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It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

# 1.7 commons-configuration 1.8

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;;

;; Author: Christoph.Wedler@sap.com

;; Keywords: languages

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startsWith

java/util/Set removeAll(Ljava/util/Collection;)Z'(Ljava/lang/String;Ljava/lang/String;)V nextTokenadd hasMoreTokens()Zappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;,(Ljava/lang/Object;)Ljava/lang/StringBuffer ;&org/apache/tools/ant/types/Permissions!&'()\*)+),-

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./0/*1236780A *+1
2 36 9):;0/*1236<80A *+1
2 36 =)>;0/*1236?80V*++**+1236,)@;0/*1236AB0*+
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# 1.16 asm 5.0.4

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Maven Ant Tasks

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## 1.17 j2objc-annotations 1.1

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\*/

package java.security;

import java.io.Serializable;

/\*\*

\* Legacy security code; do not use.

\*/

public abstract class Permission implements Guard, Serializable {
 public Permission(String

name) { }

public final String getName() { return null; }

public void checkGuard(Object obj) throws SecurityException { }

```
public PermissionCollection newPermissionCollection() {
  return new AllPermissionCollection();
```

}

public abstract String getActions();

public abstract boolean implies(Permission permission);

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## 1.18 bouncy-castle 1.60

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### 1.28 xstream 1.4.10

# 1.29 listenablefuture 9999.0

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# 1.33 bcpkix-jdk15on 1.60

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1.35 jersey-client 1.19.1

### 1.36 rx-netty-servo 0.4.9

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### 1.39 netflix-statistics 0.1.1

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# 1.42 spring-cloud-context 2.1.1

# 1.43 spring-cloud-starter 2.1.1

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## 1.48 ribbon-httpclient 2.3.0

# 1.49 hystrix-serialization 1.5.18

# 1.50 hystrix-javanica 1.5.18

# 1.51 hystrix-metrics-event-stream 1.5.18

# 1.52 zuul-core 1.3.1

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## 1.58 ribbon-eureka 2.3.0

# 1.59 eureka-core 1.9.8

## 1.60 eureka-client 1.9.8

# 1.61 security-provider 1.3.0

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LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. </body> </html> <html> <body bgcolor=#ffffff> The following organisations and people have contributed to the Bouncy Castle Cryptography Package. Thanks, may your castles never deflate! Donors The following people donated financially to help with the release of 1.63: <br /> Joshua Hight The following people donated financially to help with the release of 1.61: <br /> Bihari Babu The following people donated financially to help with the release of 1.60: <br /> Jens Neuhalfen and perillamint. The following people donated financially to help with the release of 1.59: <br /> Brian Reid. The following people and organisations donated financially to help with the release of 1.57: <br /> Joop Kaashoek and Pexus LLC. We also wish to acknowledge financial and collaborative support from <a href="https://www.cisco.com/">CISCO</a> and additional financial support from <a href="https://www.primekey.com/">PrimeKey</a> towards developing the EST API for RFC 7030 support. 

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Pasi Eronen <Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.

Lijun Liao <https://github.com/xipki&gt; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to

BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.

Maria

Ivanova <maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin Häberling <arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder &#064google.com &gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch <xavier&#064brittanysoftware.com&gt; - general code clean ups.

Erik Tews <e\_tews&#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding

Thomas Dixon <reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis <info&#064frankcornelis.be&gt;- addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim <rjoaquim&#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.David Stacey &lt;DStacey&#064allantgroup.com&gt;

- addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers <list&#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies <juliusdavies&#064gmail.com&gt; - additional modes and algorithm support in PEMReader

Matthias <g&#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga Käthler <olga.kaethler&#064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.Germano Rizzo &lt;germano.rizzo&#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

Núria Marí <numaa&#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller <js&#064tzi.de&gt;

- addition of NotationData packets for OpenPGP.

Michael Samblanet <mike&#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns <mstjohns&#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller <ramon.keller&#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson <mark&#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov <eugene\_gff&#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp <pknopp&#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.Jakub

Gwozdz <gwozdziu&#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski <bmalkow&#064tigase.org&gt; - initial implementation of VMPC cipher,

VMPCRandomGenerator, VMPCMac.

Tal Yacobi <tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko <andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll <jrn&#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson <mavricknz&#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.Gabriele Contini &lt;gcontini&#064hotpop.com&gt; - identified a bug in ASN.1

library with handling of unterminated NDEF's.

Roelof Naude <roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.

Patrick Peck <peck&#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay <lemaymd&#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].Alex Dupre &lt;ale&#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]

Michael Schoene <michael&#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga <ilarra&#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.

Bob

Kerns <bob.kerns&#064positscience.com&gt; fix to hashCode for X509CertificateObject.

Stefan Meyer <stefan.meyer&#064ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.

Robert J. Moore <Robert.J.Moore&#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai <rui&#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.

Torbjorn Svensson <tobbe79&#064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.Paul FitzPatrick &lt;bouncycastle\_pfitz&#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <k.henrik.andersson&#064gmail.com&gt; addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit&#064gmail.com&gt; subjectAlternativeName

fix for x509CertStoreSelector.

Harakiri <harakiri\_23&#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.Pedro Henriques &lt;pmahenriques&#064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer <job&#064kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.

Richard Farr <rfarr.se&#064gmail.com&gt; initial SRP-6a implementation.

Thomas Castiglione <castiglione&#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani&#064sogei.it&gt; patch for recognising multiple counter signatures.

```
Robin Lundgren <r737lundgren&#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.
```

Petr Kadlec <mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas

Antener <antener\_a&#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat <hsrawat&#064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann <lindemann&#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole <chris\_h\_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilås <markus&#064primekey.se&gt; several enhancements to

TimeStampResponseGenerator.

Dario Novakovic <darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith&#064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys.Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant&#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis <info&#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan&#064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan <boab.mcgoo&#064btinternet.com&gt;

patch to support different object and mgf digests in PSS signing.

Ivo Matheis <i.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche&#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf <alfilmalf&#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa&#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo&#064unimaticaspa.it&gt; initial work on

CMSTimeStampedDataParser.

Arnis Tartu <arnis&#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski <J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev <jhudolejev&#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten <liane.velten&#064hjp-consulting.com&gt; fine tuning

of code for DHParameters validation.

Shawn Willden <swillden&#064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev <akrachev&#064gmail.com&gt; added support for revocation signatures in OpenPGP.Mickael Laiking &lt;mickael.laiking&#064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu <tbuktu&#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd <rbernd&#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak&#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid&#064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz&#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin&#064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <p.petrov&#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.Daniel Fitzpatrick &lt;daniel.f.nwr&#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementions of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <Andy.Neilson&#064quest.com&gt;a further patches to deal with multiple providers and PEMReader.

Ted Shaw <xiao.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new

PKCS10CeriticationRequests.

Eleriseth <Eleriseth&#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root <kenny&#064the-b.org&gt; patch for issuerAltName, subjectAltName support in

X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes <maarten.bodewes&#064gmail.com&gt;

initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay <pilf\_b&#064gyahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom <bdc&#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidén Borell <samuel&#064primekey.se&gt; patch to add DSTU-4145 to

DefaultSignatureAlgorithmFinder

Sergio Demian Lerner <sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington <Tim.Whittington&#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced

round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad <marcus.lundblad&#064primekey.se&gt; patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin <zhozhin&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov <t5555d&#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa <fatfredyy&#064gmail.com&gt;

ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes <ashley.hughes&#064blueyonder.co.uk&gt; patches for supporting

PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for

 $PGPS ignature Subpacket Vector.get Embedded Signatures (). <\!\!/li\!\!>$ 

Daniel Hirscher <dev&#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome&#064gmail.com&gt; initial implementation of EC keys for OpenpPGP and RFC6637 support.

Matti Aarnio <matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi <bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Müller <eric.mueller&#064sage.de&gt; additional

standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC

SecretKeyFactory.

Daniele Grasso <daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu <arnis&#064ut.ee&gt; checker for generated key vs OID in

JceCMSContentEncryptorBuilder.

AxelVDB <axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley <&gt; further work on completing gradle build.

Waldemar Dick <wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward <sid.steward&#064pdflabs.com&gt; code improvements to ASN1Boolean.Alex

Klyubin <klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett <gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter <andreas.reiter #064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller <kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli<ehli&#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.Daniel Heldt&lt;Daniel.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests

Robert Bushman <bouncycastle&#064traxel.com&gt; Clean up of DirectKeySignature example.Maurice Aarts&lt;aarts&#064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt;

initial implementation of Cramer-Shoup.

KB Sriram<mail\_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze<marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaef<https://github.com/martinschaef&gt; contributed a code-cleanup patch.

dstutz<https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich<tobias.wich&#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens<hauke&#064hauke-m.de&gt; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman<dmz&#064galois.com&gt; Further key quality improvements to

RSAKeyPairGenerator.

Jens Kapitza&ltj.kapitza&#064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund<johan&#064primekey.se&gt;

update to RFC 6960 for OCSPObjectIdentifiers.

nikosn<https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch <axel-vdb&#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins <derek&#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky <peto&#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.

lartiguePierre<https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.Thomas Belot&lt;thomas.belot+BC&#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce<https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler<https://github.com/Vampire&gt;

Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schürmann<https://github.com/dschuermann&gt; method for returning

signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael <MSKnete&#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for

generic type on RecipientInformationStore.

Tobias Wagner <tobias.wagner&#064n-design.de&gt; Fix SecureRandom handling in

BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro <sgiro&#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette<https://github.com/bschuette&gt;

Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.Leonard Dallot<https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen <j.w.janssen+bouncycastle&#064lxtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding <sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.Kai Kramer &lt;kai.kramer&#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles <benoit.charles&#064opentrust.com&gt; Fix for IES data length check on decryption.Niko &lt;nfink95&#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.

akwizgran<https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for varient keys.

Matthias Edelhoff <Matthias.Edelhoff #064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat <lukasz.deputat&#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

André Berenguel <https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi

Slawomir Jaranowski<https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev<https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton <wglanton77&#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001<https://github.com/jdvorak001&gt; Speed improvements for

ASN.1 ObjectIdentifier cache.

Joseph Naegele <jnaegele&#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.

Andrew Bonventre<https://github.com/andybons&gt; NullPointer patch for WNafUtil.

The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui <girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://securitycenter.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.Joerg Senekowitsch <joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in

EAC ECDSAPublicKey.

Alexandr Krivoshta <wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk <storojs72&#064gmail.com&gt;

N4 calculation fix to GOFB mode.

Na Yu <na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis <ekaratsiolis&#064mtg.de&gt; Corrected use of explicit tagging in X.509

PolicyConstraints class.

VivleSoren <https://github.com/VivleSoren&gt; additional constructor for

McElieceCCA2PrivateKeyParameters.

mtausig <https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.

Sebastian Wolfgang Roland <sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisoft <https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.Mike Safonov&lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches

for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk <storojs72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser <andreas.glaser&#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne <https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux <https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage <https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

Blake2s

Scott Woodward <scott&#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn <https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown <0xchrismccown&#064gmail.com&gt; identification of serialisation issue with

XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis <https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer <https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser <https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian <https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd <https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung <https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub <https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar <https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref <https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion <https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.fgrieu &lt;fgrieu&#064gmail.com&gt; identification and suggested fixes

for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG <https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier <up.gadermaier&#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert <https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.

Tony Washer <https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.

Aurimas Liutikas <https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.

Gabriel Sroka <https://github.com/gabrielsroka&gt; corrected comments in RSA validation.sarah-mdv &lt;https://github.com/sarah-mdv&gt;

improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman <https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo <https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Toulme <https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

Golden Looly <https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palmér, TrueSec <Henrik.Palmer&#064truesec.se&gt; Additional improvements to constant time comparisons.

René Korthaus<https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr<https://github.com/THausherr&gt; Addition generic

support for CMS/TSP functions.

Gaylor Bosson<https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

gaellalire<https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter<https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan<https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Heldt<https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe<https://github.com/Xor-el&gt; Fix for initially bugged legacy

Integers.numberOfLeadingZeros method.

Gsealy <https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 <https://github.com/aphuang2013&gt;

update to path validation in EST service for ClearPath EST.

