

Testovanie scenára true pre debug taktiku s logmi

OS: windows 10 version 10.0.16299 amd64 processors 4

Vývojové prostredie: Eclipse

Nástroj: Yourkit

Stav pred spustením taktiky:

1. Heap memory:

- 124mb allocated
- 15-99 mb used
- Limit 1.8 GB

2. Non – Heap memory:

- 39mb allocated
- 38mb used
- Limit unknown

3. Garbage collection:

- 1/s
- Collections: 156
- Time: 0s

4. Classes:

- Currently loaded: 3503

5. CPU usage telemetry

- CPU time (user + kernel): 14% - 47%
- CPU time (kernel): 0%- 3%
- Time spent in GC: 0%

6. Threads

- 13 threads
- 9 daemon threads
- 14 peak
- Total created 18

Stav počas spustenej taktiky:

1. Heap memory:

- a. 61-73mb allocated
- b. 36 mb used
- c. Limit 1.8 GB

2. Non – Heap memory:

- a. 41mb allocated
- b. 40mb used
- c. Limit unknown

3. Garbage collection:

- a. 1/s
- b. Collections: 642
- c. Time: 1s

4. Classes:

- a. Currently loaded: 3554

5. CPU usage telemetry

- a. CPU time (user + kernel): 14% - 47%
- b. CPU time (kernel): 0%- 3%
- c. Time spent in GC: 0%

6. Threads

- a. 13 threads
- b. 9 daemon threads
- c. 14 peak
- d. Total created 18

Call Tree pred spustením vs. Call Tree po spustení:

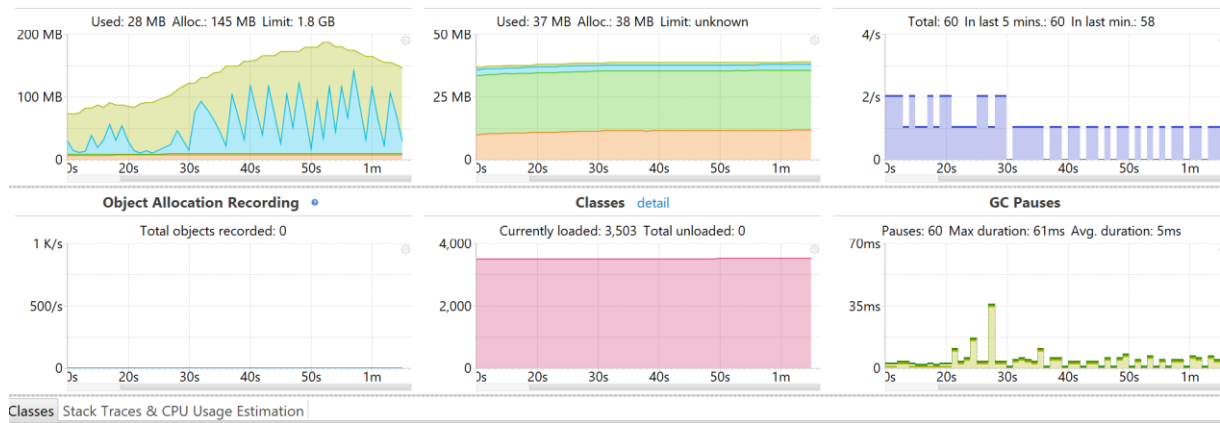
Call Tree		Time (ms)
<All threads>		38,636 100 %
sk.fiit.jim.init.Main.main(String[])		38,480 99 %
Main.java:100 sk.fiit.jim.agent.communication.Communication.start()		35,292 91 %
Main.java:54 sk.fiit.jim.annotation.data.AnnotationManager.loadAnnotations(String)		718 2 %
Main.java:51 sk.fiit.jim.init.SkillsFromXMLLoader.load()		562 1 %
Main.java:74 sk.fiit.jim.gui.ReplanWindow.getInstance()		390 1 %
Main.java:93 sk.fiit.jim.decision.SelectorObserver.<clinit>()		312 1 %
Main.java:70 sk.fiit.jim.gui.JLogWindow.<init>()		265 1 %
Main.java:70 java.awt.Component.<clinit>()		218 1 %
Main.java:95 sk.fiit.jim.Settings.initDecisionObjects()		156 0 %
Main.java:71 java.awt.Window.setVisible(boolean)		140 0 %
Main.java:70 java.lang.ClassLoader.loadClass(String)		93 0 %
Main.java:38 java.util.logging.Logger.log(Level, String)		93 0 %
Main.java:52 sk.fiit.jim.annotation.data.AnnotationManager.loadLowSkills(String)		62 0 %
Main.java:36 sk.fiit.jim.log.JLog.setup(boolean, boolean)		46 0 %
Main.java:51 java.lang.ClassLoader.loadClass(String)		31 0 %
Main.java:64 sk.fiit.jim.agent.server.TFTPServer.<init>(File, File, int, TFTPServer\$ServerMode, PrintStream, PrintStream)		31 0 %
Main.java:36 java.lang.ClassLoader.loadClass(String)		15 0 %
Main.java:87 java.lang.ClassLoader.loadClass(String)		15 0 %
Main.java:92 java.lang.ClassLoader.loadClass(String)		15 0 %
Main.java:90 sk.fiit.jim.agent.models.AgentModel.<clinit>()		15 0 %
java.awt.EventDispatchThread.run()		125 0 %
sun.launcher.LauncherHelper.checkAndLoadMain(boolean, int, String)		31 0 %

