64	290,168	0.80%
org.jivesoftware.openfire.pep.PEPService @ 0x504af623	64	280,512	0.78%
org.jivesoftware.openfire.pep.PEPService @ 0x5046eca2	64	273,888	0.76%
org.jivesoftware.openfire.pep.PEPService @ 0x500c69ad	64	259,544	0.72%
org.jivesoftware.openfire.pep.PEPService @ 0x50036d7b	64	253,824	0.70%
java.util.jar.JarFile @ 0x50000a2b	56	248,568	0.69%
org.jivesoftware.openfire.pep.PEPService @ 0x5043ef5b	64	246,000	0.68%
org.jivesoftware.openfire.pep.PEPService @ 0x50082ad6	64	240,984	0.67%
org.jivesoftware.openfire.pep.PEPService @ 0x503a4d88	64	236,528	0.65%
org.jivesoftware.openfire.pep.PEPService @ 0x50530246	64	234,792	0.65%
org.jivesoftware.openfire.pep.PEPService\$1 @ 0x500daf4a Java Local	56	226,352	0.63%
org.jivesoftware.openfire.pep.PEPService @ 0x5041945e	64	226,000	0.62%
org.jivesoftware.openfire.pep.PEPService @ 0x5042f490	64	222,808	0.62%
org.jivesoftware.openfire.pep.PEPService @ 0x5049bf6b	64	219,648	0.61%
org.jivesoftware.openfire.pep.PEPService @ 0x50502a62	64	217,352	0.60%
org.jivesoftware.openfire.pep.PEPService @ 0x504f0573	64	208,200	0.58%
org.jivesoftware.openfire.pep.PEPService @ 0x501a279c	64	207,864	0.57%
org.jivesoftware.openfire.pep.PEPService @ 0x503eb8ef	64	206,208	0.57%
org.jivesoftware.openfire.pep.PEPService @ 0x504db28c	64	204,384	0.57%
class com.sun.syndication.fetcher.impl.HashMapFeedInfoCache @ 0x50308e86 Native Stack	16	202,560	0.56%
org.jivesoftware.openfire.pep.PEPService @ 0x504439f7	64	201,136	0.56%
org.jivesoftware.openfire.pep.PEPService @ 0x50391ff0	64	197,592	0.55%
Total: 39 of 12,972 entries			