Kevin Herron <https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml <https://github.com/svkreml&gt; GOST compliance change for

DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospelt >tobias&#064pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

</body>

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JCTools has now published artifacts (https://github.com/JCTools/JCTools/Issues/17) so RxJava could add JCTools as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735). RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

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jar/rx/internal/schedulers/GenericScheduledExecutorService.java

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jar/rx/exceptions/On Error Not Implemented Exception. java

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jar/rx/subjects/BehaviorSubject.java
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jar/rx/observers/SafeSubscriber.java

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jar/rx/exceptions/CompositeException.java

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\*/opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

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jar/rx/observables/GroupedObservable.java

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableList.java

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jar/rx/internal/util/LinkedArrayList.java

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jar/rx/exceptions/UnsubscribeFailedException.java

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/subscriptions/SequentialSubscription.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOnSubscribeMap.java

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jar/rx/internal/operators/OperatorDematerialize.java

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SerializedObserver.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BlockingOperatorLatest.java

jar/rx/subscriptions/SerialSubscription.java

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorZipIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeUsing.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/subjects/TestSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Completable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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jar/rx/internal/operators/SingleTimeout.java

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core/src/main/java/org/jctools/queues/atomic/BaseLinkedQueue.java \*/

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OperatorSampleWithTime.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OperatorWindowWithTime.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Actions.java \*

/opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OperatorSkipUntil.java

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```
core/src/main/java/org/jctools/queues/MpmcArrayQueue.java
```

\*/

Found in path(s):

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jar/rx/internal/operators/CompletableFromEmitter.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/CompletableSubscriber.java

\*

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core/src/main/java/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java \*/

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jar/rx/internal/util/UtilityFunctions.java

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jar/rx/singles/BlockingSingle.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/observables/AsyncOnSubscribe.java

\*

jar/rx/internal/operators/SingleDoAfterTerminate.java

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jar/rx/internal/util/BlockingUtils.java

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\* This mechanism for getting UNSAFE originally from:

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\* This plugin class provides 2 ways to customize {@link Scheduler} functionality

\* 1. You may redefine entire schedulers, if you so choose. To do so, override

\* the 3 methods that return Scheduler (io(), computation(), newThread()).

\* 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-

\* supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,

\* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to

\* modify Scheduler functionality without redefining Schedulers wholesale.

\*

\* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.

- \*
- \* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
- \* <a

href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins</a>. \*/

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jar/rx/plugins/RxJavaSchedulersHook.java

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core/src/main/java/org/jctools/queues/SpscUnboundedArrayQueue.java \*/

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core/src/main/java/org/jctools/queues/atomic/SpscAtomicArrayQueue.java */
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/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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\* Originally from https://code.google.com/p/guava-

libraries/source/browse/guava/src/com/google/common/annotations/Beta.java

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core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java \*/

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* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
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core/src/main/java/org/jctools/queues/LinkedQueueNode.java
```

\*/

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PK0P=spring-cloud-starter-netflix-ribbon-2.1.2.RELEASE-sources.jarg4G7C{ F-`DutCD !QG7Dwy>9u:g?{]ic`pqq Uh\*C5!Jz`p4w{HIE'1z>O<(X  $IRq8>H+Y/^*xBZ8LX1~11_fg7s\{\{`n`[W_;2|csqpu9x2IETH=a~v<\.0'i>/d1!4F&U5xV~VBEGA?\}\.O'pk''i)K3)$ .#RScs7,\_D/\_z,:\*^+;J~1XE3.<%wt\_3[5h]v7S,Dw5bZLI=C3tMDVrJLn9?l,Shthp 'sn}S`o [~ {:8@SI7R\$ 1f+U7L,`,\$Ts,VIow^Mk0p\_5\$#[n.A \*\*h'''v\NK:qvO<jRT2'eC@Br-KuY.czg]~\&VwiJ6W]Z>0E;zjs~OG g+8`?<\$O{7@-A'QR+&Uz.+GlL8UODo9wTsV"yCYjI iWmz^'pkJ`pd^V{NjW)x|U# &V~/Gl{JJ`ySR]gag{M)OL>0av "nJ9\${,VdS} .~E8[MNbW/ kN.Emkhuo~)SY\_[3p^Pu#,`c ]Jcoig;C^CxJ6LY!sN~|~B3TKFxAi#g@Z@%glo:L\$~A}rno\$Opv^\$C&=Ut+AU FF[7U-17{a]Mc bDcK\*B\*^HC:>kflV5fZu,Tt<j JsmXl49y[iu"6\;`UNf&9OnF9i6h;tXhM())wb\_UJqiZ\_:)1&|,)P(~1wV,^dU\_V+m9kmKw\.Lj c:47:@U3^>/lu58cxw\_\?},|2^Re+ Ao\%IAIeJ02vB;iMASvF} Ht|a8Q>}g6%2%~k{2##Hs-.7ZY%k\*=0{:\_?d:#"8m"sq(DEZR#T?N%kx~IHNVjK [Kz2n'JI.I8sX)U4vXcej),4{%tEgiF9J DL\$j,Onb)cJY)A2N&-dRrE/3D2OLAHRr=\*+bWQgbE\_UG{Y-\$&6rX@\_HA"'k /H(VO9C9O%FZEn6{F BtKDK1zD%u28J<kI+p%HJvQH|q S.YCm<83=Fn8p \$S2EDP\$"u4x"ym  $ZN!cS < a8,Iyz7KIw{\{*xO\#B-*\}mD \ RGR;} p0o0V00B\#c=4skVTYo4P@c4gqO*82myazgQ < /],*Zm M \ Me.$ nKbdE ^O^yTd/\$Vu|=Q

HJJ\_k0YzH+;+Wb=u`xm

FFbkCs<dJ% b ht&Sq:)?\*TfEe{)E%@mUxT8W}y3 Z8BEFM}tEa7b,gKMUAU'07wm8AQ-+) HN{2+t2Un{&sIBsfw<ov\_I<vcfF \$XZE5zAocaf!"RUy6QRabLDkT) Ce0K\_JW@"cEo,Z~Oru#U0NNyrnq}y56@HXl<\_D 6s9/: EZ91JFR"u:tu}/ksKanG\X2 Nk>!wn!J'wu+,1iM7 e&V|b XQU\3},6:BZa852ES\$fk\s'F"\*w<R47YXv'Z+DXsE1[5Kxcps`aK1dm!p~kSsct,Xo~j\$Yn]RYA;D1yq/\_\UP<ujCQ9/V@OiXj>].+ZV\_]Mo/^]?d\*NPX Ns![zEvb{P0"|5".?H3N1}QZ{,4X{.Lvn=<n5t;1 '}7e/@q\ EF2@wr'Hs>|J{h2hI,-oIfU\_bF;60EaGd/uV./+WJ(?>ttxuJJhTK^G}Hxwd\*DGi"mU(QVN-NXWUGJaSy3^JSTh#M^ngogsJ k+org]Thcr{+vlDE=kL3>Fr~"VH4~(` P/dSRA\H-mbzdkcf{`-3amB~eQ4\$WKg5F#\*=Qx&%W`d 7= 2&Ka L6klnrtKG3'{hOX[D@"6??&\$AZKjVBYIN.||6~k]5{W~onI=RjsvXa|YF1+~a+.Yhhj^8 A ({#.\][v!sR'5<;#.^Q~8zUFt#>]10fvDyTV v#,x\W Q; mmWfw|&+G'iR VJ: ~B9 P6>oFX!)-u,?zPKDcPK9ZP6spring-cloud-netflix-sidecar-2.2.2.RELEASEsources.jarzex]9c1ffff333Cl13cq3\_`}GVRTz\$A`r} AW4uo]ZDI #J/- QTU`er,SHrbQ%Qb;p7d acm6}0o/Fc\_H`\_\_S!b0\_lu;0K?E~s'8~D-x3sTV\f@jP=AKlgNi }bIjw:FhPf:HJ/+rTo\*WDqnG(LJ\$JLj`eE#5\_qfCvO}Tdn7L`T'=Brl4;yr.}#Ebsu<Eke@ O'Q#=TQ DKg!foY~i"AaL,#"m2F[C~#pj0~%K'ik^RQpUvpdWQG[Uu5Y)K(RT@yq`\$-4a LlHgfBRe&9he1\Fa~i%+\MtW\*+Blzi-p7&Q1v'4U{roR d[g~65bSS{-dBU"7)7Enmi{K&6Lum(^)c7KU a2mMbW+Cs(/0>"~e8@@llpu+%vgNhDxX% Tf\*"\$8f'\*f(a[Xn@\${YQa/=HHHb,WAG  $p > a66ff, iz0D)d|_7 i + {TFjCp}WX\&k1v-Itst]B <) cri!!;D4 +$ %!F9\DaP7KF\*nn >` HOm- /;ta?]w^JzC]`@!VaN=\$ODc%\*CsI ,wc#HH-`Z7>3CrZR\$qwCm'/p]R!/)r%?Z]Wg^zm{.{!HR@:,D}&k'1cU6/h}(5VtAVeE4vM.<%&<|+93UUIC2t~Ig#,=YiA9H /-h`p^i8.UIVnF|x-&e<O?dAtHCDj" c`c<seJMS\$\*jKr?q&cWAy: XsU/JB!5(yADY)@ e@Cj J/J)-x53mNxHZi 7rxGwczU'mWl{T4CZd"zpphU`jU =3X[UtteFhvE+}U+V;]cK?RM(,9W5A(m9jBkQ\~sN'yqg"}j9K)thHJ1NDo\$z3n:IiAjh%ACWj; -mj^ axurii1k/VVtPY]0|< w\5g.lj-N)V<:y%t4c9 RNS|3(`#dcmlfh`fc{\,W\_NTDo(%EQD2i=W\_QH"\_N%|IC~F+S zj7i\AvyPrIe)7\*nF4VwJuhA2,rS~\$q\$ywuWX(#B`D==>\*/9Nt\*1d{OApPd/pdPb@#@8dUd)Y-xQht-RCU@^5'3NW{A8R f\"0[)=Eu\C]S\$aIQ=<v8I80jHOeO.1/Y\$E;Eh8%6J\~Q!:9\_#h?h@/ 4G&mZX3H>v. X98"MBb9 [,\B]tUhMu@EldpXM\*;#C[{>n + t;1`<SjpZwNsHeV@o:peR^!@:olx?K] t >tc>lLD2C2H+W,D<g5E|N-Ve5 &M<Pc\*80SB7Ox)Dg3#/G0f/e5

@ntau1;n{]L

```
.-&jzSy*q^1G!g&S
q"v{BItz4od^ZrIUq`fbo3GCp^:8x+FRC,uQriTL[xSO2'Z[0+s\4*#>SGzM]l].-">$905E]3b)8Us9v1MjLk}Gq-
W|">\% V
Snk87]U$Mv{m1{<\.:z;l7}W8$8UCs&SN4mc.F(@BH$K 8#G#g9GD@T3#?LYoD9
h;GyW%>5pNk;S0iyFbrS-]p[N8Aq ]E3d37gkbnOy3 Q_v9\q&2{9`H*,/c]F6dyT"x>Nwb
kP\h,ho7r|7h:bR.)o=U
3jpdpjBS>6;)-k50\|!
dym:=& !#p[hz=^?*w
:bLWc-C (z$SK8OLjJ4:\e\4*U*YIEI,?"u'mKQ)|C7)bg{-sv
2#~YSR "Ol'
LZ]dJ5y;6?6Y)Q+EkkW#TN--Q3dxmg|PIIO0m"ZG%>btV\%?J,MsL^5N31):^f&05CD
8eDgKt"_U#H?E-)YE
4'v61gStI7k$vw^?dQ
g9*B,RYEC0}6I",,NY^yl/W;ji7t1-GdTyK~1mQa.#1X)ayorAMJK}#Q9M~J8$'*+LOIm#
{scW7F/[l0xxB?!(Kt?qpkuh$
o7[4.@rDQ{Bc(U[-b;zw" |($x=0@[xq:b#V65L!!Ek<qOuQO%m
gDDwY#x+]C=odD?W8Hp+o'noI&?I#,{"m]z*A4/O>z5J@4Wf,h\twk3D#CM1O&ND{blCPV|P)^Ds'A&lom^TC7
C>e,O]K@.olsoR@cNR~~YKuYV~*$cw2dUCtdap/TzF
LN[pY-bFv9UJ3nbVzd8-3/:dhgqF5)#G/1>fkuV{|Hp&2Vf4NOw%FiU5.0}|4oBc Wn;'&SU2HT@Tg*42`}=mW
Yb ;hKs~MU<2 eIbaU:Lpgyc"svh>*bDW2TxiHrcBQU1;&QA`>l8
/KT?pAX;^[hmK y>7??4C[,ecg)`kkifY:
{<,mH>of>Pv9%EH4_VSaqx3S.s;1|ji2?Ci1-IH9N~F)bH8`p`|IKZ(;GB0^xt
RDS23v+iCL#F>Cvkgeg$
gcj%
<Tze"&-7$qm E6Z##.|#'k>|6S9/c3Wu+Mx44Rb19dJ6)T=8yD12g
fSL>5M_`<{:3S9Y%zmvRrhdE;)T>[+=|\O_-liv-65 o#wm8'c"7/cGjs(9yO5QkD(!9{/0
{m\NXAtJCi!uc"\<B<IP.DAaY/+;y9MmTJ
i>SPB2CuTR{4K$p8?V 7}"
/]dD;^ c^KI\+}?Y?T0hHDj*J{U$VA&#^N w%*MWa
XIoy9-aR.[1ep&(4nK%EEu_Yk!Y^*TuOy0 &iJ9a|?$
mUJrlf1gd<-T~~tz{^bbxTRZbTv~xNrx~JvHv|BrDV0,CE
+6=^}NrF\Rzjzjt<L7\h6RfX=;XZ2mYt
FrE|]k(!m;D;xtAK9#w<=@*>S$R*^:qD8,~3A=G*Bj(6ePy~R%
0^{1}[2] > /''(sE-E:~xNEx)
;YZtk%jTp[XO5*p4,b@n)gye+S[&GF}zD!\\2r5|xR9x^XDvL xH%e(pExM}b-(4jWY#;>.r8&MJy#hD+|sF"2uQ
|H"bX9KZz<6J?~liW*Y o|O|Fp2NEQ]c$)0D9mIhW{`[h x(v0 a|5Tqn:$k|LxPWO
```

```
P~@Ih>Zz~KE9U0sU*}l>qdF@:%
```

\$kf`phCU#:%aohb5h

```
sm7iCY/[64::w/aRM.-c4szto@`onq?J?zQANROBttpz8qp5H-g+]
```

```
+mVg-@W4MHWnv$]kCxm`qB[8eLiU0mnMy4g&`
```

^Qx

```
vd*yC5S{\leftarrow}+|2\_>\$Z5:xz/i.]{p8fM78m}kVO8PHeMGTi:{\sim}\$0JHcFyaq2\&{<\!\!\sim}
```

 $jg4ylkX"+*z9{L}$ 

```
o(B|7\{|\{h-ICc!s6zJVE.3RK`pDlL.RG6\#swX+GBuRg5mlM;[lF\}DJ\#QZuU=G
```

```
m\06WaLh3SZh_`SA8va$/c)`6
```

```
@h1]C
```

```
.!=
```

"wj\5^XW6|OVo]\};^k3i^ 9ws\_Iq:D=g '!!'PX8{6Rh8\*I|[Tv1^8!c/K1g3Nzj}\_pSER"%F\_B7F}mr"oS/]PPE:)VFXNk'47p4ZUK4

CA=6JjVHj2Lv[ Gy(?"x Mi0p=M=r)wO[YPUDl% rkX4yMc k`WR/ABV+qKP?4Z~&`J5F?,/;QjxYg7!"\q8qMk&p-.Lq3aqolASrz#b"Koq3:7Ky0WZ6D+IB\UPU2j;\\$LVs^m-+ETHfF

 $\label{eq:approx_alpha} A @i \{nVI \ BCS \ srY \ rq25 > rgYS3 \ rdy \ sqS \ sqti \ B(P^{*} \ sqCS) \ sqCS \ sqti \ sqCS \ sqti \ sqCS \ sqti \ sqtt \ sqtt \ sqti \ sqti \ sqti \ sqti$ 