Obrázok 1 Call tree pred spustením

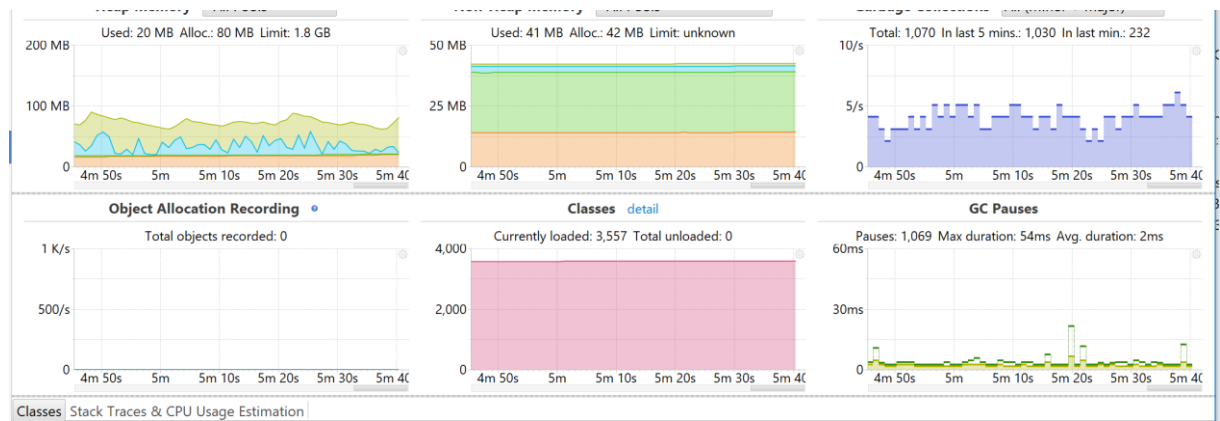
Call Tree		Time (ms)
<All threads>		234,062 100 %
sk.fiit.jim.init.Main.main(String[])		233,781 99 %
Main.java:100 sk.fiit.jim.agent.communication.Communication.start()		230,687 99 %
Main.java:54 sk.fiit.jim.annotation.data.AnnotationManager.loadAnnotations(String)		656 0 %
Main.java:51 sk.fiit.jim.init.SkillsFromXMLLoader.load()		484 0 %
Main.java:74 sk.fiit.jim.gui.ReplanWindow.getInstance()		406 0 %
Main.java:93 sk.fiit.jim.decision.SelectorObserver.<clinit>()		312 0 %
Main.java:70 sk.fiit.jim.gui.JLogWindow.<init>()		250 0 %
Main.java:70 java.awt.Component.<clinit>()		203 0 %
Main.java:71 java.awt.Window.setVisible(boolean)		156 0 %
Main.java:95 sk.fiit.jim.Settings.initDecisionObjects()		140 0 %
Main.java:38 java.util.logging.Logger.log(Level, String)		93 0 %
Main.java:70 java.lang.ClassLoader.loadClass(String)		78 0 %
Main.java:64 sk.fiit.jim.agent.server.TFTPServer.<init>(File, File, int, TFTPServer\$ServerMode, PrintStream, PrintStream)		78 0 %
Main.java:52 sk.fiit.jim.annotation.data.AnnotationManager.loadLowSkills(String)		78 0 %
Main.java:36 sk.fiit.jim.log.JLog.setup(boolean, boolean)		46 0 %
Main.java:52 java.lang.ClassLoader.loadClass(String)		31 0 %
Main.java:37 sk.fiit.jim.log.JLog.addAllLogTypes()		31 0 %
Main.java:51 java.lang.ClassLoader.loadClass(String)		15 0 %
Main.java:87		15 0 %
Main.java:90 sk.fiit.jim.agent.models.AgentModel.<clinit>()		15 0 %
java.awt.EventDispatchThread.run()		187 0 %
sun.launcher.LauncherHelper.checkAndLoadMain(boolean, int, String)		62 0 %
java.lang.ref.Reference\$ReferenceHandler.run()		31 0 %

