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 ▼ **Description**

One instance of "java.util.WeakHashMap" loaded by "<system class loader>" occupies **1,788,579,160 (83.96%)** bytes. The instance is referenced by **org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e86c28 http-thread-pool::http-listener-2(1)**, loaded by "org.apache.felix.framework.BundleWiringImpl\$BundleClassLoader @ 0x82368338".

The thread **org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e86c28 http-thread-pool::http-listener-2(1)** keeps local variables with total size **246,592 (0.01%)** bytes.

The memory is accumulated in one instance of "java.util.TreeMap\$Entry", loaded by "<system class loader>", which occupies **1,786,697,736 (83.87%)** bytes.

The stacktrace of this Thread is available. [See stacktrace.](#)

Keywords

- java.util.WeakHashMap
- org.apache.felix.framework.BundleWiringImpl\$BundleClassLoader @ 0x82368338
- java.util.TreeMap\$Entry

▼ **Shortest Paths To the Accumulation Point** 🗺️

Class Name	Shallow Heap	Retained Heap
java.util.TreeMap\$Entry @ 0x8dd0dd08	40	1,786,697,736
root java.util.TreeMap @ 0x8dd0dcd8	48	1,786,697,800
streamsMap org.glassfish.grizzly.http2.Http2Session @ 0x8dd097a8	160	1,786,708,000
http2Session org.glassfish.grizzly.http2.Http2State @ 0x8dd09be0	32	1,786,708,152
[2] java.lang.Object[7] @ 0x8dd09b90	48	1,786,742,296
values org.glassfish.grizzly.attributes.IndexedAttributeHolder\$Snapshot @ 0x8dd09b78	24	1,786,742,464
state org.glassfish.grizzly.attributes.IndexedAttributeHolder @ 0x8dd09b48	32	1,786,742,528
attributes org.glassfish.grizzly.nio.transport.TCPNIOConnection @ 0x8dd09848	136	1,786,745,864
value java.util.WeakHashMap\$Entry @ 0x8d75e7a8	40	1,786,750,232
next java.util.WeakHashMap\$Entry @ 0xfecdc20	40	1,786,752,600
[121] java.util.WeakHashMap\$Entry[1024] @ 0xff9ac188	4,112	1,788,579,064
table java.util.WeakHashMap @ 0x83407000	48	1,788,579,160
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e86c28 http-thread-pool::http-listener-2(1) Thread	136	246,592
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e870d0 http-thread-pool::http-listener-2(2) Thread	136	296,464
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e93178 http-thread-pool::http-listener-2(7) Thread	136	100,944
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e935c0 http-thread-pool::http-listener-2(8) Thread	136	219,264
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e93a08 http-thread-pool::http-listener-2(3) Thread	136	168,984
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e94158 http-thread-pool::http-listener-2(4) Thread	136	112,728
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e94510 http-thread-pool::http-listener-2(9) Thread	136	354,240
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e94958 http-thread-pool::http-listener-2(5) Thread	136	169,920
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x834d93f8 http-thread-pool::http-listener-2(10) Thread	136	350,664
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x834d9800 http-thread-pool::http-listener-2(11) Thread	136	173,496
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x89977c30 http-thread-pool::http-listener-2(12) Thread	136	438,488
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ab77730 http-thread-pool::http-listener-2(25) Thread	136	179,936
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ac95a58 http-thread-pool::http-listener-2(22) Thread	136	164,928
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ac95c10 http-thread-pool::http-listener-2(23) Thread	136	172,784
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ac95dc8 http-thread-pool::http-listener-2(24) Thread	136	164,616
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ac96e30 http-thread-pool::http-listener-2(26) Thread	136	214,200
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8bad4b80 http-thread-pool::http-listener-2(27) Thread	136	164,352
	136	248,080