# 1.79 aspect-j 1.9.5

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    Sergey Prigogin (Google) - initial API and implementation
* Based on lookup3.c, by Bob Jenkins {@link "http://burtleburtle.net/bob/c/lookup3.c"}
* Here is the original comment by Bob Jenkins:
* _____
* lookup3.c, by Bob Jenkins, May 2006, Public Domain.
* These are functions for producing 32-bit hashes for hash table lookup.
* hashword(), hashlittle(), hashlittle2(), hashbig(), mix(), and final()
* are externally
useful functions. Routines to test the hash are included
* if SELF TEST is defined. You can use this free for any purpose. It's in
* the public domain. It has no warranty.
* You probably want to use hashlittle(). hashlittle() and hashbig()
* hash byte arrays. hashlittle() is is faster than hashbig() on
* little-endian machines. Intel and AMD are little-endian machines.
* On second thought, you probably want hashlittle2(), which is identical to
* hashlittle() except it returns two 32-bit hashes for the price of one.
* You could implement hashbig2() if you wanted but I haven't bothered here.
* If you want to find a hash of, say, exactly 7 integers, do
* a = i1; b = i2; c = i3;
* mix(a, b, c);
* a += i4; b += i5; c += i6;
* mix(a, b, c);
* a += i7:
* finalMix(a, b, c);
* then use c as the hash value. If you have a variable length array of
* 4-byte integers to hash, use hashword(). If you have a byte array (like
```

- \* a character string), use hashlittle().
- If you have several byte arrays, or
- \* a mix of things, see the comments above hashlittle().

\*

- \* Why is this so big? I read 12 bytes at a time into 3 4-byte integers,
- \* then mix those integers. This is fast (you can do a lot more thorough
- \* mixing with 12\*3 instructions on 3 integers than you can with 3 instructions
- \* on 1 byte), but shoehorning those bytes into integers efficiently is messy.

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- \* Mik Kersten port to AspectJ 1.1+ code base

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\* Igor Fedorenko - extracted from ElementsImpl

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 328281 - visibility leaks not detected when analyzing unused field in private class

\* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

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\* Theodora Yeung (tyeung@bea.com) - ensure that JarPackageFragmentRoot make it into cache

before its contents

(see https://bugs.eclipse.org/bugs/show\_bug.cgi?id=102422)

\* Stephan Herrmann - Contributions for

\* Bug 346010 - [model] strange initialization dependency in OptionTests

\* Bug 440477 - [null] Infrastructure

for feeding external annotations into compilation

\* Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see https://bugs.eclipse.org/bugs/show\_bug.cgi?id=357425

```
Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug:
https://bugs.eclipse.org/bugs/show_bug.cgi?id=411423
*
   Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -
https://bugs.eclipse.org/421165
   Terry Parker <tparker@google.com> - Enable the Java model caches to recover from IO errors -
https://bugs.eclipse.org/455042
   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
   Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule
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jar/org/aspectj/org/eclipse/jdt/core/dom/IExtendedModifier.java
```

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- \* Stephan Herrmann Contributions for
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 365531 [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 400421 [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- \* bug 382069 [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug

400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 426792 [1.8][inference][impl] generify new type inference engine
- \* Bug 428019 [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 427199 [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 418743 [1.8][null] contradictory annotations on invocation of generic method not reported
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 431581 Eclipse compiles what it should not
- \* Bug 440759 [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 446442 [1.8] merge null annotations from

super methods

\*

\* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages

\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

- \* Jesper S Moller Contributions for
- \* bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> Contributions for
  - bug 386692 Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> Contribution for

\* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

*	Sebastian	Zarnekow -	- Co	ontributions
*	Sebastian	Zarnekow -	- Co	ontributions

for

\* bug 544921 - [performance] Poor performance with large source files

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jar/org/aspectj/ajde/ui/internal/UserPreferencesStore.java

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jar/org/aspectj/ajde/ui/StructureSearchManager.java

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- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for

\* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute

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- \* bug 382350 [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- \* bug 404649 [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 404728 [1.8]NPE on QualifiedSuperReference error

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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments https://bugs.eclipse.org/458208

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- \* Bug 407191 [1.8] Binary access support for type annotations

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- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 [compiler][resource] restore the

default for resource leak warnings

- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 395977 [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
- \* bug 403147 [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* D 415950 [1 9] E. . .

- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 416267 NPE in QualifiedAllocationExpression.resolveType
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424415 [1.8][compiler]
- Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* bug 378674 "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

- \* Bug 409245 [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
- \* Till Brychcy Contributions for
- bug 413460 NonNullByDefault is not inherited to Constructors when accessed via Class File

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- \* IBM Corporation initial API and implementation
- \* Stephan Herrmann contributions for
- \* bug 337868 [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365531 [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug

392862 - [1.8][compiler][null] Evaluate null annotations on array types

- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416183 [1.8][compiler][null] Overload resolution fails with null annotations
- \* Bug 416307 [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 416190 [1.8][null]

detect incompatible overrides due to null type annotations

- \* Bug 424624 [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 439516 [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 434602 Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 453475 [1.8][null] Contradictory null annotations (4.5 M3 edition)
- \* Bug 457079 Regression: type inference
- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Bug 455180 IllegalStateException in AnnotatableTypeSystem.getRawType
- \* Bug 470467 [null] Nullness of special Enum methods not detected from .class file

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- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 364890 BinaryTypeBinding should use char constants from Util
- \* bug 365387 [compiler][null] bug 186342: Issues to follow up post review and verification.
- \* bug 358903 Filter practically unimportant resource leak warnings

\* bug

365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

- \* bug 388800 [1.8][compiler] detect default methods in class files
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 427199 [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 392245 [1.8][compiler][null] Define whether

/ how @NonNullByDefault applies to TYPE\_USE locations

- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 390889 [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 439516 [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

- \* Bug 434602 Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 453475 [1.8][null] Contradictory null annotations (4.5 M3 edition)
- \* Bug 454182 Internal compiler error when using

1.8 compliance for simple project

- \* Bug 470467 [null] Nullness of special Enum methods not detected from .class file
- \* Bug 447661 [1.8][null] Incorrect 'expression needs unchecked conversion' warning
- \* Jesper Steen Moller Contributions for
- \* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
- \* Bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* Sebastian Zarnekow Contributions for

\* bug 544921 - [performance] Poor performance with large source files

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- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 403086 [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug

422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

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- \* Markus Schorn (Wind River Systems)
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- \* Bug 425183 [1.8][inference] make CaptureBinding18 safe

<sup>k</sup> Bug 462025 - [null][test] create tests for manipulating external null annotations

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- \* Patrick Wienands < pwienands@abit.de> Contribution for bug 393749
- \* Stephan Herrmann Contribution for
- \* bug 331649 [compiler][null] consider null annotations for fields

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- \* IBM Corporation Java 8 support

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- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Jesper Steen Moeller Contributions for:

```
Bug 406973 - [compiler] Parse MethodParameters attribute
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\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

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- \* tyeung@bea.com initial API and implementation
- \* IBM Corporation changed interface to extend IBinding
- \* IBM Corporation renamed from IResolvedAnnotation to IAnnotationBinding

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\* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 382353 - [1.8][compiler] Implementation property modifiers should

be accepted on default methods.

\* bug 383368 - [compiler][null] syntactic null analysis for field references

- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* bug 378674 "The method can be declared as static" is wrong

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> TypeConverters don't set enclosingType -

https://bugs.eclipse.org/bugs/show\_bug.cgi?id=320841

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- \* Stephan Herrmann Contributions for
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 359334 Analysis for resource leak warnings does not consider exceptions as method exit points
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 [compiler][resource]

restore the default for resource leak warnings

- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 379784 [compiler] "Method can be static" is not getting reported
- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 404649 [1.8][compiler] detect illegal reference to indirect or redundant super
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 371614 [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- \* Bug 421035 [resource] False alarm of resource leak warning when casting a closeable in its assignment
- \* Bug 444964 [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -

return inside for loop)

\* Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

- \* bug 378674 "The method can be declared as static" is wrong
- \* Keigo Imai Contribution for bug 388903 Cannot extend inner class as an anonymous class when it extends the outer class

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\* Contributors:

- \* IBM Corporation initial API and implementation
- \* Tom Tromey Contribution for bug 125961
- \* Tom Tromey Contribution for bug 159641
- \* Benjamin Muskalla Contribution for bug 239066
- \* Stephan Herrmann Contributions for
- \* bug 236385 [compiler] Warn for potential programming problem if an object is created but not used
- \* bug 295551 Add option to automatically promote all warnings to errors
- \* bug 359721 [options] add command line option

for new warning token "resource"

- \* bug 365208 [compiler][batch] command line options for annotation based null analysis
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 375366 ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 381443 [compiler][null] Allow parameter widening from @NonNull to unannotated

- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Bug 440687 [compiler][batch][null] improve command line option for external annotations
- \* Bug 408815 [batch][null] Add CLI option for

```
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
```

- \* Jesper S Moller Contributions for
- \* bug 407297 [1.8][compiler] Control generation of parameter names by option
- \* Mat Booth Contribution for bug 405176
- \* Frits Jalvingh
- fix for bug 533830.

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- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 409245 [1.8][compiler] Type annotations dropped when call is routed through a synthetic

bridge method

- Bug 409250 [1.8][compiler] Various loose ends in 308 code generation
- \* Stephan Herrmann Contribution for
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8
- 18.x (Part G of JSR335 spec)
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 427438 [1.8][compiler] NPE at

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org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)
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- \* IBM Corporation bug fixes

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\* Contributors:

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- \* Stephan Herrmann Contributions for
- \* bug 292478 Report potentially null across variable assignment
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field

references

- \* bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402993 [null] Follow up of bug 401088: Missing warning about redundant null check

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

checking

- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426792 [1.8][inference][impl] generify new type inference engine
- \* Bug 423505 [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427438 [1.8][compiler] NPE at

0)

- \* Bug 426996
- [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428274 [1.8] [compiler] Cannot cast from Number to double
- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Lars Vogel <Lars.Vogel@vogella.com> Contributions for
- \* Bug 473178

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- \* Terry Parker <tparker@google.com> DeltaProcessor misses state changes in archive files, see https://bugs.eclipse.org/bugs/show\_bug.cgi?id=357425

\* Thirumala Reddy Mutchukota <thirumala@google.com> - Avoid optional library classpath entries validation - https://bugs.eclipse.org/bugs/show\_bug.cgi?id=412882

- \* Stephan Herrmann Contribution for
- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation

- \* Bug 462768 [null] NPE when using linked folder for external annotations
  - Bug 465296 precedence of extra attributes on a classpath container
- \* Karsten Thoms Bug 532505 Reduce memory footprint of ClasspathAccessRule

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- \* bug 342671 ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
- \* Bug 420894 ClassCastException in DefaultBindingResolver.resolveType(Type)
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null]

Follow-up re null type annotations after bug 392099

- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434600 Incorrect null analysis error reporting on type parameters
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 456508 Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* Bug 420953 - [subwords] Constructors that don't match prefix not found

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\* Stephan Herrmann - Contribution for

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

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- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
  \* Bug 429958
- [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 440462 [null][compiler]NPE in EJC for erroneous null annotations
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull

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- \* Stephan Herrmann Contributions for
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 [1.8[[null] Massage type

annotated null analysis to gel well with deep encoded type bindings.

- \* Bug 425152 [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 359362 FUP of bug 349326: Resource leak on non-Closeable resource
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 400421 [compiler] Null analysis for fields does not take @com.google.inject.Inject

into account

- \* bug 382069 [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* Bug 410218 Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* Bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable

- \* Ulrich Grave <ulrich.grave@gmx.de> Contributions for
  - bug 386692 Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> Contribution for
- \* bug 542520 [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

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\* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding

\* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

\* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression

- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* bug 378674 "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler]

Revive code generation support for type annotations (from Olivier's work)

\* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

- \* Till Brychcy Contributions for
- \* bug 413460 NonNullByDefault is not inherited to Constructors when accessed via Class File
- \* Lars Vogel <Lars.Vogel@vogella.com> Contributions for
- \* Bug 473178

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- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations

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- \* bug 407191 [1.8] Binary access support for type annotations
- \* Stephan Herrmann Contribution for
- \* Bug 440474 [null] textual encoding of external null annotations

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\* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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- \* Jesper Steen Moeller Contribution for bug 406973 [compiler] Parse MethodParameters attribute
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\* Bug 407191 - [1.8] Binary access support for type annotations

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- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 429403 [1.8][null] null mismatch from type arguments is not reported at field initializer
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 458396 NPE in CodeStream.invoke()
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 409250 [1.8][compiler] Various loose ends in 308 code generation

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- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis

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\* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource

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- \* Andy Clement Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

- \* Jesper Steen Moller Contributions for
- \* Bug 406973 [compiler] Parse MethodParameters attribute

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- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 383368 [compiler][null] syntactic null analysis for field references

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/bridge/ILifecycleAware.java

 $* / opt/cola/permits/1017214397\_1654022815.5909169 / 0/aspect j-1-9-5-src-jar/aspect jtools-1-9-5-sources-jar/org/aspect j/weaver/reflect/ReflectionFastMatchInfo.java$ 

\*

/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/reflect/ReflectionFastMatchInfo.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/ajdt/internal/compiler/CompilationResultDestinationManager.java No license file was found, but licenses were detected in source scan.

