

# Downloads

## OpenJPA Downloads

Use the links below to download a distribution of Apache OpenJPA. It is good practice to [verify the integrity](#) of the distribution files.

For information on obtaining OpenJPA binaries, see the [Obtaining](#) page. For information on building OpenJPA from source, see the [Building](#) page.

### Official JPA 2.0 Releases

These releases implement the [JSR-317 Java Persistence 2.0](#) specification and pass the JPA 2.0 TCK.

#### 2.2.x Releases

	Download	Release Date	Checksum	Signatures
OpenJPA 2.2.1 Binary	<a href="#">apache-openjpa-2.2.1-binary.zip</a>	1 November 2012	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.2.1 Source	<a href="#">apache-openjpa-2.2.1-source.zip</a>	1 November 2012	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.2.1 Release Notes	<a href="#">RELEASE-NOTES.html</a>	1 November 2012		
OpenJPA 2.2.0 Binary	<a href="#">apache-openjpa-2.2.0-binary.zip (**)</a>	20 February 2012	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.2.0 Source	<a href="#">apache-openjpa-2.2.0-source.zip</a>	20 February 2012	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.2.0 Release Notes	<a href="#">RELEASE-NOTES.html</a>	20 February 2012		

#### 2.1.x Releases

	Download	Release Date	Checksum	Signatures
OpenJPA 2.1.1 Binary	<a href="#">apache-openjpa-2.1.1-binary.zip</a>	25 July 2011	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.1.1 Source	<a href="#">apache-openjpa-2.1.1-source.zip</a>	25 July 2011	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.1.1 Release Notes	<a href="#">RELEASE-NOTES.html</a>	25 July 2011		
OpenJPA 2.1.0 Binary	<a href="#">apache-openjpa-2.1.0-binary.zip</a>	21 February 2011	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.1.0 Source	<a href="#">apache-openjpa-2.1.0-source.zip</a>	21 February 2011	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.1.0 Release Notes	<a href="#">RELEASE-NOTES.html</a>	21 February 2011		

#### 2.0.x Releases

	Download	Release Date	Checksum	Signatures
OpenJPA 2.0.1 Binary	<a href="#">apache-openjpa-2.0.1-binary.zip</a>	30 August 2010	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.0.1 Source	<a href="#">apache-openjpa-2.0.1-source.zip</a>	30 August 2010	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.0.1 Release Notes	<a href="#">RELEASE-NOTES.html</a>	30 August 2010		
OpenJPA 2.0.0 Binary	<a href="#">apache-openjpa-2.0.0-binary.zip</a>	22 April 2010	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.0.0 Source	<a href="#">apache-openjpa-2.0.0-source.zip</a>	22 April 2010	<a href="#">MD5</a>	<a href="#">PGP</a>
OpenJPA 2.0.0 Release Notes	<a href="#">RELEASE-NOTES.html</a>	22 April 2010		

### Official JPA 1.0 Releases

These releases implement the [JSR-220 Java Persistence 1.0](#) specification and pass the Sun JPA 1.0b Technology Compatibility Kit.

#### 1.2.x Releases

	Download	Release Date	Signatures	Release Notes
OpenJPA 1.2.2	<a href="#">apache-openjpa-1.2.2-binary.zip</a>	18 Jan 2010	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.2.2 Source Code	<a href="#">apache-openjpa-1.2.2-source.zip</a>	18 Jan 2010	<a href="#">PGP</a>	
OpenJPA 1.2.1	<a href="#">apache-openjpa-1.2.1-binary.zip</a>	18 Mar 2009	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.2.1 Source Code	<a href="#">apache-openjpa-1.2.1-source.zip</a>	18 Mar 2009	<a href="#">PGP</a>	
OpenJPA 1.2.0	<a href="#">apache-openjpa-1.2.0-binary.zip</a>	14 Aug 2008	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.2.0 Source Code	<a href="#">apache-openjpa-1.2.0-source.zip</a>	14 Aug 2008	<a href="#">PGP</a>	

## 1.1.x Releases

	Download	Release Date	Signatures	Release Notes
OpenJPA 1.1.0	<a href="#">apache-openjpa-1.1.0-binary.zip</a>	22 May 2008	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.1.0 Source Code	<a href="#">apache-openjpa-1.1.0-source.zip</a>	22 May 2008	<a href="#">PGP</a>	