Class Name	Shallow Heap	Retained Heap
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ceb7e90 http-thread-pool::http-listener-2(20) Thread		
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ceb9b30 http-thread-pool::http-listener-2(14) Thread	136	203,336
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ceb9ce8 http-thread-pool::http-listener-2(15) Thread	136	215,320
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ceba210 http-thread-pool::http-listener-2(18) Thread	136	172,896
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x8ceba3c8 http-thread-pool::http-listener-2(21) Thread	136	217,800
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0xb70ca940 http-thread-pool::http-listener-2(31) Thread	136	100,832
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0xb70caaf8 http-thread-pool::http-listener-2(32) Thread	136	337,904
<Java Local> org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0xb70cacb0 http-thread-pool::http-listener-2(33) Thread	136	171,120
Total: 25 of 30 entries; 5 more		

Accumulated Objects in Dominator Tree

Class Name	Shallow Heap	Retained Heap	Percentage
java.util.WeakHashMap @ 0x83407000	48	1,788,579,160	83.96%
java.util.WeakHashMap\$Entry[10241] @ 0xff9ac188	4,112	1,788,579,064	83.96%
java.util.WeakHashMap\$Entry @ 0xfecdc20	40	1,786,752,600	83.87%
java.util.WeakHashMap\$Entry @ 0x8d75e7a8	40	1,786,750,232	83.87%
org.glassfish.grizzly.nio.transport.TCPNIOConnection @ 0x8dd09848	136	1,786,745,864	83.87%
org.glassfish.grizzly.attributes.IndexedAttributeHolder @ 0x8dd09b48	32	1,786,742,528	83.87%
org.glassfish.grizzly.attributes.IndexedAttributeHolder\$Snapshot @ 0x8dd09b78	24	1,786,742,464	83.87%
java.lang.Object[71] @ 0x8dd09b90	48	1,786,742,296	83.87%
org.glassfish.grizzly.http2.Http2State @ 0x8dd09be0	32	1,786,708,152	83.87%
org.glassfish.grizzly.http2.Http2Session @ 0x8dd097a8	160	1,786,708,000	83.87%
java.util.TreeMap @ 0x8dd0dcd8	48	1,786,697,800	83.87%
java.util.TreeMap\$Entry @ 0x8dd0dd08	40	1,786,697,736	83.87%
org.glassfish.grizzly.http2.Http2Session @ 0xa8b18348	160	1,635,448	0.08%
org.glassfish.grizzly.http.server.Response @ 0xbe269430	80	1,526,312	0.07%
java.util.TreeMap\$Entry @ 0x8f3a1ca0	40	1,433,264	0.07%
org.glassfish.grizzly.http.server.Response @ 0xa484dfc0	80	1,319,576	0.06%
org.glassfish.grizzly.http2.Http2Session @ 0xf0dd6190	160	1,233,616	0.06%
org.glassfish.grizzly.http2.Http2Session @ 0xc56ac4e0	160	1,232,752	0.06%
org.glassfish.grizzly.http2.Http2Session @ 0xed5a6bb8	160	1,203,952	0.06%
org.glassfish.grizzly.http2.Http2Stream @ 0x8dd0dd30	80	1,165,728	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xe6cbac70	160	1,101,944	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xca70e608	160	1,088,248	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xc0b04f10	160	1,082,728	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0x8dbb5840	160	1,065,248	0.05%
org.glassfish.grizzly.http.server.Response @ 0xccef220	80	1,057,864	0.05%
org.glassfish.grizzly.http.server.Response @ 0xecdfa828	80	1,047,160	0.05%
org.glassfish.grizzly.http.server.Response @ 0xb54a78d0	80	1,037,400	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xf4d4f68	160	1,031,544	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xaeac0f0	160	999,168	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xa84a83b8	160	998,584	0.05%
org.glassfish.grizzly.http.server.Response @ 0xe77d4e40	80	978,848	0.05%
org.glassfish.grizzly.http2.Http2Session @ 0xe273bc08	160	976,792	0.05%
Total: 20 entries			
	2,520	23,216,176	1.09%