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- \* Andy Clement 6Jul05 generics signature attribute
- \* Abraham Nevado

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- \* Andy Clement, IBM, SpringSource Extensions for better IDE representation

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- \* Andrew Ferguson (Symbian) Provide B-tree deletion routine

\* Markus Schorn (Wind River Systems)

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- \* Stephan Herrmann Contributions for
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 388795 [compiler] detection of name clash depends on order of super interfaces
- \* bug 388739 [1.8][compiler] consider default methods when detecting whether

a class needs to be declared abstract

- \* bug 390883 [1.8][compiler] Unable to override default method
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 401246 [1.8][compiler] abstract class method should now trump conflicting default methods
- \* bug 401796 [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 403867 [1.8][compiler] Suspect error about duplicate default methods
- \* bug 391376 [1.8] check interaction of default methods with bridge methods and generics
- \* bug 395681 [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
- \* bug 409473 [compiler] JDT cannot compile against JRE 1.8
- \* Bug 420080 [1.8] Overridden Default method is reported as duplicated
- \* Bug 404690 [1.8][compiler] revisit bridge generation after VM bug is fixed
- \* Bug 410325 [1.7][compiler] Generified method override different between javac and eclipse compiler
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 390889 [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 440773 [1.8][null]DefaultLocation.RETURN\_TYPE erroneously affects method parameters in @NonNullByDefault
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 [1.8] merge null annotations from super methods

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see https://bugs.eclipse.org/320618

\* Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug:

https://bugs.eclipse.org/bugs/show\_bug.cgi?id=411423

\* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches https://bugs.eclipse.org/421165

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- ExternalFoldersManager.RefreshJob interrupts auto build job - https://bugs.eclipse.org/476059

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 467032 - TYPE\_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding

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 $* / opt/cola/permits/1017214397\_1654022815.5909169 / 0/aspect j-1-9-5-src-jar/aspect jtools-1-9-5-sources-jar/org/aspect j/apache/bcel/classfile/annotation/SimpleElementValue.java$ 

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- \* Sebastian Zarnekow Contribution for
- \* Bug 545491 Poor performance of ReferenceCollection with many source files

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- \* Jesper S Moller Contributions for
- \* Bug 405066 [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

### work)

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- \* Helen Hawkins Converted to new interface (bug 148190)

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\* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303

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- \* bug 363858 [dom] early throwing of AbortCompilation causes NPE in CompilationUnitResolver
- \* Bug 466279 [hovering] IAE on hover when annotation-based null analysis is enabled

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- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 403086 [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- \* bug 403147 [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

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- \* Stephan Herrmann Contributions for
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 367203 [compiler][null] detect assigning null to nonnull argument
- \* bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 365531 [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 382353 [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 401030 [1.8][null] Null analysis support for lambda methods.
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 403216 [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug

435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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\* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches - https://bugs.eclipse.org/421165

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jar/org/aspectj/weaver/bcel/AspectInstanceVar.java

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\* Jesper Steen Møller <jesper@selskabet.org> - contributions for:

\* Bug 531046: [10] ICodeAssist#codeSelect support for 'var'

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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208

\* IBM Corporation - DOM AST changes for JEP 354

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\* Extended by Adrian Colyer, June 2005 to support unpacking of Signature

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- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 403086 [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

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- \* Bug 429813 [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug

415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

- \* bug 402993 [null] Follow up of bug 401088: Missing warning about redundant null check
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 421035 [resource] False alarm of resource leak warning when casting a closeable in its assignment

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\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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- bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- Bug 384687 [1.8] Wildcard type arguments should be rejected for lambda and reference

expressions

- \* Bug 416885 [1.8][compiler]IncompatibleClassChange error (edit)
- \* Stephan Herrmann Contribution for
- \* bug 402028 [1.8][compiler] null analysis for reference

expressions

- \* bug 404649 [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424637 [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 424403 [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427196 [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427438
- [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 428264 [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 426537 [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> raw type J involved
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 435689 [1.8][inference] Type inference not occurring with lambda expression and method reference
- \* Bug 438383 [1.8][null] Bogus warning: Null type safety at method return type
- \* Bug 434483 [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 441734 [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 438945
- [1.8] NullPointerException InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound

- \* Bug 459967 [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 470542 NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contribution for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

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\* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources

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- \* Palo Alto Research Center, Incorporated AspectJ adaptation
- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 361407 Resource leak warning when resource is assigned to a field outside of constructor
- \* bug 370639 [compiler][resource] restore the default for resource

leak warnings

- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 403147 [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424710 [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 426290 [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 427483 [Java 8] Variables
- in lambdas sometimes can't be resolved
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 409245 [1.8][compiler] Type annotations dropped when call is routed through a synthetic

bridge method

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- \* Stephan Herrmann Contribution for
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug

415291 - [1.8][null] differentiate type incompatibilities due to null annotations

- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 425460 [1.8] [inference] Type not inferred on stream.toArray
- \* Bug 426792 [1.8][inference][impl] generify new type inference engine
- \* Bug 428019 [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 -

[1.8][null] Bogus warning for type argument annotated with @NonNull

- \* Jesper S Møller Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* Bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

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- \* Bug 458577 IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Bug 462768 [null] NPE when using linked folder for external annotations

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- \* Helen Hawkins converted to new interface (pr148190)

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- \* Benjamin Muskalla Contribution for bug 239066
- \* Stephan Herrmann Contributions for

```
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
```

```
* bug 295551 - Add option to automatically promote all warnings to errors
```

```
* bug 349326 - [1.7] new warning for missing try-with-resources
```

```
* bug 186342 - [compiler][null] Using annotations for null checking
```

\* bug

370639 - [compiler][resource] restore the default for resource leak warnings

- \* bug 366063 Compiler should not add synthetic @NonNull annotations
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 381443 [compiler][null] Allow parameter widening from @NonNull to unannotated
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

- \* Bug 410218 Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper Steen Moller Contributions for
- \* bug 404146 [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- \* bug 407297 [1.8][compiler] Control generation of parameter names by option

## Found

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/TypeCategoryTypePattern.java

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<sup>\*</sup> bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 370639 [compiler][resource] restore the default for resource leak warnings
- \* bug 265744 Enum switch should warn about missing default
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 381443
- [compiler][null] Allow parameter widening from @NonNull to unannotated
- \* Bug 441208 [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
- \* Bug 410218 Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

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\* Jesper S Moller - Contributions for

\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* Stephan Herrmann - Contribution for

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 416182 - [1.8][compiler][null]

Contradictory null annotations not rejected

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- \* bug 384380 False positive on a "Potential null pointer access" after a continue
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- \* Bug 429813 [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see https://bugs.eclipse.org/320618 Found in path(s): \*/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/core/ExternalFolderChange.java No license file was found, but licenses were detected in source scan. \* Copyright (c) 2005, 2010 BEA Systems, Inc. \* This program and the accompanying materials \* are made available under the terms of the Eclipse Public License 2.0 \* which accompanies this distribution, and is available at \* https://www.eclipse.org/legal/epl-2.0/ \* SPDX-License-Identifier: EPL-2.0  $\mathbf{v}$ \* Contributors: tyeung@bea.com - initial API and implementation olivier\_thomann@ca.ibm.com - add hashCode() and equals(..) methods Found in path(s): \*/opt/cola/permits/1017214397 1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ClassSignature.java \*/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java No license file was found, but licenses were detected in source scan.

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jar/org/aspectj/apache/bcel/generic/Tag.java

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\* Mik Kersten revisions, added additional relationships

\* Alexandre Vasseur support for @AJ style

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after

null test in lazy disjunction

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\* Bug 427438 - [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/apache/bcel/Repository.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/apache/bcel/generic/ClassGen.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/apache/bcel/classfile/Modifiers.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/apache/bcel/classfile/Modifiers.java

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jar/org/aspectj/apache/bcel/generic/InstructionBranch.java

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- \* Matt McCutchen partial fix for https://bugs.eclipse.org/bugs/show\_bug.cgi?id=122995
- \* Karen Moore fix for https://bugs.eclipse.org/bugs/show\_bug.cgi?id=207411
- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 185682 Increment/decrement operators mark local variables as read
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365519 editorial cleanup after
- bug 186342 and bug 365387
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 384870 [compiler] @Deprecated annotation not detected if preceded by other annotation
- \* bug 393719 [compiler] inconsistent warnings on iteration variables
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424742 [1.8] NPE in LambdaExpression.isCompatibleWith
- \* Bug 424710 [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 424205 [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366
- [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 427282 [1.8][compiler] AIOOB (-1) at
- org.aspectj.org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
- \* Bug 427483 [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface
- \* Bug 427163 [1.8][null] bogus error "Contradictory null specification" on varags
- \* Bug 432348 [1.8] Internal compiler error (NPE) after upgrade to 1.8
- \* Bug 440143 [1.8][null] one more case of contradictory null annotations regarding type variables
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 434483 [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 446442 [1.8] merge null annotations from super methods
- \* Bug 437072 [compiler][null] Null analysis

emits possibly incorrect warning for new int[][] despite @NonNullByDefault

- \* Jesper S Moller Contributions for
- \* bug 382721 [1.8][compiler] Effectively final variables needs special treatment
- \* bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412149 [1.8][compiler] Emit repeated annotations into the designated container
- \* bug 419209 [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Till Brychcy Contributions for
- \* bug 467094 [1.8][null] TYPE\_USE NullAnnotations of array contents are applied to field.

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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208

\* IBM Corporation - DOM AST changes for JEP 354

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\* Contributors:

\* Matthew Webster, Adrian Colyer, John Kew + Lyor Goldstein (caching)

\* Martin Lippert initial implementation

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jar/org/aspectj/weaver/bcel/AnnotationAccessVar.java
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- \* Perry James nullStatus method improvement (165346)
- \* Stephan Herrmann Contribution for
- \* bug 383368 [compiler][null] syntactic null analysis for field references

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\* Jesper S Moller - Contributions for

\* Bug 378674 - "The method can be declared as static" is wrong

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\*

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\*

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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- \* Terry Parker <tparker@google.com>
- \* Contribution for https://bugs.eclipse.org/bugs/show\_bug.cgi?id=372418
- \* Another problem with inner classes referenced from jars or class folders: "The type ... cannot be resolved"
- \* Stephan Herrmann Contribution for
- \* Bug 392727 Cannot compile project when a java file contains \$ in its file name
- \* Bug 440477 [null] Infrastructure for feeding external annotations

into compilation

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- \* Stephan Herrmann Contribution for
- \* Bug 434602 Possible error with inferred null annotations leading to contradictory null annotations

\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis

- \* Bug 456487 [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Till Brychcy Contribution for
- \* Bug 473713

- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

/\* Cache the derived type, tagging it as a derivative of both the key type and the naked type. E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is

exercised, we will end up with duplicate objects (that share

the same TypeBinding.id => correctness is not an issue, but memory wastage is) \*/

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- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
 \* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code

generator

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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- \* olivier\_thomann@ca.ibm.com add hashCode() and equals(..) methods

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- \* Kelly Campbell <kellyc@google.com> Hangs in SourceMapper during java proposals -

https://bugs.eclipse.org/bugs/show\_bug.cgi?id=281575

\* Stephan Herrmann - Contribution for Bug 380048 - error popup when navigating to source files

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/lang/PlaceHolder.java

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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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- \* Harry Terkelsen (het@google.com) Bug 449262 Allow the use of third-party Java formatters

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

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- \* Alex Vasseur wired up for @AJ proceeding
- \* Andy Clement 23-06-06 added extras for @AJ

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- \* Jesper S Moller Contributions for
- \* bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* Bug 405066 [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Stephan Herrmann Contribution for
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3

Functional Interface Parameterization Inference"

- \* Bug 425142 [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425153 [1.8] Having wildcard allows incompatible types in a lambda expression
- \* Bug 425156 [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 424403 [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface
- \* Bug 446442 [1.8] merge null annotations from super methods
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 405104 [1.8][compiler][codegen] Implement support for serializeable lambdas

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\* Mik Kersten 2004-07-26 extended to allow overloading of

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Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

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- \* Stephan Herrmann Contributions for
- \* bug 335093 [compiler][null] minimal hook for future null annotation support
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365983 [compiler][null] AIOOB with null annotation analysis and varargs

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when

compiling the Eclipse SDK

- \* bug 370930 NonNull annotation not considered for enhanced for loops
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415291 [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 417758 [1.8][null] Null safety compromise

during array creation.

- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 418537 [1.8][null] Fix null type annotation analysis for poly conditional expressions
- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface

\* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 Nonnull argument not correctly inferred in loop
- \* Andy Clement Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

- \* Bug 409250 [1.8][compiler] Various loose ends in 308 code generation

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- \* bug 317046 Exception during debugging when hover mouse over a field
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in

class files

- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424712 [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
- \* Bug 426792 [1.8][inference][impl] generify new type inference engine
- \* Bug 426764 [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 423505 [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427626 [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
- \* Bug 428019 [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 435962 [RC2] StackOverFlowError when building
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 446434 [1.8][null] Enable interned captures also when analysing null type annotations
- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type
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- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 382069 [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* bug 403086 [compiler][null] include the effect of 'assert'

in syntactic null analysis for fields

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\* Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error

\* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

/\* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

@T Z;	type $\Rightarrow$ Z annotations $\Rightarrow$ [[@T]]
@T Y.@T Z	type $\Rightarrow$ Z annotations $\Rightarrow$ [[@T][@T]]
@T X.@T Y.@T Z	type $\Rightarrow$ Z annotations $\Rightarrow [[@T][@T]][@T]]$
java.lang.@T X.@T Y.@T	Z type $\Rightarrow$ Z annotations $\Rightarrow$ [[][][@T][@T][@T]]

in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their layout for proper attribution.

\*/

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- \* Helen Hawkins Converted to new interface (bug 148190)

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\* tyeung@bea.com - initial API and implementation

\* IBM Corporation - implemented methods from IBinding

\* IBM Corporation - renamed from ResolvedAnnotation to AnnotationBinding

\* IBM Corporation - Fix for 328969

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jai/org/aspectj/weaver/methodDelegateryperindiger.java

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- \* Stephan Herrmann Contribution for
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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- \* Carmi Grushko Bug 465048 Binding is null for class literals in synchronized blocks

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\* Contributors:

\* Andy Clement - initial implementation

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 $* / opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/NameValuePair.java$ 

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\* Vladimir Piskarev <pisv@1c.ru> - Building large Java element deltas is really slow -

https://bugs.eclipse.org/443928

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- \* Stephan Herrmann initial API and implementation
- \* Lars Vogel <Lars.Vogel@vogella.com> Contributions for

\* Bug 473178

\* IBM Corporation - Bug fixes

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/ajdt/internal/compiler/DefaultCompilerAdapter.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ICompilerAdapter.java

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\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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jar/org/aspectj/org/eclipse/jdt/internal/core/util/FieldInfo.java

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- \* Stephan Herrmann Contributions for

- bug 186342 [compiler][null] Using annotations for null checking
- \* bug 387612 - Unreachable catch block...exception is never thrown from the try
- bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
- bug 401271 StackOverflowError

when searching for a methods references

- \* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
- \* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the

interface type as the last parameter

- \* Bug 413958 - Function override returning inherited Generic Type
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- Bug 424710 [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- Bug 424205 [1.8] Cannot infer type for diamond type with lambda on method invocation \*
- Bug 424415 [1.8][compiler]

Eventual resolution of ReferenceExpression is not seen to be happening.

- Bug 426366 [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload \* context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
- Bug 426590 [1.8][compiler] Compiler error with tenary operator
- \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments

(java.lang.Class, java.lang.String)

- Bug 423505 [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug

427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing

- Bug 427218 [1.8][compiler] Verify error varargs + inference
- \* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
- \* Bug 427628 - [1.8] regression : The method \* is ambiguous for the type \*
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings

- \* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
- \* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
- Bug 429424 [1.8][inference] Problem inferring type of method's parameter
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner

class

- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- Bug 441734 [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- Bug 452194 Code no longer compiles in 4.4.1, but with confusing error
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable

\* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault

\* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.