Class Name	Objects	Shallow Heap	Retained Heap
<Regex>	<Numeric>	<Numeric>	<Numeric>
char[]	150,795	16,672,776	>= 16,672,776
java.lang.String	211,995	5,087,880	>= 16,913,320
byte[]	10,725	1,541,968	>= 1,541,968
java.util.HashMap\$Entry	52,257	1,254,168	>= 4,326,016
org.dom4j.tree.DefaultDocument	28,265	1,130,600	>= 2,262,512
org.xmlpp.packet.JID	37,760	906,240	>= 5,895,832
org.jivesoftware.openfire.pubsub.PublishedItem	28,211	902,752	>= 16,389,664
java.util.ArrayList	35,055	841,320	>= 3,664,736
java.lang.Object[]	37,060	756,760	>= 3,374,528
java.util.Date	29,086	698,064	>= 699,560
org.dom4j.tree.DefaultElement	28,756	690,144	>= 4,863,504
java.util.HashMap\$Entry[]	4,453	555,080	>= 4,806,888
int[]	2,679	321,032	>= 321,032
java.util.concurrent.ConcurrentHashMap\$HashEntry	13,236	317,664	>= 12,699,584
net.sourceforge.jtids.util.BlobBuffer	6,611	317,328	>= 1,291,872
java.lang.ref.Finalizer	9,130	292,160	>= 2,891,624
net.sourceforge.jtids.jdbc.ColInfo	2,706	216,480	>= 418,456
org.jivesoftware.openfire.pubsub.NodeSubscription	2,833	181,312	>= 1,033,272
java.util.HashMap	4,376	175,040	>= 4,828,416
java.util.concurrent.ConcurrentHashMap\$Segment	5,260	168,320	>= 13,131,312
java.util.concurrent.ConcurrentHashMap\$HashEntry[]	5,260	160,784	>= 12,854,512
java.util.concurrent.locks.ReentrantLock\$NonfairSync	6,083	145,992	>= 146,352
java.util.Hashtable\$Entry	4,656	111,744	>= 449,576
java.util.LinkedHashMap\$Entry	3,261	104,352	>= 233,864
com.sun.org.apache.xerces.internal.xni.QName	3,844	92,256	>= 92,256
java.lang.reflect.Method	1,027	82,160	>= 102,512
java.util.LinkedList	3,358	80,592	>= 132,352
org.jivesoftware.openfire.pubsub.NodeAffiliate	2,833	67,992	>= 437,400
net.sourceforge.jtids.jdbc.JtidsStatement	753	66,264	>= 84,408
org.jivesoftware.openfire.roster.RosterItem	1,314	63,072	>= 502,944
java.util.concurrent.ConcurrentHashMap\$Segment[]	1,345	60,568	>= 14,129,064
net.sourceforge.jtids.jdbc.JtidsPreparedStatement	489	54,768	>= 67,136
java.util.concurrent.ConcurrentHashMap	1,345	53,800	>= 14,184,032
java.lang.Object	6,391	51,128	>= 51,128
java.util.HashSet	3,092	49,472	>= 546,616
java.lang.String[]	1,576	48,448	>= 140,000
java.util.Hashtable\$Entry[]	519	47,864	>= 498,528
java.util.HashMap\$KeySet	2,876	46,016	>= 46,016
java.lang.Class	4,523	41,864	>= 9,302,080
java.util.LinkedList\$Node	1,580	37,920	>= 51,696
com.sun.org.apache.xerces.internal.util.SymbolTable\$Entry[]	58	36,944	>= 71,768
org.logicalcobwebs.cglib.asm.Label	728	34,944	>= 65,696
com.sun.org.apache.xerces.internal.util.XMLStringBuffer	1,392	33,408	>= 1,303,960
java.security.Provider\$Service	580	32,480	>= 66,440
com.sun.org.apache.xerces.internal.xni.XMLString	1,276	30,624	>= 30,624
org.dom4j.tree.DefaultAttribute	1,171	28,104	>= 56,504
java.security.Provider\$ServiceKey	1,130	27,120	>= 31,696
Total: 47 of 4,513 entries	812,160	36,168,256	

▼ Duplicate Strings

Found 357 occurrences of char[] with at least 10 instances having identical content. Total size is 3,305,264 bytes.

Top elements include:

- 13,666 x (120 bytes)

- 751 x [redacted]
- 641 x [redacted]
- 559 x [redacted]
- 475 x [redacted]

Elements were user sessions

[Details >>](#)

▶ Empty Collections

▶ Collection Fill Ratios

▼ Miscellaneous

▼ Soft Reference Statistics

A total of 733 java.lang.ref.SoftReference objects have been found, which softly reference 524 objects. 42,608 objects totalling 2 MB are retained (kept alive) only via soft references. No objects totalling 0 B are softly referenced and also strongly retained (kept alive) via soft references.

[Details >>](#)

▼ Weak Reference Statistics

A total of 645 java.lang.ref.WeakReference objects have been found, which weakly reference 134 objects. No objects totalling 0 B are retained (kept alive) only via weak references. No objects totalling 0 B are weakly referenced and also strongly retained (kept alive) via weak references.

[Details >>](#)

▼ Finalizer Statistics

A total of 9,122 objects implement the finalize method.

[Details >>](#)

▼ Map Collision Ratios

Detected the following maps with collision ratios above 80%:

- 4 instances of java.util.concurrent.ConcurrentHashMap\$Segment retain \geq 640 bytes.