Obrázok 2 Call tree po spustení

Memory pred vs Memory Po spustení:



Obrázok 3 Memory pred spustením



Obrázok 4 Memory po spustení

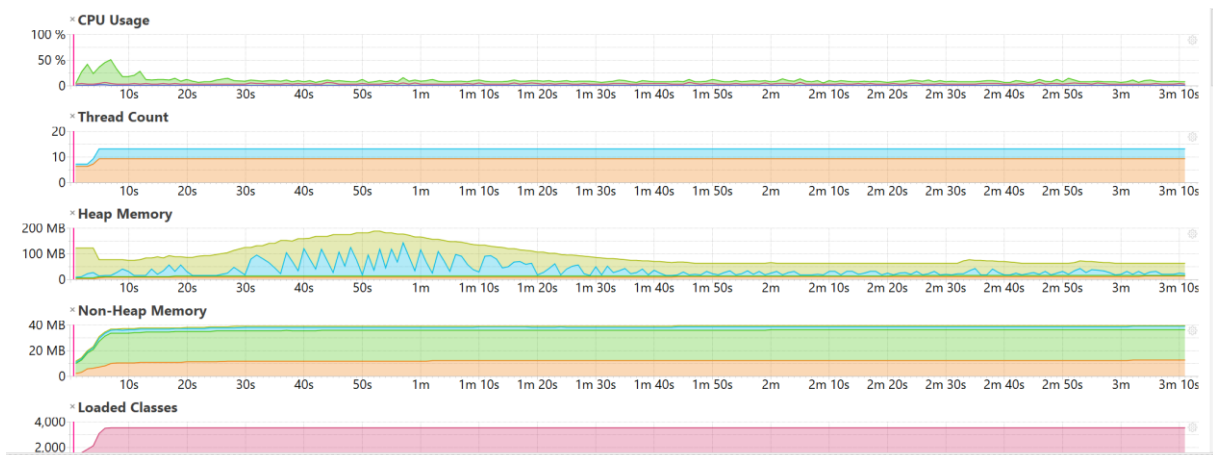
Method	- Time (ms)	Own Time (ms)	
→ sk.fiit.jim.init.Main.main(String[]) Main.java	48,632	99%	0
→ sk.fiit.jim.agent.communication.Communication.start() Communication.java	45,444	93%	< 0.1
→ sk.fiit.jim.agent.communication.Communication.mainLoop() Communication.java	45,243	93%	0
→ sk.fiit.jim.agent.parsing.Parser.parse(String) Parser.java	34,750	71%	0
→ sk.fiit.jim.agent.parsing.Parser.notifyObservers() Parser.java	34,578	71%	0
→ sk.fiit.jim.agent.models.AgentModel.processNewServerMessage(ParsedData) AgentModel.java	30,312	62%	0
→ sk.fiit.jim.agent.models.AgentModel.updateRotations(ParsedData) AgentModel.java	24,687	51%	0
→ sk.fiit.jim.agent.models.AgentRotationCalculator.getFlagsOfSideWithMoreFlagsSeen(Map) AgentRotationCalculator.java	24,687	51%	0
→ sk.fiit.jim.agent.models.AgentRotationCalculator.updateRotations(ParsedData) AgentRotationCalculator.java	24,687	51%	0
↪ java.io.BufferedWriter.close()	20,984	45%	20,984
→ sk.fiit.jim.log.JimLocalFileCreator.writeLogFile(String) JimLocalFileCreator.java	18,968	39%	0
→ sk.fiit.jim.agent.communication.Communication.receive() Communication.java	9,915	20%	0
↪ java.io.DataInputStream.readInt()	9,899	20%	9,899
→ sk.fiit.jim.log.JimLocalFileCreator.writeLogFileGameTime(String) JimLocalFileCreator.java	8,562	18%	0