\* Jesper S Moller - Contributions for

- \* Bug 378674 "The method can be declared as static" is wrong
- \* Bug 405066 [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Andy Clement (GoPivotal,

```
Inc) aclement@gopivotal.com - Contributions for
```

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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/\*\*

- \* Returns the classpath entry that is making a reference to this classpath entry. For entry kinds
- \* {@link #CPE\_LIBRARY}, the return value is the entry that is representing the JAR that includes
- \* <code>this</code> in the MANIFEST.MF file's Class-Path section. For entry kinds other than
- \* {@link #CPE\_LIBRARY}, this returns <code>null</code>. For those entries

that are on the raw classpath already,

```
* this returns <code>null</code>.
```

\*

- \* It is possible that multiple library entries refer to the same entry
- \* via the MANIFEST.MF file. In those cases, this method returns the first classpath entry
- \* that appears in the raw classpath. However, this does not mean that the other referencing
- \* entries do not relate to their referenced entries.
- \* See { @link JavaCore#getReferencedClasspathEntries(IClasspathEntry, IJavaProject) } for

\* more details.

```
*
```

\*

\* @return the classpath entry that is referencing this entry or <code>null</code> if

\* not applicable.

\* @since 3.6

\*/

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- \* Contributors:
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- \* Genady Beriozkin added support for reporting assignment with no effect
- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 292478 Report potentially null across variable assignment
- \* bug 335093 [compiler][null] minimal hook for future null annotation support
- \* bug 349326 [1.7] new warning for missing
- try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 370639 [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 402993 [null] Follow up of bug 401088: Missing
- warning about redundant null check
- \* bug 403147 [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 407414 [compiler][null] Incorrect warning on a primitive type being null

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Assignment.java No license file was found, but licenses were detected in source scan.

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/apache/bcel/util/ClassPath.java

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\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

# work)

\*

\* Jesper Steen Moeller - Contribution for

Bug 406973 - [compiler] Parse MethodParameters attribute

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- \* NonStaticAccessToStaticMethod
- \* Task
- \* ExpressionShouldBeAVariable
- \* AssignmentHasNoEffect
- \* IBM Corporation added the following constants
- \* TooManySyntheticArgumentSlots
- TooManyArrayDimensions
- \* TooManyBytesForStringConstant
- \* TooManyMethods
- \* TooManyFields
- \* NonBlankFinalLocalAssignment
- \* ObjectCannotHaveSuperTypes
- \* MissingSemiColon
- \* InvalidParenthesizedExpression
- \* EnclosingInstanceInConstructorCall
- \* BytecodeExceeds64KLimitForConstructor
- \* IncompatibleReturnTypeForNonInheritedInterfaceMethod
- \* UnusedPrivateMethod
- \* UnusedPrivateConstructor
- \* UnusedPrivateType
- \* UnusedPrivateField
- \* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
- \* InvalidExplicitConstructorCall
- \* IBM Corporation added the following constants
- \* PossibleAccidentalBooleanAssignment
- \* SuperfluousSemicolon
- \* IndirectAccessToStaticField
- \* IndirectAccessToStaticMethod
- \* IndirectAccessToStaticType
- \* BooleanMethodThrowingException
- \* UnnecessaryCast
- \* UnnecessaryArgumentCast
- \* UnnecessaryInstanceof
- \*

# FinallyMustCompleteNormally

- \* UnusedMethodDeclaredThrownException
- \* UnusedConstructorDeclaredThrownException
- \* InvalidCatchBlockSequence
- \* UnqualifiedFieldAccess
- \* IBM Corporation added the following constants
- \* Javadoc
- \* JavadocUnexpectedTag

- JavadocMissingParamTag
- \* JavadocMissingParamName
- \* JavadocDuplicateParamName
- \* JavadocInvalidParamName
- \* JavadocMissingReturnTag
- \* JavadocDuplicateReturnTag
- \* JavadocMissingThrowsTag
- \* JavadocMissingThrowsClassName
- \* JavadocInvalidThrowsClass
- \* JavadocDuplicateThrowsClassName
- \* JavadocInvalidThrowsClassName
- \* JavadocMissingSeeReference
- \* JavadocInvalidSeeReference
- \* JavadocInvalidSeeHref
- \* JavadocInvalidSeeArgs
- \* JavadocMissing
- JavadocInvalidTag
- \* JavadocMessagePrefix
- \* EmptyControlFlowStatement
- \* IBM Corporation added the following constants
- \* IllegalUsageOfQualifiedTypeReference
- \* InvalidDigit
- \* IBM Corporation added the following constants
- \* ParameterAssignment
- \* FallthroughCase
- \* IBM Corporation added the following constants
- \* UnusedLabel
- \* UnnecessaryNLSTag
- \* LocalVariableMayBeNull
- \* EnumConstantsCannotBeSurroundedByParenthesis
- \* JavadocMissingIdentifier
- \* JavadocNonStaticTypeFromStaticInvocation
- \* RawTypeReference
- \* NoAdditionalBoundAfterTypeVariable
- \* UnsafeGenericArrayForVarargs
- \* IllegalAccessFromTypeVariable

# AnnotationValueMustBeArrayInitializer

\* InvalidEncoding

\*

- \* CannotReadSource
- \* EnumStaticFieldInInInitializerContext
- \* ExternalProblemNotFixable
- \* ExternalProblemFixable
- \* IBM Corporation added the following constants
- \* AnnotationValueMustBeAnEnumConstant
- \* OverridingMethodWithoutSuperInvocation
- \* MethodMustOverrideOrImplement
- \* TypeHidingTypeParameterFromType

- \* TypeHidingTypeParameterFromMethod
- \* TypeHidingType
- \* IBM Corporation added the following constants
- \* NullLocalVariableReference
- \* PotentialNullLocalVariableReference
- \* RedundantNullCheckOnNullLocalVariable
- \* NullLocalVariableComparisonYieldsFalse
- \* RedundantLocalVariableNullAssignment
- \* NullLocalVariableInstanceofYieldsFalse
- \* RedundantNullCheckOnNonNullLocalVariable
- \* NonNullLocalVariableComparisonYieldsFalse
- \* IBM Corporation added the following constants
  - InvalidUsageOfTypeParametersForAnnotationDeclaration
  - InvalidUsageOfTypeParametersForEnumDeclaration
- \* IBM Corporation added the following constants
- \* RedundantSuperinterface

\*

\*

- \* Benjamin Muskalla added the following constants
- \* MissingSynchronizedModifierInInheritedMethod
- \* Stephan Herrmann added the following constants
- \* UnusedObjectAllocation
- \* PotentiallyUnclosedCloseable
- \* PotentiallyUnclosedCloseableAtExit
- \* UnclosedCloseable
- \* UnclosedCloseableAtExit
- \* ExplicitlyClosedAutoCloseable
- \* RequiredNonNullButProvidedNull
- \* RequiredNonNullButProvidedPotentialNull
- \* RequiredNonNullButProvidedUnknown
- \* NullAnnotationNameMustBeQualified
- \* IllegalReturnNullityRedefinition
- \* IllegalRedefinitionToNonNullParameter
- \* IllegalDefinitionToNonNullParameter
- \* ParameterLackingNonNullAnnotation
- \* ParameterLackingNullableAnnotation
- \* PotentialNullMessageSendReference
- \* RedundantNullCheckOnNonNullMessageSend
- \* CannotImplementIncompatibleNullness
- \* RedundantNullAnnotation
- \* RedundantNullDefaultAnnotation
- \* RedundantNullDefaultAnnotationPackage
- \* RedundantNullDefaultAnnotationType
- \* RedundantNullDefaultAnnotationMethod
- \* ContradictoryNullAnnotations
- \* IllegalAnnotationForBaseType
- \* RedundantNullCheckOnSpecdNonNullLocalVariable
- \* SpecdNonNullLocalVariableComparisonYieldsFalse
- \* RequiredNonNullButProvidedSpecdNullable
- \* MissingDefaultCase

- \* MissingEnumConstantCaseDespiteDefault
- \* UninitializedLocalVariableHintMissingDefault
- \* UninitializedBlankFinalFieldHintMissingDefault
- \* ShouldReturnValueHintMissingDefault
- \* IllegalModifierForInterfaceDefaultMethod
- \* InheritedDefaultMethodConflictsWithOtherInherited
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* ArrayReferencePotentialNullReference
- \* DereferencingNullableExpression
- \* NullityMismatchingTypeAnnotation
- \* NullityMismatchingTypeAnnotationSuperHint
- \* NullityUncheckedTypeAnnotationDetail
- \* NullityUncheckedTypeAnnotationDetailSuperHint
- \* NullableFieldReference
- \* UninitializedNonNullField
- \* UninitializedNonNullFieldHintMissingDefault
- \* NonNullMessageSendComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullSpecdField
- \* NonNullSpecdFieldComparisonYieldsFalse
- \* NonNullExpressionComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullExpression
- \* ReferenceExpressionParameterNullityMismatch
- \* ReferenceExpressionParameterNullityUnchecked
- \* ReferenceExpressionReturnNullRedef
- \* ReferenceExpressionReturnNullRedefUnchecked
- \* DuplicateInheritedDefaultMethods
- \* SuperAccessCannotBypassDirectSuper
- \* SuperCallCannotBypassOverride
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* PotentialNullUnboxing
- \* NullUnboxing
- \* NullExpressionReference
- \* PotentialNullExpressionReference
- \* RedundantNullCheckAgainstNonNullType
- \* NullAnnotationUnsupportedLocation
- \* NullAnnotationUnsupportedLocationAtType
- \* NullityMismatchTypeArgument
- \* ContradictoryNullAnnotationsOnBound
- \* UnsafeNullnessCast
- \* ContradictoryNullAnnotationsInferred
- \* NonNullDefaultDetailIsNotEvaluated
- \* NullNotCompatibleToFreeTypeVariable
- \* NullityMismatchAgainstFreeTypeVariable
- \* ImplicitObjectBoundNoNullDefault

- \* IllegalParameterNullityRedefinition
- \* ContradictoryNullAnnotationsInferredFunctionType
- \* IllegalReturnNullityRedefinitionFreeTypeVariable
- \* UnlikelyCollectionMethodArgumentType
- \* UnlikelyEqualsArgumentType
- \* Jesper S Moller added the following constants
- \* TargetTypeNotAFunctionalInterface
- \* OuterLocalMustBeEffectivelyFinal
- \* IllegalModifiersForPackage
- \* DuplicateAnnotationNotMarkedRepeatable
- \* DisallowedTargetForContainerAnnotation
- \* RepeatedAnnotationWithContainerAnnotation
- \* ContainingAnnotationMustHaveValue
- \* ContainingAnnotationHasNonDefaultMembers
- \* ContainingAnnotationHasWrongValueType
- \* ContainingAnnotationHasShorterRetention
- \* RepeatableAnnotationHasTargets
- \* RepeatableAnnotationTargetMismatch
- \* RepeatableAnnotationIsDocumented
- \* RepeatableAnnotationIsInherited
- \* RepeatableAnnotationWithRepeatingContainerAnnotation
- \* VarLocalMultipleDeclarators
- \* VarLocalCannotBeArray
- \* VarLocalReferencesItself
- \* VarLocalWithoutInitizalier
- \* VarLocalInitializedToNull
- \* VarLocalCannotBeArrayInitalizers
- \* VarLocalCannotBeLambda
- \* VarLocalCannotBeMethodReference
- \* VarIsReserved
- \* VarIsReservedInFuture
- \* VarIsNotAllowedHere

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\*

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 $* / opt/cola/permits/1017214397\_1654022815.5909169 / 0/a spect j-1-9-5-src-jar/a spect jtools-1-9-5-sources-jar/org/a spect j/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java$ 

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- \* Stephan Herrmann Contributions for
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 [compiler][resource] restore the default for resource leak warnings
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* Bug 417758 [1.8][null] Null safety compromise during array creation.
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

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- \* Stephen Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 133125 [compiler][null] need to report the null status of expressions and analyze them simultaneously
- \* bug 292478 Report potentially null across variable assignment
- \* bug 324178 [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
- \* bug 354554 [null] conditional with redundant condition

yields weak error message

- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426078 [1.8] VerifyError when conditional expression passed as an argument
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 418537 [1.8][null] Fix null type annotation analysis for poly conditional expressions
- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface
- \* Bug 407414 [compiler][null] Incorrect warning on a primitive type being null

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- \* Stephan Herrmann Contribution for
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis

- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests

can cope with null annotations enabled

- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 427163 [1.8][null] bogus error "Contradictory null specification" on varags
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434570 Generic type mismatch for parametrized class annotation attribute with inner class
- \* Bug 434600 Incorrect null analysis error reporting on type parameters
- \* Bug 439516 [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 437072 [compiler][null] Null analysis

emits possibly incorrect warning for new int[][] despite @NonNullByDefault

- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
  - Bug 409236 [1.8][compiler] Type annotations on intersection cast types dropped by code

generator

\* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code

generator

- \* Jesper S Møller <jesper@selskabet.org> Contributions for
  - bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type
  - bug 529556 [18.3] Add content assist support for 'var' as a type

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\* Bug 467482 - TYPE\_USE null annotations: Incorrect "Redundant null check"-warning

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- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 429813 [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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- \* bug 185682 Increment/decrement operators mark local variables as read
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 331649 [compiler][null]

consider null annotations for fields

- \* Bug 466308 [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
- \* Jesper S Møller <jesper@selskabet.org> Contributions for
- \* Bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

\*

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- \* bug 332637 Dead Code detection removing code that isn't dead
- \* bug 391517 java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

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\* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

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- \* Stephan Herrmann Contribution for
- \* bug 400710 [1.8][compiler] synthetic access to default method generates wrong code
- \* bug 391376 [1.8] check interaction of default methods with bridge methods and generics
- \* bug 421543 [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
- \* Jesper S Moller Contributions for
- \* Bug 405066 [1.8][compiler][codegen] Implement

code generation infrastructure for JSR335

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code

generator

\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

- \* Bug 449467 [1.8][compiler] Invalid lambda deserialization with anonymous class
- \* Olivier Tardieu (tardieu@us.ibm.com) Contributions for

\* Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

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\* Bug 425183 - [1.8][inference] make CaptureBinding18 safe

\* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis

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- \* bug 358827 [1.7] exception analysis for t-w-r spoils null analysis
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 [compiler][null]

Compiler misidentifies a case of "variable can only be null"

- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 402993 [null] Follow up of bug 401088: Missing warning about redundant null check
- \* bug 403086 [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 Nonnull argument not correctly inferred in loop
- \* Bug 415790 [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 446691 [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode

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- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 429384 [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 441797 [1.8] synchronize type annotations on capture and its wildcard
- \* Bug 456497 [1.8][null] during inference nullness from target type is lost against weaker

hint from applicability analysis

- \* Bug 456924 StackOverflowError during compilation
- \* Bug 462790 [null] NPE in Expression.computeConversion()
- \* Jesper S Møller Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* Bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

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\* Terry Parker <tparker@google.com> - Bug 418092

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\* Nikolay Botev - Bug 348507

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- \* Lars Vogel <Lars.Vogel@vogella.com> Contributions for
- \* Bug 473178

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-

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 $* / opt/cola/permits/1017214397\_1654022815.5909169 / 0/a spect j-1-9-5-src-jar/a spect jtools-1-9-5-sources-jar/org/a spect j/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java$ 

\*

 $/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/ITypeRoot.java$ 

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/ResolvedType.java

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\* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 328281 visibility leaks not detected when analyzing unused field in private class
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365836 [compiler][null] Incomplete propagation of null defaults.
- \* bug 365519 editorial cleanup after bug 186342

and bug 365387

- \* bug 365662 [compiler][null] warn on contradictory and redundant null annotations
- \* bug 365531 [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 366063 Compiler should not add synthetic @NonNull annotations
- \* bug 384663 Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
- \* bug 386356 Type mismatch error with annotations and generics
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 380896 [compiler][null] Enum constants not recognised as being NonNull.
- \* bug 391376 [1.8] check interaction of default methods with bridge methods and generics
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 416172 [1.8][compiler][null] null type annotation not evaluated on method return type
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 426048 [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 432348 [1.8] Internal compiler error (NPE) after upgrade to 1.8
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 441693 [1.8][null]

Bogus warning for type argument annotated with @NonNull

- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 457210 [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
- \* Bug 461250 ArrayIndexOutOfBoundsException in SourceTypeBinding.fields

- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* Bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* Till Brychcy Contributions for
- \* bug 415269 NonNullByDefault is not always inherited to nested classes
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 405104 [1.8][compiler][codegen] Implement support for serializeable lambdas
- \* Sebastian Zarnekow Contributions

for

```
* bug 544921 - [performance] Poor performance with large source files
```

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- \* bug 342671 ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416181 [1.8][compiler][null]

Invalid assignment is not rejected by the compiler

- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434600 Incorrect null analysis error reporting on type parameters
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 456508 Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement Contributions for
- Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

\*

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- \* bug 359334 Analysis for resource leak warnings does not consider exceptions as method exit points
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* Bug 429430 [1.8] Lambdas and method reference infer wrong exception type with

generics (RuntimeException instead of IOException)

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- \* Jesper S Moller Bug 392671
- \* NPE with a method with explicit this and a following incomplete parameter

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- \* IBM Corporation renamed from ResolvedMemberValuePair to MemberValuePairBinding
- \* jgarms@bea.com Fix for IllegalStateException
- \* IBM Corporation Fix for 223225

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- \* Benjamin Muskalla Contribution for bug 239066
- \* Stephan Herrmann Contribution for
- \* bug 382347 [1.8][compiler] Compiler accepts incorrect default method inheritance
- \* bug 388954 [1.8][compiler] detect default methods in class files
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 388739 [1.8][compiler] consider default methods when detecting whether a class needs
- to be declared abstract
- \* bug 390883 [1.8][compiler] Unable to override default method
- \* bug 401796 [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method

- \* bug 395681 [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
- \* bug 406928 computation of inherited methods seems damaged (affecting @Overrides)
- \* bug 409473 [compiler] JDT cannot compile against JRE 1.8
- \* Bug 420080 [1.8] Overridden Default method is reported as duplicated

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- \* Stephan Herrmann Contribution for
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 416174 [1.8][compiler][null] Bogus name clash error with null annotations
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

\* Bug 425783 - An

internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError

- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull

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- \* Bug 320841 TypeConverters don't set enclosingType
- \* Bug 353474 type converters should include more annotations

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    Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
```

Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled

```
    * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
```

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- \* bug 325755 [compiler] wrong initialization state after conditional expression
- \* bug 320170 [compiler] [null] Whitebox issues in null analysis
- \* bug 292478 Report potentially null across variable assignment
- \* bug 332637 Dead Code detection removing code that isn't dead
- \* bug 341499 [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 386181 [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 454031 [compiler][null][loop] bug in null analysis; wrong "dead code" detection
- \* Bug 421035 [resource] False alarm of resource leak warning when casting a closeable in its assignment

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\* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters

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- \* Bug 440687 [compiler][batch][null] improve command line option for external annotations
- \* Lars Vogel <Lars.Vogel@vogella.com> Contributions for
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- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation

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* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
```

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- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 417295 [1.8[[null]

Massage type annotated null analysis to gel well with deep encoded type bindings.

- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java

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\* Bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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- \* Bug 458577 IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Bug 462768 [null] NPE when using linked folder for external annotations

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- \* Benjamin Muskalla - Contribution for bug 239066
- Stephan Herrmann Contributions for \*
- \* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
- \* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
- bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
- \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 376053 - [compiler][resource] Strange potential resource leak problems
- \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
- \* bug 393719 - [compiler] inconsistent warnings on iteration

variables

- bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
- \* bug 331649 - [compiler][null] consider null annotations for fields
- bug 382789 [compiler][null] warn when syntactically-nonnull expression is compared against null \*
- \* bug 376590 - Private fields with @Inject are ignored by unused field validation
- bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402028 - [1.8][compiler] null analysis for reference expressions
- \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug

392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field

- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- Bug 416307 [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

Files::walk

- Bug 428294 [1.8][compiler] Type mismatch: cannot
- convert from List<Object> to Collection<Object[]>
- Bug 428366 [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type \* Bindings
- \* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- \* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations

- \* Bug 390889 [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 430150 [1.8][null] stricter checking against type variables
- \* Bug 434600 Incorrect null analysis error reporting on type parameters
- \* Bug 439516 [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 438467 [compiler][null] Better error position for "The method \_ cannot implement the corresponding method \_ due to incompatible nullness constraints"

\* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java

- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 [1.8] merge null annotations from super methods
- \* Bug 455723 Nonnull argument not correctly inferred in loop
- \* Bug 458361 [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- \* Bug 459967 [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 461878 [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- \* Bug 410218 Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 382721 [1.8][compiler] Effectively final variables needs

# special treatment

- \* bug 384567 [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412151 [1.8][compiler] Check repeating annotation's collection type
- \* bug 419209 [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Bug 429384 [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 416182 [1.8][compiler][null] Contradictory null annotations not rejected
- \* bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> Contributions for

bug 386692 - Missing "unused" warning on "autowired" fields

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 292478 Report potentially null across variable assignment
- \* bug 332637 Dead Code detection removing code that isn't dead
- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* Bug 411964 [1.8][null] leverage null type annotation in foreach statement
- \* Bug 421035 [resource]

False alarm of resource leak warning when casting a closeable in its assignment

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- \* Stephan Herrmann Contributions for
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365662 [compiler][null] warn on contradictory and redundant null annotations
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations

after bug 392099

- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 424728 [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
- \* Bug 392245 [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 457210 [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
- \* Bug 469584 ClassCastException in Annotation.detectStandardAnnotation (320)
- \* Andy Clement (GoPivotal,
- Inc) aclement@gopivotal.com Contributions for
- Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \*

Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

\* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped

\* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

- \* Bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* Bug 412151 [1.8][compiler] Check repeating annotation's collection type
- \* Bug 412149 [1.8][compiler] Emit repeated annotations into the designated container
- \* Bug 419209 [1.8] Repeating container annotations
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\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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- \* Stephan Herrmann Contribution for
- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Karsten Thoms Bug 532505
- \* Sebastian Zarnekow Contribution for
- \* Bug 545491 Poor performance of ReferenceCollection with many source files

#### Found in path(s):

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 292478 Report potentially null across variable assignment,
- \* bug 185682 Increment/decrement operators mark local variables as read
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* Bug 412203 [compiler] Internal compiler error: java.lang.IllegalArgumentException:

info cannot be null

- \* Bug 458396 NPE in CodeStream.invoke()
- \* Bug 407414 [compiler][null] Incorrect warning on a primitive type being null
- \* Jesper S Moller <jesper@selskabet.org> Contributions for
- \* bug 382721 [1.8][compiler] Effectively final variables needs special treatment
- \* bug 378674 "The method can be declared as static" is wrong
- \* bug 404657 [1.8][compiler] Analysis for effectively final variables fails to consider loops
- \* bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

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- \* Stephan Herrmann Contributions for
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099
- [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 412076 [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
- \* Bug 403216 [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
- \* Bug 415850 [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416175 [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
- \* Bug 416174 [1.8][compiler][null] Bogus name clash error with null annotations
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 400874 [1.8][compiler]
- Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 425278 [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
- \* Bug 425798 [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425156 [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 426563 [1.8] AIOOBE when method with error invoked with lambda expression as argument
- \* Bug 426792 [1.8][inference][impl] generify new type inference engine
- \* Bug 428294 [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- \* Bug 427199 [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 416182 [1.8][compiler][null] Contradictory null annotations not rejected
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 438179 [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 446434 [1.8][null] Enable interned captures also when analysing null type annotations
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 456508 Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 390064 [compiler][resource] Resource leak warning missing when extending parameterized class
- \* Jesper S Møller Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* Bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

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\*

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* IBM Corporation - initial API and implementation
* Alex Smirnoff (alexsmr@sympatico.ca) - part of the changes to support Java-like extension
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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 185682 Increment/decrement operators mark local variables as read
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 392384 [1.8][compiler][null] Restore nullness

info from type annotations in class files

- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 411964 [1.8][null] leverage null type annotation in foreach statement
- \* Bug 407414 [compiler][null] Incorrect warning on a primitive type being null

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- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* bug 413958 Function override returning inherited Generic Type
- \* Bug 400874 [1.8][compiler] Inference
- infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424710 [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 423505 [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 418743 [1.8][null] contradictory annotations on invocation of generic method not reported
- \* Bug 416182 [1.8][compiler][null] Contradictory null annotations not rejected
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434602 Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 434483 [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 446442 [1.8] merge null annotations from super methods
- \* Bug 457079 Regression:

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- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 382353 [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 382354 [1.8][compiler] Compiler silent on conflicting modifier
- \* bug 401030 [1.8][null] Null analysis support for lambda

methods.

- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Jesper S Moller - Contributions for

\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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\*

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- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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\* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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\* Contributors:

- \* tyeung@bea.com initial API and implementation
- \* IBM Corporation implemented methods from IBinding
- \* IBM Corporation renamed from ResolvedDefaultValuePair to DefaultValuePairBinding

\* IBM Corporation - Fix for 328969

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-

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\* alex.panchenko@gmail.com - Bug 470535 - Bug in UserLibrary.hashCode()

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- \* IBM Corporation initial API and implementation
- \* Nick Teryaev fix for bug (https://bugs.eclipse.org/bugs/show\_bug.cgi?id=40752)
- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
   \* bug

383368 - [compiler][null] syntactic null analysis for field references

- \* bug 401017 [compiler][null] casted reference to @Nullable field lacks a warning
- \* bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 430150 [1.8][null] stricter checking against type variables
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration

style null annotations

- \* Bug 407414 [compiler][null] Incorrect warning on a primitive type being null
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 415541 [1.8][compiler] Type annotations in the body of static initializer get dropped

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- \* Palo Alto Research Center, Incorporated AspectJ adaptation
- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 185682 Increment/decrement operators mark local variables as read
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* Bug 412203 [compiler] Internal compiler error: java.lang.IllegalArgumentException:

info cannot be null

- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 458396 NPE in CodeStream.invoke()
- \* Jesper S Moller Contributions for
- \* Bug 378674 "The method can be declared as static" is wrong
- \* Robert Roth <robert.roth.off@gmail.com> Contributions for
- \* Bug 361039 NPE in FieldReference.optimizedBooleanConstant

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- \* IBM Corporation added J2SE 1.5 support

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- \* IBM Corporation added constant AccDefault
- \* IBM Corporation added constants AccBridge and AccVarargs for J2SE 1.5

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\* Andy Clement - initial implementation {date}

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\*

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 282152 [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 359362 FUP of bug 349326: Resource leak on non-Closeable resource
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 395002 Self bound generic class

doesn't resolve bounds properly for wildcards for certain parametrisation.

- \* bug 392384 [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426792 [1.8][inference][impl] generify new type inference engine
- \* Bug 428019 [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 429384 [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 431269 [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
- \* Bug 431408 Java 8 (1.8) generics bug
- \* Bug 435962 [RC2] StackOverFlowError when building
- \* Bug

438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict

\* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.

\* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables

\* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis

- \* Bug 456459 Discrepancy between Eclipse compiler and javac Enums, interfaces, and generics
- \* Bug 456487 [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 462790 [null] NPE in Expression.computeConversion()

\* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages

\* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 360328 [compiler][null] detect null problems in nested code (local class inside a loop)
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365835 [compiler][null] inconsistent error reporting.
- \* bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'

- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* bug 401030 [1.8][null] Null analysis support for lambda

## methods.

- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416307 [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 417758 [1.8][null] Null safety compromise during array creation.
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 430150 [1.8][null] stricter checking against type variables
- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 Nonnull argument not correctly inferred in loop
- \* Jesper S Moller
- Contributions for

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- \* Bug 378674 "The method can be declared as static" is wrong
- \* Stephan Herrmann Contribution for
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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- \* bug 401030 [1.8][null] Null analysis support for lambda methods.
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

```
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
```

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- \* bug 185682 Increment/decrement operators mark local variables as read
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 447088 [null] @Nullable on fully qualified field type is ignored
- \* Bug 435805 [1.8][compiler][null]

Java 8 compiler does not recognize declaration style null annotations

- \* Bug 458396 NPE in CodeStream.invoke()
- \* Bug 446217 [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
- \* Till Brychcy Contribution for
- <sup>4</sup> bug 467094 [1.8][null] TYPE\_USE NullAnnotations of array contents are applied to field.