Accumulated Objects by Class in Dominator Tree

Label	Number of Objects	Used Heap Size	Retained Heap Size
org.glassfish.grizzly.http2.Http2Request First 10 of 26,590 objects	26,590	4,679,840	570,048,272
org.glassfish.grizzly.http.server.Response First 10 of 9,093 objects	9,093	727,440	540,311,600
org.glassfish.grizzly.http2.Http2Session First 10 of 2,628 objects	2,628	420,480	502,910,224
org.glassfish.grizzly.http.server.Request First 10 of 9,093 objects	9,093	1,382,136	69,655,488
org.glassfish.grizzly.http.util.MimeHeaders First 10 of 9,089 objects	9,089	363,560	67,822,744
org.glassfish.grizzly.nio.transport.TCPNIOConnection First 10 of 431 objects	431	58,616	18,421,912

Label	Number of Objects	Used Heap Size	Retained Heap Size
org.glassfish.grizzly.http2.Http2Stream First 10 of 6,920 objects	6,920	553,600	6,518,264
org.glassfish.grizzly.ssl.SSLUtils\$3 First 10 of 178 objects	178	5,696	5,966,560
org.glassfish.grizzly.http.util.DataChunk First 10 of 9,089 objects	9,089	290,848	1,599,880
java.util.TreeMap\$Entry All 2 objects	2	80	1,498,040
byte[] First 10 of 18 objects	18	1,179,936	1,179,936
java.lang.String First 10 of 10,500 objects	10,500	252,000	698,168
org.glassfish.grizzly.http2.Http2State First 10 of 431 objects	431	13,792	66,608
Total: 13 entries	84,062	9,928,024	1,786,697,696

▼ All Accumulated Objects by Class


Class Name	Objects	Shallow Heap
byte[] First 10 of 1,020,308 objects	1,020,308	407,642,456
char[] First 10 of 233,676 objects	233,676	259,655,648
org.glassfish.grizzly.http.util.ByteChunk First 10 of 3,985,677 objects	3,985,677	223,197,912
org.glassfish.grizzly.http.util.CharChunk First 10 of 4,123,256 objects	4,123,256	197,916,288
org.glassfish.grizzly.http.util.BufferChunk First 10 of 4,032,674 objects	4,032,674	161,306,960
org.glassfish.grizzly.http.util.DataChunk First 10 of 3,931,460 objects	3,931,460	125,806,720
org.glassfish.grizzly.http.util.MimeHeaderField First 10 of 1,381,880 objects	1,381,880	33,165,120
java.util.HashMap\$Node[] First 10 of 266,136 objects	266,136	24,832,224
java.lang.Object[] First 10 of 377,856 objects	377,856	18,043,904
org.glassfish.grizzly.attributes.UnsafeAttributeHolder\$Holder First 10 of 620,328 objects	620,328	14,887,872
int[] First 10 of 139,339 objects	139,339	13,502,384
com.sun.enterprise.web.pwc.connector.coyote.PwcCoyoteRequest First 10 of 51,481 objects	51,481	13,179,136
java.util.HashMap First 10 of 268,459 objects	268,459	12,886,032
org.glassfish.grizzly.http.Cookie First 10 of 217,142 objects	217,142	10,422,816
java.lang.String First 10 of 396,736 objects	396,736	9,521,664
org.glassfish.grizzly.http2.Http2Request First 10 of 51,694 objects	51,694	9,098,144
org.glassfish.grizzly.http.util.MimeHeaderField[] First 10 of 103,388 objects	103,388	9,095,008
java.util.concurrent.ConcurrentLinkedQueue\$Node First 10 of 350,173 objects	350,173	8,404,152
java.util.concurrent.ConcurrentLinkedQueue First 10 of 344,361 objects	344,361	8,264,664
org.glassfish.grizzly.http2.Http2Stream First 10 of 100,615 objects	100,615	8,049,200
java.util.ArrayList First 10 of 333,078 objects	333,078	7,993,872
org.glassfish.grizzly.memory.AbstractBufferArray\$PosLim First 10 of 243,787 objects	243,787	7,801,184
java.lang.Object First 10 of 473,320 objects	473,320	7,573,120
org.glassfish.grizzly.attributes.UnsafeAttributeHolder First 10 of 155,082 objects	155,082	7,443,936
java.util.concurrent.LinkedTransferQueue\$Node First 10 of 199,620 objects	199,620	6,387,840
Total: 25 of 215 entries; 190 more	28,650,782	1,786,697,736