↪ java.util.logging.Logger.log(Level, String)	4,828	10%	2,468
→ sk.fiit.jim.agent.models.AgentModel.updateBodyPartsPositions2() AgentModel.java	4,593	9%	15
→ sk.fiit.jim.agent.models.WorldModel.processNewServerMessage(ParsedData) WorldModel.java	3,984	8%	31
→ sk.fiit.jim.agent.communication.testframework.Message\$WorldModel.changed(WorldModel) Message.java	3,890	8%	171
→ sk.fiit.jim.log.JimLocalCsvFileCreator.writeCsvLog(String[]) JimLocalCsvFileCreator.java	3,546	7%	0
↪ java.io.FileWriter.<init>(String, boolean)	2,375	5%	2,375
→ sk.fiit.jim.log.JimHtmlFormatter.format(LogRecord) JimHtmlFormatter.java	2,343	5%	46
↪ java.util.logging.LogRecord.getSourceClassName()	2,000	4%	2,000
→ sk.fiit.jim.log.JimLocalCsvFileCreator.<init>(String) JimLocalCsvFileCreator.java	1,640	3%	0
↪ org.apache.commons.net.util.Base64.encodeBase64String(byte[]) Base64.java	1,500	3%	1,500
↪ java.io.ObjectOutputStream.writeObject(Object)	1,234	3%	2,343
→ sk.fiit.jim.log.JimLocalFileCreator.<init>() JimLocalFileCreator.java	1,187	2%	0
→ sk.fiit.robocup.library.geometry.Vector3D.calculateSpherical() Vector3D.java	953	2%	0
→ sk.fiit.robocup.library.geometry.Vector3D.cartesian(double, double, double) Vector3D.java	953	2%	0
↪ java.lang.Math.asin(double)	765	2%	765
→ sk.fiit.jim.agent.communication.Communication.transmit(String) Communication.java	732	2%	0
↪ java.security.MessageDigest.digest(byte[])	718	1%	718
→ sk.fiit.jim.annotation.data.AnnotationManager.loadAnnotations(String) AnnotationManager.java	718	1%	0