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- \* bug 383368 [compiler][null] syntactic null analysis for field references

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- \* Martin Lippert initial implementation
- \* Andy Clement
- \* Roy Varghese Bug 473555

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- \* bug 383973 [1.8][compiler] syntax recovery in the presence of default methods

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\* Samrat Dhillon samrat.dhillon@gmail.com - Search for method references is

\* returning methods as overriden even if the superclass's method is

<sup>k</sup> only package-visible - https://bugs.eclipse.org/357547

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\* IBM Corporation - fix for 342598

\* IBM Corporation - Java 8 support

\* het@google.com - Bug 427943 - The method

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionJavadocParser.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IElementChangedListener.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathValidation.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/ast/ASTNode.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/bcel/Utility.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/NewFieldTypeMunger.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/KnownFieldReference.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/DeclareErrorOrWarning.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/ast/Expr.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/InterSuperFixerVisitor.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/Bindings.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/MemberKind.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/AndTypePattern.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/Declare.java

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jar/org/aspectj/ajdt/internal/core/builder/AjCompilerOptions.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sourcesjar/org/aspectj/weaver/patterns/PerFromSuper.java

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/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/IntMap.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/ResolvedPointcutDefinition.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/PointcutDesignator.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/AndPointcut.java

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/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/CrosscuttingMembers.java

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/bcel/BcelMethod.java

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/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/IHasPosition.java

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jar/org/aspectj/weaver/model/AsmRelationshipProvider.java No license file was found, but licenses were detected in source scan.

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\* Contributors:

- \* PARC initial implementation
- \* Adrian Colyer, Andy Clement, overhaul for generics, Abraham Nevado

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- \* Contributors:
- \* IBM Corporation initial API and implementation
- \* Stephan Herrmann Contribution for
- \* bug 401035 [1.8] A few tests have started failing recently
- \* Jesper Steen Møller Contributions for
- \* bug 529552 [18.3] Add 'var' in completions
  - Bug 529556 [18.3] Add content assist support for 'var' as a type

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- \* IBM Corporation initial API and implementation
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409245 [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

onage m

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

\*

Stephan Herrmann - Contribution for

- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/BindingTypePattern.java

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/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/TypePattern.java

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- \* Contributors:
- \* IBM Corporation initial API and implementation
- \* Stephan Herrmann Contributions for
- \* Bug 463330 [dom] DOMFinder doesn't find the VariableBinding corresponding to a method argument
- \* Bug 464463 [dom] DOMFinder doesn't find an ITypeParameter
- \* Bug 429813 [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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\* Contributors:

- \* IBM Corporation initial API and implementation
- \* IBM Corporation added getOption(String, boolean), getOptions(boolean) and setOptions(Map)
- \* IBM Corporation deprecated getPackageFragmentRoots(IClasspathEntry) and
  - added findPackageFragmentRoots(IClasspathEntry)
- \* IBM Corporation added isOnClasspath(IResource)
- \* IBM Corporation added setOption(String, String)
- \* IBM Corporation added forceClasspathReload(IProgressMonitor)

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jar/org/aspectj/org/eclipse/jdt/internal/core/util/CharArrayBuffer.java

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- \* Jesper S Moller Contributions for
- \* bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 382721 [1.8][compiler] Effectively final variables needs special treatment
- \* Bug 416885 [1.8][compiler]IncompatibleClassChange error (edit)
- \* Stephan Herrmann Contribution for
- \* bug 401030 [1.8][null] Null analysis support for lambda methods.
- \* Bug 392099

- [1.8][compiler][null] Apply null annotation on types for null analysis

- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 425142 [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425153 [1.8] Having wildcard allows incompatible types in a lambda expression
- \* Bug 424205 [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 425798 [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425156 [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 424403 [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 426563 [1.8] AIOOBE when method with error

invoked with lambda expression as argument

- \* Bug 420525 [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

\* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>

\* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint

\* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument

\* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

- \* Bug 432110 [1.8][compiler] nested lambda type incorrectly inferred vs javac
- \* Bug 438458 [1.8][null] clean up handling of null type annotations

# wrt type variables

- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 Nonnull argument not correctly inferred in loop
- \* Bug 463728 [1.8][compiler][inference] Ternary operator in lambda derives wrong type
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 292478 Report potentially null across variable assignment
- \* bug 335093 [compiler][null] minimal hook for future null annotation support
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* bug 370639 [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 400761 [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 392238 [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 427438 [1.8][compiler] NPE at

org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28 0)

- \* Bug 430150 [1.8][null] stricter checking against type variables
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Jesper S Moller Contributions for
- \* Bug 378674 "The method can be declared as static" is wrong
- \* Bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Bug 529556 [18.3] Add content assist support for 'var' as a type
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 409250 [1.8][compiler] Various loose ends in 308 code generation
- \* Bug 426616 [1.8][compiler] Type Annotations, multiple problems

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\* Contributors:

\* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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- \* bug 331649 [compiler][null] consider null annotations for fields
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- \* Bug 378674 "The method can be declared as static" is wrong

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- \* Nick Teryaev fix for bug (https://bugs.eclipse.org/bugs/show\_bug.cgi?id=40752)
- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 358903
- Filter practically unimportant resource leak warnings
- \* bug 370639 [compiler][resource] restore the default for resource leak warnings
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 379784 [compiler] "Method can be static" is not getting reported
- \* bug 379834 Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* bug 392862 [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 394768 [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 381445 [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- \* bug 331649 [compiler][null] consider null annotations

# for fields

- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 382069 [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* bug 382350 [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- \* bug 404649 [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 403086 [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 405569 Resource leak check false positive when using DbUtils.closeQuietly
- \* Bug 411964 [1.8][null] leverage null type annotation in foreach statement
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424710 [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload

context

- \* Bug 426290 [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 427483 [Java 8] Variables in lambdas
- sometimes can't be resolved
- \* Bug 427438 [1.8][compiler] NPE at

- 0)
- Bug 426996 [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 [1.8][compiler] Resolution errors don't always surface

\* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

- \* Bug 441734 [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 452788 [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 456487 [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 407414 [compiler][null] Incorrect warning on a primitive type being null
- \* Bug 472618 [compiler][null] assertNotNull vs. Assert.assertNotNull
- \* Bug

470958 - [1.8] Unable to convert lambda

\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

- \* Jesper S Moller Contributions for
- \* Bug 378674 "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic

bridge method

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Jul / org/ aspectly/org/ compset/ jul/ internal/ compiler/ aspectly/org/ second.jul

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- \* Stephan Herrmann Contribution for bug 186342 [compiler][null] Using annotations for null checking
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 407191 [1.8] Binary access support for type annotations

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- \* Andy Clement June 2005 separated out from ResolvedType

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- \* Bug 433478 [compiler][null] NPE in ReferenceBinding.isCompatibleWith

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- \* Alex Vasseur new factory methods for variants of JP
- \* Abraham Nevado new factory methods for collapsed SJPs
- \* Andy Clement new factory methods that rely on LDC <class>

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- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 403147 [compiler][null] FUP of bug 400761:

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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- \* Brock Janiczak - Contribution for bug 150741
- \* Ray V. (voidstar@gmail.com) - Contribution for bug 282988
- \* Jesper S Moller - Contribution for bug 402173
- \* Mateusz Matela <matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
- Lars Vogel <Lars.Vogel@vogella.com> Contributions for
- Bug 473178

\*\*\*\*\*\*\*\*\*\*\*\*\*

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Tim Hanson (thanson@bea.com) - patch for https://bugs.eclipse.org/bugs/show\_bug.cgi?id=126673 \*\*\*\*\*\*\*

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- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

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\* Lyor Goldstein (vmware) add support for weaved class being re-defined

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- \* Stephan Herrmann contributions for
- \* bug 336428 [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 368546 [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 365859 [compiler][null]
- distinguish warnings based on flow analysis vs. null annotations
- bug 385626 @NonNull fails across loop boundaries
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 376263 Bogus "Potential null pointer access" warning
- \* bug 403147 [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* bug 406384 Internal error with I20130413
- \* Bug 415413 [compiler][null] NullpointerException in Null Analysis caused by interaction of
- LoopingFlowContext and FinallyFlowContext
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 455557 [jdt] NPE LoopingFlowContext.recordNullReference
- \* Bug 455723 Nonnull argument not correctly inferred in loop
- \* Bug 415790 [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 421035 [resource]
- False alarm of resource leak warning when casting a closeable in its assignment
- \* Jesper S Moller contributions for
- \* bug 404657 [1.8][compiler] Analysis for effectively final variables fails to consider loops

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- \* IBM Corporation changed interface to extend IBinding
- \* IBM Corporation renamed from IResolvedMemberValuePair to IMemberValuePairBinding

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\* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -

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- \* Bug 428811 [1.8][compiler] Type witness unnecessarily required

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- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 403147 [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
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\*

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- \* Stephan Herrmann Contribution for
- \* bug 331649 [compiler][null] consider null annotations for fields
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 458396 NPE in CodeStream.invoke()

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- \* Erling Ellingsen patch for bug 125570
- \* Stephan Herrmann Contribution for
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434570 Generic type mismatch for parametrized class annotation attribute with inner class
- \* Sebastian Zarnekow Contribution for
- \* Bug 544921 [performance] Poor performance with large source files

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\*

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\* Mateusz Matela <mateusz.matela@gmail.com> - NPE in WrapExecutor during Java text formatting - https://bugs.eclipse.org/465669

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- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 435570 [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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\* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method

- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation
- \* Bug 440687 [compiler][batch][null] improve command line option for external annotations
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \*

bug 407191 - [1.8] Binary access support for type annotations

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\* Adrian Colyer added constructor to populate javaOptions with

default settings - 01.20.2003

\* Bugzilla #29768, 29769

\* Andy Clement

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> Contributions for
- \* Bug 328281 visibility leaks not detected when analyzing unused field in private class
- \* Bug 300576 NPE Computing type hierarchy when compliance doesn't match libraries
- \* Bug 354536 compiling package-info.java still depends on the order of compilation units
- \* Bug 349326 [1.7] new warning for missing try-with-resources
- \* Bug

358903 - Filter practically unimportant resource leak warnings

- \* Bug 395977 [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
- \* Bug 395002 Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 427199 [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434570 Generic type mismatch for parametrized class annotation attribute with inner class

\* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"

- \* Bug 459967 [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -

# Contributions for

- \* Bug 415821 [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes
- \* het@google.com Bug 456986 Bogus error when annotation processor generates annotation type
- \* Lars Vogel <Lars.Vogel@vogella.com> Contributions for
- \* Bug 473178

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- \* bug 332637 Dead Code detection removing code that isn't dead
- \* bug 358827 [1.7] exception analysis for t-w-r spoils null analysis
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 359334 Analysis for resource leak warnings does not consider exceptions as method exit points

```
* bug 358903 - Filter practically unimportant resource
```

leak warnings

- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 [compiler][resource] Incorrect 'potential resource leak'
- \* bug 401088 [compiler][null] Wrong warning "Redundant null check" inside nested try statement
- \* bug 401092 [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
- \* bug 402993 [null] Follow up of bug 401088: Missing warning about redundant null check
- \* bug 384380 False positive on a ?? Potential null pointer access ?? after a continue
- \* Bug 415790 [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 371614 [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- \* Bug 444964 [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream return inside for loop)

\* Jesper Steen Moller -

Contributions for

- \* bug 404146 [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \*

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- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation

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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Bad line breaking in Eclipse javadoc comments - https://bugs.eclipse.org/348338

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions

for

Bug 473178

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\* Jesper Steen Moller - Contributions for

\* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code

\* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

Mateusz Matela

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- \* Stephan Herrmann Contribution for
- \* Bug 186342 [compiler][null] Using annotations for null checking
- \* Bug 440474 [null] textual encoding of external null annotations
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
- \* Bug 407191 [1.8] Binary access support for type annotations

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\* Contributors:

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

\* Till Brychcy - Java Code Formatter breaks code if single line comments contain unicode escape - https://bugs.eclipse.org/471090

Found in path(s):

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/formatter/Token.java

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\* Contributors:

- \* IBM Corporation initial API and implementation
- \* Brock Janiczak Contribution for bug 150741
- \* Ray V. (voidstar@gmail.com) Contribution for bug 282988
- \* Jesper S Moller Contribution for bug 402173
- \* Mateusz Matela <mateusz.matela@gmail.com> [formatter] Formatter does not format Java code correctly, especially when max line width is set https://bugs.eclipse.org/303519

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* Contributors:
* IBM Corporation - initial API and implementation
* IBM Corporation - added the following constants:
* COMPILER_PB_DEPRECATION_IN_DEPRECATED_CODE
* COMPILER_PB_STATIC_ACCESS_RECEIVER
* COMPILER_TASK_TAGS
* CORE_CIRCULAR_CLASSPATH
* CORE_INCOMPLETE_CLASSPATH
* IBM Corporation - added run(IWorkspaceRunnable, IProgressMonitor)
*
IBM Corporation - added exclusion patterns to source classpath entries
* IBM Corporation - added specific output location to source classpath entries
* IBM Corporation - added the following constants:
* CORE_JAVA_BUILD_CLEAN_OUTPUT_FOLDER
* CORE_JAVA_BUILD_RECREATE_MODIFIED_CLASS_FILES_IN_OUTPUT_FOLDER
* CLEAN
* IBM Corporation - added getClasspathContainerInitializer(String)
* IBM Corporation - added the following constants:
* CODEASSIST_ARGUMENT_PREFIXES
* CODEASSIST_ARGUMENT_SUFFIXES
* CODEASSIST_FIELD_PREFIXES
* CODEASSIST_FIELD_SUFFIXES
* CODEASSIST_LOCAL_PREFIXES