▼ Thread Details

▼ Thread http-thread-pool::http-listener-2(1)

▼ Thread Properties

Object / Stack Frame	org.glassfish.grizzly.threadpool.DefaultWorkerThread @ 0x82e86c28
Name	http-thread-pool::http-listener-2(1)
Shallow Heap	136
Retained Heap	246,592
Max. Locals' Retained Heap	
Context Class Loader	org.apache.felix.framework.BundleWiringImpl\$BundleClassLoader @ 0x8221f6c8

Is Daemon	true
Priority	5
State	[alive, blocked on monitor enter]
State value	0x401
 Total: 10 entries	

▼ **Thread Stack**

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http-thread-pool::http-listener-2(1)
  at org.glassfish.grizzly.http2.AlpnSupport.setConnection(Ljavax/net/ssl/SSLEngine;Lorg/glassfish/grizzly/Connection;)V (AlpnSupport.java:
  at org.glassfish.grizzly.http2.AlpnSupport.access$500(Ljavax/net/ssl/SSLEngine;Lorg/glassfish/grizzly/Connection;)V (AlpnSupport.java:46)
  at org.glassfish.grizzly.http2.AlpnSupport$1.onStart(Lorg/glassfish/grizzly/Connection;)V (AlpnSupport.java:146)
  at org.glassfish.grizzly.ssl.SSLBaseFilter.notifyHandshakeStart(Lorg/glassfish/grizzly/Connection;)V (SSLBaseFilter.java:996)
  at org.glassfish.grizzly.ssl.SSLBaseFilter$SSLTransportFilterWrapper.handleRead(Lorg/glassfish/grizzly/filterchain/FilterChainContext;)Lo
  at org.glassfish.grizzly.filterchain.ExecutorResolver$9.execute(Lorg/glassfish/grizzly/filterchain/Filter;Lorg/glassfish/grizzly/filterch
  at org.glassfish.grizzly.filterchain.DefaultFilterChain.executeFilter(Lorg/glassfish/grizzly/filterchain/FilterExecutor;Lorg/glassfish/gr
  at org.glassfish.grizzly.filterchain.DefaultFilterChain.executeChainPart(Lorg/glassfish/grizzly/filterchain/FilterChainContext;Lorg/glass
  at org.glassfish.grizzly.filterchain.DefaultFilterChain.execute(Lorg/glassfish/grizzly/filterchain/FilterChainContext;)Lorg/glassfish/gri
  at org.glassfish.grizzly.filterchain.DefaultFilterChain.process(Lorg/glassfish/grizzly/Context;)Lorg/glassfish/grizzly/ProcessorResult; (
  at org.glassfish.grizzly.ProcessorExecutor.execute(Lorg/glassfish/grizzly/Context;)V (ProcessorExecutor.java:53)
  at org.glassfish.grizzly.nio.transport.TCPNIOTransport.fireIOEvent(Lorg/glassfish/grizzly/IOEvent;Lorg/glassfish/grizzly/Connection;Lorg/
  at org.glassfish.grizzly.strategies.AbstractIOStrategy.fireIOEvent(Lorg/glassfish/grizzly/Connection;Lorg/glassfish/grizzly/IOEvent;Lorg/
  at org.glassfish.grizzly.strategies.WorkerThreadIOStrategy.run0(Lorg/glassfish/grizzly/Connection;Lorg/glassfish/grizzly/IOEvent;Lorg/gla
  at org.glassfish.grizzly.strategies.WorkerThreadIOStrategy.access$100(Lorg/glassfish/grizzly/Connection;Lorg/glassfish/grizzly/IOEvent;Lo
  at org.glassfish.grizzly.strategies.WorkerThreadIOStrategy$WorkerThreadRunnable.run()V (WorkerThreadIOStrategy.java:114)
  at org.glassfish.grizzly.threadpool.AbstractThreadPool$Worker.doWork()V (AbstractThreadPool.java:569)
  at org.glassfish.grizzly.threadpool.AbstractThreadPool$Worker.run()V (AbstractThreadPool.java:549)
  at java.lang.Thread.run()V (Thread.java:834)
    
```

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