Obrázok 5 MethodListCPUPredSpustením

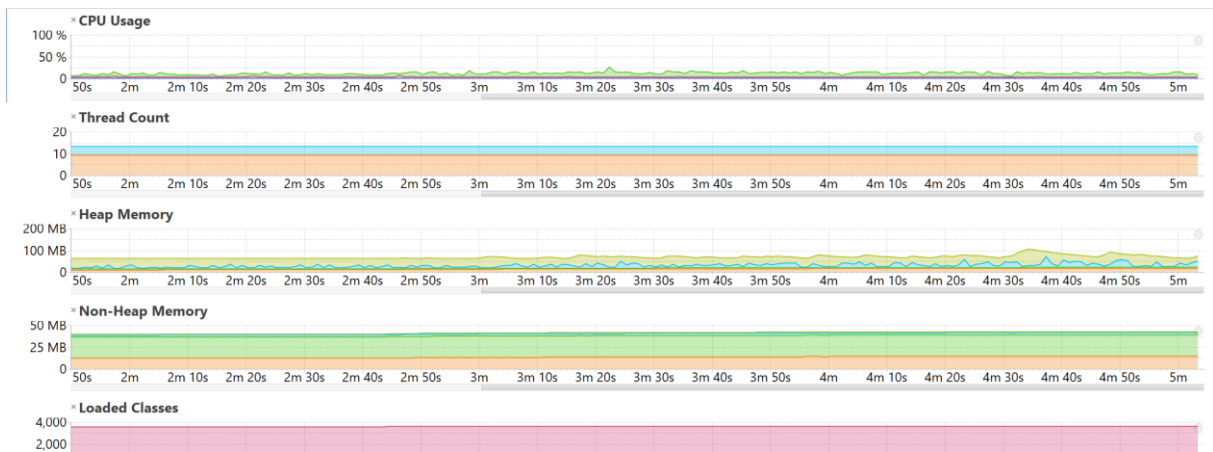
Method	- Time (ms)	Own Time (ms)	
→ sk.fiit.jim.init.Main.main(String[]) Main.java	248,524	99%	15
→ sk.fiit.jim.agent.communication.Communication.start() Communication.java	245,431	99%	0
→ sk.fiit.jim.agent.communication.Communication.mainLoop() Communication.java	244,196	98%	46
→ sk.fiit.jim.agent.communication.Communication.receive() Communication.java	120,732	49%	0
↪ java.io.DataInputStream.readInt()	120,644	49%	120,644
→ sk.fiit.jim.agent.parsing.Parser.parse(String) Parser.java	120,375	48%	0
→ sk.fiit.jim.agent.parsing.Parser.notifyObservers() Parser.java	119,609	48%	62
→ sk.fiit.jim.agent.models.AgentModel.processNewServerMessage(ParsedData) AgentModel.java	76,062	31%	0
→ sk.fiit.jim.agent.models.AgentModel.updateRotations(ParsedData) AgentModel.java	48,781	20%	0
→ sk.fiit.jim.agent.models.AgentRotationCalculator.updateRotations(ParsedData) AgentRotationCalculator.java	48,781	20%	0
→ sk.fiit.jim.agent.models.AgentRotationCalculator.getFlagsOfSideWithMoreFlagsSeen(Map) AgentRotationCalculator.java	48,734	20%	0
→ sk.fiit.jim.agent.models.WorldModel.processNewServerMessage(ParsedData) WorldModel.java	41,718	17%	312
→ sk.fiit.jim.agent.communication.testframework.Message\$WorldModel.changed(WorldModel) Message.java	41,171	17%	1,859
↪ java.io.BufferedWriter.close()	40,984	16%	40,984
→ sk.fiit.jim.log.JimLocalFileCreator.writeLogFile(String) JimLocalFileCreator.java	35,984	14%	0
→ sk.fiit.jim.agent.models.AgentModel.updateBodyPartsPositions2() AgentModel.java	22,640	9%	15
↪ java.util.logging.Logger.log(Level, String)	21,625	9%	9,765
↪ org.apache.commons.net.util.Base64.encodeBase64String(byte[]) Base64.java	17,656	7%	17,656
→ sk.fiit.jim.log.JimLocalFileCreator.writeLogFileGameTime(String) JimLocalFileCreator.java	15,718	6%	0
→ sk.fiit.jim.log.JimHtmlFormatter.format(LogRecord) JimHtmlFormatter.java	11,781	5%	203
↪ java.security.MessageDigest.digest(byte[])	10,562	4%	10,562
↪ java.util.logging.LogRecord.getSourceClassName()	10,250	4%	10,250
↪ java.io.ObjectOutputStream.writeObject(Object)	10,062	4%	19,781
→ sk.fiit.jim.log.JimLocalCsvFileCreator.writeCsvLog(String[]) JimLocalCsvFileCreator.java	7,468	3%	0
→ sk.fiit.robocup.library.geometry.Vector3D.calculateSpherical() Vector3D.java	5,703	2%	0
→ sk.fiit.robocup.library.geometry.Vector3D.cartesian(double, double, double) Vector3D.java	5,703	2%	0
↪ java.io.FileWriter.<init>(String, boolean)	4,140	2%	4,140
↪ java.lang.Math.asin(double)	4,093	2%	4,093
→ sk.fiit.jim.log.JimLocalCsvFileCreator.<init>(String) JimLocalCsvFileCreator.java	3,609	1%	0
→ sk.fiit.jim.agent.communication.Communication.transmit(String) Communication.java	3,558	1%	< 0.1
↪ java.io.DataOutputStream.writeInt(int)	3,272	1%	3,272
→ sk.fiit.jim.agent.models.BodyPart.computeRelativePositionsToTorso(Map, Map) BodyPart.java	2,875	1%	0

