JDK 7
1.7-SNAPSHOT

2015-04-24

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1. JDK 7

This chapter presents an overview of the project measures. This dashboard shows the most important measures related to project quality, and it provides a good starting point for identifying problems in source code.

1.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
1,171,296 ⬆	35.9%	3.2
N/A packages	655,429 comment lines	26.3 /class
11,241 classes		295,514 decision points
92,229 methods		
5.4% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	N/A
N/A tests	N/A failures
	N/A errors

Coding Rules Issues

Technical DebtTEST	**Issues**
4,429d ⬇	154,684 ⬇

1.2. Issues Analysis

Most violated rules	
Throwable and Error should not be caught	198
"equals(Object obj)" and "hashCode()" should be overridden in pairs	113
super.finalize() should be called at the end of Object.finalize() implementations	67

Null pointers should not be dereferenced	6
"return" statements should not occur in "finally" blocks	3

Most violated files	
AffineTransform.java	825
BandStructure.java	798
Collections.java	717
Constants.java	674
ExpressionParser.java	660

Most complex files	
ExpressionParser.java	1,967
Component.java	1,613
JTable.java	1,406
Pattern.java	1,245
CachedRowSetImpl.java	1,046

Most duplicated files	
JIS_X_0212_Solaris_Encoder.java	2,595
JIS_X_0212_Encoder.java	2,594
JIS_X_0208_Encoder.java	2,589
CachedRowSetImpl.java	2,445
JdbcRowSetImpl.java	2,404

1.3. Issues Details

Rule	Throwable and Error should not be caught	
File		Line
Shutdown.java		124
Thread.java		721
DefaultMBeanServerInterceptor.java		650
VirtualMachineManagerImpl.java		101
MethodHandleImpl.java		602
JEditorPane.java		2404

AppletClassLoader.java	159
SocketChannel.java	188
DefaultMBeanServerInterceptor.java	840
BasicHTML.java	63
LambdaForm.java	459
CSS.java	1031
Parser.java	901
DefaultMBeanServerInterceptor.java	710
Parser.java	807
ForkJoinTask.java	335
HeaderParser.java	243
ThreadPoolExecutor.java	1150
UIDefaults.java	734
DefaultMBeanServerInterceptor.java	803

Rule	"equals(Object obj)" and "hashCode()" should be overridden in pairs
File	**Line**
PixelInterleavedSampleModel.java	168
XMLX509IssuerSerial.java	150
DOMReference.java	528
ConstantPool.java	516
SunAlternateMedia.java	66
ConstantPool.java	343
NTSidPrimaryGroupPrincipal.java	94
DOMSignatureMethod.java	339
JobKOctetsProcessed.java	108
EnumMap.java	110
Collections.java	1461
Fixups.java	260
DefaultCaret.java	1433
BandedSampleModel.java	846
DOMManifest.java	142
Point.java	214
ModificationWatchpointSpec.java	64
PrinterInfo.java	92
JobMediaSheetsSupported.java	96
DOMKeyValue.java	249

Rule	super.finalize() should be called at the end of Object.finalize() implementations

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File	Line
FileImageInputStream.java	159
StringContent.java	351
PKCS11.java	1471
Enum.java	243
KeyProtector.java	150
FileOutputStream.java	453
ICC_Profile.java	752
LogInputStream.java	131
Timer.java	111
RegionClipSpanIterator.java	388
PNGImageWriter.java	260
AbstractPlainDatagramSocketImpl.java	242
ColorModel.java	1628
JavaSoundAudioClip.java	278
ZipFile.java	432
GSSNameElement.java	267
Graphics.java	1163
HttpsURLConnectionOldImpl.java	468
AbstractMidiDevice.java	467
ProxyGraphics2D.java	1267

Rule	Null pointers should not be dereferenced	
File		Line
AnonymousClassLoader.java		185
PolicyUtil.java		168
MonitoredHostProvider.java		153
X509CertSelector.java		2188, 2205
MimeTable.java		263

Rule	"return" statements should not occur in "finally" blocks	
File		Line
SocketChannelImpl.java		423
JEditorPane.java		681
SocketChannelImpl.java		468

Rule	Methods "wait(...)", "notify()" and "notifyAll()" should never be called on Thread instances

File	Line
TargetVM.java	345
Timer.java	386, 435
OGLRenderQueue.java	179
AudioPlayer.java	134
Timer.java	596
OGLRenderQueue.java	206
Timer.java	482
OGLRenderQueue.java	246
PoolCleaner.java	54
OGLRenderQueue.java	174
Timer.java	377
TargetVM.java	340
Timer.java	623
TargetVM.java	353

Rule	Exception handlers should preserve the original exception
File	Line
KeyUsageExtension.java	308
ReasonFlags.java	214
HostnameChecker.java	163
NetscapeCertTypeExtension.java	256
SimpleBeanInfo.java	141
HttpsClient.java	206
HostnameChecker.java	162
AdaptorBootstrap.java	349
X509CRLSelector.java	709
LdapPoolManager.java	393
StreamDecoder.java	215
SoftSynthesizer.java	677
Agent.java	549
Monitor.java	1305
LdapSchemaCtx.java	153
HttpURLConnection.java	1605
JEditorPane.java	1014
SignerInfo.java	370
RasterPrinterJob.java	906
RemoteClass.java	555

Rule	Floating point numbers should not be tested for equality	
File		**Line**
DerivedColor.java		132
AffineTransform.java		1292, 1963
ExtendedTextSourceLabel.java		405
ProcessPath.java		1688
Rectangle2D.java		924
AffineTransform.java		2800, 1818
Toolkit.java		171
FloatingDecimal.java		1358
StandardMidiFileWriter.java		252
ChoiceFormat.java		276
FpUtils.java		955
AffineTransform.java		1963
Instruction.java		350
SoftLowFrequencyOscillator.java		89
Rectangle2D.java		923
StandardMidiFileWriter.java		260
AffineTransform.java		3484
EmergencySoundbank.java		2609

Rule	Fields in a "Serializable" class should either be transient or serializable	
File		**Line**
Token.java		83, 83
WindowsLookAndFeel.java		114
TreeMap.java		1863
WindowsLookAndFeel.java		114
Token.java		83
WindowsLookAndFeel.java		114
SpinnerNumberModel.java		86
TlsKeyMaterialSpec.java		52
TreeMap.java		1863
SpinnerNumberModel.java		86
WindowsLookAndFeel.java		114
Token.java		83
TlsKeyMaterialSpec.java		52
TreeMap.java		1252, 1252
SpinnerDateModel.java		91, 91
AbstractDocument.java		3091
GUI.java		49

Rule	Throwable.printStackTrace(...) should not be called
File	**Line**
FrameView.java	105
Activation.java	1481
ExtensionDependency.java	545
Paper.java	114
Toolkit.java	227
Dialog.java	1140
JarSigner.java	1553
MaximizableInternalFrame.java	248, 244
XMBeanNotifications.java	703
PolicyChecker.java	297
PolicyFile.java	644
RTFGenerator.java	797
FileCredentialsCache.java	435
DSA.java	669
MBeansTab.java	147
MemoryTab.java	331
JavaSoundAudioClip.java	204
KeyAgreement.java	299
JarSigner.java	1921