\* CODEASSIST\_LOCAL\_SUFFIXES

*	CODEASSIST_STATIC_FIELD_PREFIXES
*	
	CODEASSIST_STATIC_FIELD_SUFFIXES
*	COMPILER_PB_CHAR_ARRAY_IN_STRING_CONCATENATION
*	IBM Corporation - added the following constants:
*	COMPILER_PB_LOCAL_VARIABLE_HIDING
*	COMPILER_PB_SPECIAL_PARAMETER_HIDING_FIELD
*	COMPILER_PB_FIELD_HIDING
*	COMPILER_PB_POSSIBLE_ACCIDENTAL_BOOLEAN_ASSIGNMENT
*	CORE_INCOMPATIBLE_JDK_LEVEL
*	VERSION_1_5
*	COMPILER_PB_EMPTY_STATEMENT
*	
*	IBM Corporation - added the following constants:
	COMPILER_PB_INDIRECT_STATIC_ACCESS
*	COMPILER_PB_BOOLEAN_METHOD_THROWING_EXCEPTION
*	COMPILER_PB_UNNECESSARY_CAST
*	IBM Corporation - added the following constants:
*	
	COMPILER_PB_INVALID_JAVADOC
*	COMPILER_PB_INVALID_JAVADOC_TAGS
*	COMPILER_PB_INVALID_JAVADOC_TAGS_VISIBILITY
*	COMPILER_PB_MISSING_JAVADOC_TAGS
*	COMPILER_PB_MISSING_JAVADOC_TAGS_VISIBILITY
*	COMPILER_PB_MISSING_JAVADOC_TAGS_OVERRIDING
*	COMPILER_PB_MISSING_JAVADOC_COMMENTS
*	COMPILER_PB_MISSING_JAVADOC_COMMENTS_VISIBILITY
*	COMPILER_PB_MISSING_JAVADOC_COMMENTS_OVERRIDING
*	COMPILER_PB_DEPRECATION_WHEN_OVERRIDING_DEPRECATED_METHOD
*	
СО	MPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_WHEN_OVERRIDING
*	IBM Corporation - added the following constants:
*	TIMEOUT_FOR_PARAMETER_NAME_FROM_ATTACHED_JAVADOC
*	
IF	3M Corporation - added the following constants:
*	COMPILER_PB_FALLTHROUGH_CASE
*	COMPILER_PB_PARAMETER_ASSIGNMENT
*	COMPILER_PB_NULL_REFERENCE
*	IBM Corporation - added the following constants:
*	CODEASSIST_DEPRECATION_CHECK
*	
*	IBM Corporation - added the following constants:
	COMPILER_PB_POTENTIAL_NULL_REFERENCE
*	COMPILER_PB_REDUNDANT_NULL_CHECK
*	IBM Corporation - added the following constants:
*	COMPILER_PB_UNUSED_PARAMETER_INCLUDE_DOC_COMMENT_REFERENCE
*	IBM Corporation - added the following constants:
*	
	MPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_INCLUDE_DOC_COMMENT_REFEREN
CE	

- \* IBM Corporation added the following constants:
  - COMPILER\_PB\_MISSING\_JAVADOC\_TAG\_DESCRIPTION
- \* COMPILER\_PB\_MISSING\_JAVADOC\_TAG\_DESCRIPTION\_NO\_TAG
- \* COMPILER\_PB\_MISSING\_JAVADOC\_TAG\_DESCRIPTION\_RETURN\_TAG
- \* COMPILER\_PB\_MISSING\_JAVADOC\_TAG\_DESCRIPTION\_ALL\_TAGS
- \* IBM Corporation added the following constants:
  - COMPILER\_PB\_REDUNDANT\_SUPERINTERFACE
- \* IBM Corporation added the following constant:
- \*

\*

COMPILER\_PB\_UNUSED\_DECLARED\_THROWN\_EXCEPTION\_EXEMPT\_EXCEPTION\_AND\_THROWA BLE

- \* IBM Corporation added getOptionForConfigurableSeverity(int)
- \* Benjamin Muskalla added COMPILER\_PB\_MISSING\_SYNCHRONIZED\_ON\_INHERITED\_METHOD
- \* Stephan Herrmann added COMPILER\_PB\_UNUSED\_OBJECT\_ALLOCATION
- \* Stephan Herrmann added COMPILER\_PB\_SUPPRESS\_OPTIONAL\_ERRORS
- \* Stephan Herrmann added the following constants:
- \* COMPILER\_PB\_UNCLOSED\_CLOSEABLE,
- \* COMPILER\_PB\_POTENTIALLY\_UNCLOSED\_CLOSEABLE
- \* COMPILER\_PB\_EXPLICITLY\_CLOSED\_AUTOCLOSEABLE
- \* COMPILER\_ANNOTATION\_NULL\_ANALYSIS
- \* COMPILER\_NULLABLE\_ANNOTATION\_NAME
- \* COMPILER\_NONNULL\_ANNOTATION\_NAME
- \* COMPILER\_PB\_NULL\_SPECIFICATION\_VIOLATION
- \* COMPILER\_PB\_POTENTIAL\_NULL\_SPECIFICATION\_VIOLATION
- \* COMPILER\_PB\_NULL\_SPECIFICATION\_INSUFFICIENT\_INFO
- \* COMPILER\_PB\_MISSING\_ENUM\_CASE\_DESPITE\_DEFAULT
- \* COMPILER\_PB\_SWITCH\_MISSING\_DEFAULT\_CASE
- \* COMPILER\_INHERIT\_NULL\_ANNOTATIONS
- \* COMPILER\_PB\_NONNULL\_PARAMETER\_ANNOTATION\_DROPPED
- \* COMPILER\_PB\_SYNTACTIC\_NULL\_ANALYSIS\_FOR\_FIELDS
- \* COMPILER\_PB\_UNLIKELY\_COLLECTION\_METHOD\_ARGUMENT\_TYPE
- \* COMPILER\_PB\_UNLIKELY\_EQUALS\_ARGUMENT\_TYPE
- \* Jesper S Moller Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* added the following constants:
- \* COMPILER\_CODEGEN\_METHOD\_PARAMETERS\_ATTR
- \* Harry Terkelsen (het@google.com) Bug 449262
- Allow the use of third-party Java formatters

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

- \* Karsten Thoms Bug 532505 Reduce memory footprint of ClasspathAccessRule
- \*

Found in path(s):

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/JavaCore.java

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- \* Contributors:
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- \* Stephan Herrmann Contribution for
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 359362 FUP of bug 349326: Resource leak on non-Closeable resource
- \* bug 358903 Filter practically unimportant resource leak warnings
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure
- should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 426676 [1.8][compiler] Wrong generic method type inferred from lambda expression
- \* Bug 427411 [1.8][generics] JDT reports type mismatch when using method that returns generic type
- \* Bug 428019 [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 435962 [RC2] StackOverFlowError when building
- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 [1.8][null] Bogus warning for type argument annotated with @NonNull

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\* Contributors:

\* Andy Clement initial implementation

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jar/org/aspectj/weaver/PerTypeWithinTargetTypeMunger.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sourcesjar/org/aspectj/weaver/PerTypeWithinTargetTypeMunger.java

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\* Contributors:

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- \* Stephan Herrmann Contribution for
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 402993 [null] Follow up of bug 401088: Missing warning about redundant null check
- \* Jesper S Moller Contributions for
- \* bug 382721 [1.8][compiler] Effectively final variables needs special treatment

Found in path(s):

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- \* Stephan Herrmann Contributions for
- \* bug 186342 [compiler][null] Using annotations for null checking
- \* bug 367203 [compiler][null] detect assigning null to nonnull argument
- \* bug 365519 editorial cleanup after bug 186342 and bug 365387
- \* bug 365662 [compiler][null] warn on contradictory and redundant null annotations
- \* bug 365531 [compiler][null] investigate alternative strategy for internally

encoding nullness defaults

- \* bug 388281 [compiler][null] inheritance of null annotations as an option
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 417295 [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 425152 [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 423505 [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

- \* Bug 440759 [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 443347 [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation

- \* Bug 435805 [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 466713 Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 456584 [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
- \* Bug 471611 Error on hover on call to generic method with null annotation
- \* Jesper Steen Moller Contributions for

\* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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\* Mateusz Matela <mateusz.matela@gmail.com> - Initial API and implementation

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- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

```
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
```

\* Bug

427163 - [1.8][null] bogus error "Contradictory null specification" on varags

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

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 $* / opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceAnnotationMethodInfo.java$ 

/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/ResolvedSourceMethod.java

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- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug

415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

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- \* Stephan Herrmann Contribution for
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 370930 NonNull annotation not considered for enhanced for loops
- \* bug 365859 [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- bug 393719 [compiler] inconsistent warnings

on iteration variables

- \* Bug 411964 [1.8][null] leverage null type annotation in foreach statement
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 453483 [compiler][null][loop] Improve null analysis for loops
- \* Bug 415790 [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- \* Jesper S Moller Contribution for
- \* bug 401853 Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
  - bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/reflect/ArgNameFinder.java

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- \* Contributors:
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- \* Stephan Herrmann Contributions for
- \* Bug 360328 [compiler][null] detect null problems in nested code (local class inside a loop)
- \* Bug 388630 @NonNull diagnostics at line 0
- \* Bug 392099 [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 416176 [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 424727 [compiler][null] NullPointerException

in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

\* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?

\* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

\* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for

\* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

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* Contributors:
* mkaufman@bea.com - initial API and implementation
* IBM - renamed from PreReconcileCompilationResult to ReconcileContext
* IBM - rewrote spec
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- \* Bug 412153 [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type

- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com Contributions for
  - Bug 405104 [1.8][compiler][codegen]

Implement support for serializeable lambdas

- \* Ulrich Grave <ulrich.grave@gmx.de> Contributions for
  - bug 386692 Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> Contribution for

\* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

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- \* Bug 458613 [1.8] lambda not shown in quick type hierarchy

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\* Stephan Herrmann - Contribution for

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code

generator

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java

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\* Andy Clement incremental support and switch on/off state

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- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

checking

\* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

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- \* Jesper Steen Moller Contributions for:
- \* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container

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- \* bug 331649 [compiler][null] consider null annotations for fields
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426996 [1.8][inference] try to avoid method Expression.unresolve()?
- \* Jesper S Moller Contributions for
- \* bug 382721 [1.8][compiler] Effectively final variables needs special treatment

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\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

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\* Contributors:

\* Adrian Colyer Initial implementation

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/internal/lang/reflect/DeclareErrorOrWarningImpl.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sourcesjar/org/aspectj/internal/lang/reflect/InterTypeConstructorDeclarationImpl.java

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/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/lang/reflect/DeclareParents.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/internal/lang/reflect/TypePatternImpl.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/internal/lang/reflect/TypePatternBasedPerClauseImpl.java

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- \* Stephan Herrmann Contribution for
- \* bug 382350 [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- \* bug 404649 [1.8][compiler] detect illegal reference to indirect or redundant super

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong

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\* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment

\* bug 186342 - [compiler][null] Using annotations for null checking

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\* Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation

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\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis

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\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/reflect/AnnotationFinder.java

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- \* Stephan Herrmann Contributions for
- \* bug 319201 [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 [1.7] new warning for missing try-with-resources
- \* bug 265744 Enum switch should warn about missing default
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"

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- \* Bug 320618 inconsistent initialization of classpath container backed by external class folder
- \* Bug 346010 [model] strange initialization dependency in OptionTests

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\* Lyor Goldstein (vmware) add support for weaved class being re-defined

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- \* Bug 438458 [1.8][null] clean up handling of null type annotations wrt type variables

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- \* Tom Tromey patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show\_bug.cgi?id=32196
- \* Stephan Herrmann Contributions for
- \* bug 366003 CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
- \* bug 374605 Unreasonable warning for enum-based switch statements
- \* bug 393719 [compiler] inconsistent warnings on iteration variables
- \* bug 382353 [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 383973 [1.8][compiler] syntax recovery in the presence of default methods
- \* bug 401035 [1.8] A few tests have started failing recently
- \* Jesper S Moller Contributions for
- \* bug 382701 [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 399695 [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
- \* bug 384567 [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 393192 Incomplete type hierarchy with > 10 annotations
- \* bug 527554 [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Andy Clement Contributions for
- \* Bug 383624 [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation \* Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes Found in path(s): \*/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/TheOriginalJDTParserClass.java No license file was found, but licenses were detected in source scan. \* Copyright (c) 2002 Palo Alto Research Center, Incorporated (PARC). 2003,2004 contributors \* All rights reserved. \* This program and the accompanying materials are made available \* under the terms of the Common Public License v1.0 \* which accompanies this distribution and is available at \* http://www.eclipse.org/legal/cpl-v10.html \* Contributors: \* PARC initial implementation Found in path(s): \*/opt/cola/permits/1017214397 1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/Scanner.java No license file was found, but licenses were detected in source scan. \* Copyright (c) 2005 Contributors. \* All rights reserved. \* This program and the accompanying materials are made available \* under the terms of the Eclipse Public License v1.0 \* which accompanies this distribution and is available at \* http://eclipse.org/legal/epl-v10.html \* \* Contributors: \* initial implementation Adrian Colver Found in path(s): \*/opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sourcesjar/org/aspectj/lang/annotation/DeclareParents.java \* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sourcesjar/org/aspectj/lang/annotation/DeclareParents.java

\* /opt/cola/permits/1017214397\_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/lang/annotation/DeclareParents.java

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\* Bug 425183 - [1.8][inference] make CaptureBinding18 safe

\* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis

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jar/org/aspectj/org/eclipse/jdt/core/dom/ModuleDirective.java

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- \* Tal Lev-Ami added package cache for zip files
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- \* Bug 440477 [null] Infrastructure for feeding external annotations into compilation

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- \* bug 365531 [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* Bug 400874 [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 429958 [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Jesper Steen Moller Contributions for
- \* Bug 412150 [1.8] [compiler]

Enable reflected parameter names during annotation processing

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
- \* bug 185682 - Increment/decrement operators mark local variables as read
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found

when compiling the Eclipse SDK

- bug 345305 [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field

- \* Bug 458396 - NPE in CodeStream.invoke()
- \* Jesper S Moller - Contributions for
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 331649 - [compiler][null] consider null annotations for fields
- bug 383368 [compiler][null] syntactic null analysis for field references
- \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- bug 378674 "The method can be declared as static" is wrong

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javaee\_web\_services\_1\_4.xsd
javaee\_web\_services\_client\_1\_4.xsd
jsp\_2\_3.xsd
web-app\_3\_1.xsd
web-common\_3\_1.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
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- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd

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- web-common\_4\_0.xsd
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- javaee\_5.xsd

- javaee\_web\_services\_1\_2.xsd

- javaee\_web\_services\_client\_1\_2.xsd

- javaee\_6.xsd

- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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# 1.87 jsr305 3.0.2

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# 1.101 jul-to-slf4j 1.7.30

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CompileTimeConstant.java

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/Var.java

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

\*

/opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/concurrent/LazyInit.java

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/RequiredModifiers.java

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/Immutable.java

\* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/ForOverride.java

## \* /opt/ws\_local/PERMITS\_SQL/1059334966\_1592483799.99/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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