Obrázok 6 MethodListCpuPoSpustení

Performance Chart pred spustením vs: Performance Chart po spustení:

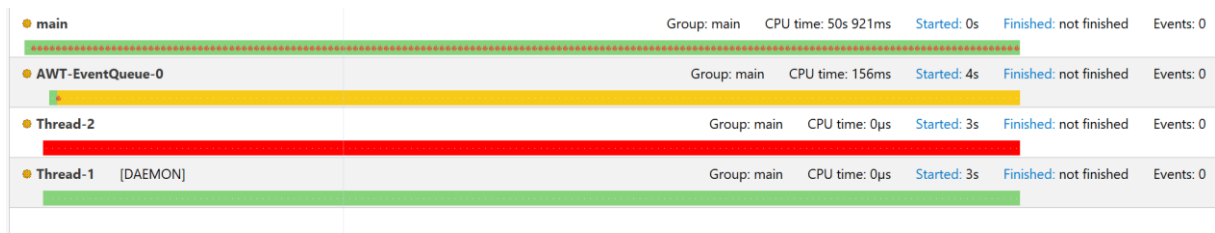


Obrázok 7 Performance Chart Pred spustením

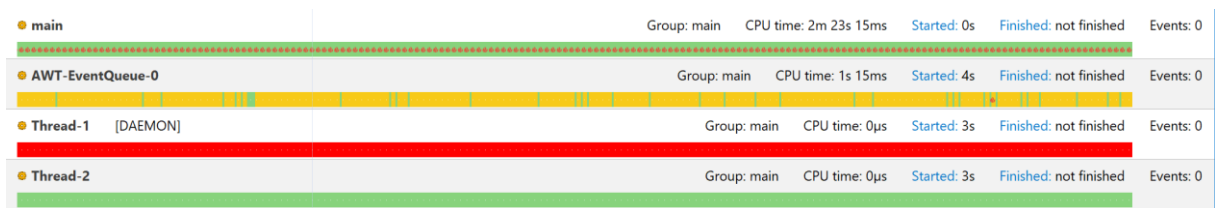


Obrázok 8 Performance Chart Po spustení

Thready pred spustením vs Thready po spustení:



Obrázok 9 Thready pred spustením



Obrázok 10 Thready Po spustení