## 1.0.x Releases

	Download	Release Date	Signatures	Release Notes
OpenJPA 1.0.4	<a href="#">apache-openjpa-1.0.4-binary.zip</a>	18 Jan 2010	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.0.4 Source Code	<a href="#">apache-openjpa-1.0.4-source.zip</a>	18 Jan 2010	<a href="#">PGP</a>	
OpenJPA 1.0.3	<a href="#">apache-openjpa-1.0.3-binary.zip</a>	18 Feb 2008	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.0.3 Source Code	<a href="#">apache-openjpa-1.0.3-source.zip</a>	18 Feb 2008	<a href="#">PGP</a>	
OpenJPA 1.0.2	<a href="#">apache-openjpa-1.0.2-binary.zip</a>	18 Feb 2008	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.0.2 Source Code	<a href="#">apache-openjpa-1.0.2-source.zip</a>	18 Feb 2008	<a href="#">PGP</a>	
OpenJPA 1.0.2 Source Code	<a href="#">apache-openjpa-1.0.2-source.zip</a>	18 Feb 2008	<a href="#">PGP</a>	
OpenJPA 1.0.1	<a href="#">apache-openjpa-1.0.1-binary.zip</a>	9 Nov 2007	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.0.1 Source Code	<a href="#">apache-openjpa-1.0.1-source.zip</a>	9 Nov 2007	<a href="#">PGP</a>	
OpenJPA 1.0.0	<a href="#">apache-openjpa-1.0.0-binary.zip</a>	28 Aug 2007	<a href="#">PGP</a>	<a href="#">Release Notes</a>
OpenJPA 1.0.0 Source Code	<a href="#">apache-openjpa-1.0.0-source.zip</a>	28 Aug 2007	<a href="#">PGP</a>	

## Nightly Snapshots

These distributions are built and deployed nightly, and contain up-to-date fixes and improvements. However, their stability cannot be guaranteed. Use at your own risk.

**Snapshot builds for all active releases are published to the Apache snapshot repository.**

Version 1.2.x, 1.3.x, 2.0.x, 2.1.x, 2.2.x and trunk can be found in the snapshot repository on [repository.apache.org](http://repository.apache.org). A maven project can access this snapshot repository by adding the following repository in pom.xml:

```
<repository>
  <id>apache.snapshots</id>
  <name>Apache Snapshot Repository</name>
  <url>http://repository.apache.org/snapshots</url>
  <releases>
    <enabled>>false</enabled>
  </releases>
</repository>
```

For versions 1.0.x, and 1.1.x you can find the snapshots on [people.apache.org](http://people.apache.org).

A maven project can access the snapshot builds by adding the following repository in pom.xml :

```
<repository>
  <id>people.apache.org.snapshots</id>
  <name>people.apache.org.snapshots</name>
  <url>http://people.apache.org/repo/m2-snapshot-repository</url>
</repository>
```

**Pre-packaged binaries for SNAPSHOT releases are available in the snapshot repository at the following locations:**

SNAPSHOT version	binaries	source
2.2.1	<a href="#">apache-openjpa-2.2.1-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-2.2.1-SNAPSHOT-source.zip</a>
2.2.0	<a href="#">apache-openjpa-2.2.0-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-2.2.0-SNAPSHOT-source.zip</a>
2.1.2	<a href="#">apache-openjpa-2.1.2-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-2.1.2-SNAPSHOT-source.zip</a>
2.0.2	<a href="#">apache-openjpa-2.0.2-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-2.0.2-SNAPSHOT-source.zip</a>
1.3.0	<a href="#">apache-openjpa-1.3.0-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-1.3.0-SNAPSHOT-source.zip</a>
1.2.3	<a href="#">apache-openjpa-1.2.3-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-1.2.3-SNAPSHOT-source.zip</a>
1.1.1	<a href="#">apache-openjpa-1.1.1-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-1.1.1-SNAPSHOT-source.zip</a>
1.0.5	<a href="#">apache-openjpa-1.0.5-SNAPSHOT-binary.zip</a>	<a href="#">apache-openjpa-1.0.5-SNAPSHOT-source.zip</a>

For the 1.2.x, 1.3.x, 2.0.x, 2.1.x and 2.2.x SNAPSHOTs, please scroll down to the bottom of the artifact list to grab the latest ones, as we're letting Maven create timestamped artifacts when publishing to the new Apache Nexus repo.

## Older incubating Releases

	Download	Release Date	Signatures
OpenJPA 0.9.7	<a href="#">openjpa-project-0.9.7-incubating-binary.zip</a>	27 April 2007	<a href="#">MD5</a> <a href="#">PGP</a>
OpenJPA 0.9.7 Source Code	<a href="#">openjpa-project-0.9.7-incubating-source.zip</a>	27 April 2007	<a href="#">MD5</a> <a href="#">PGP</a>
OpenJPA 0.9.6	<a href="#">openjpa-project-0.9.6-incubating-binary.zip</a>	29 November 2006	<a href="#">MD5</a> <a href="#">PGP</a>
OpenJPA 0.9.6 Source Code	<a href="#">openjpa-project-0.9.6-incubating-source.zip</a>	29 November 2006	<a href="#">MD5</a> <a href="#">PGP</a>

## Verifying Release Version and Revision

OpenJPA jar is self-describing and after downloading a release or nightly snapshot, you can find out the revision number included in the build by:

```
% java -jar your/path/to/openjpa.jar
```

which will print the version and revision numbers, for example:

```
OpenJPA 2.1.0-SNAPSHOT
version id: openjpa-2.1.0-SNAPSHOT-r422266:935231
Apache svn revision: 422266:935231
```

which designates that the nightly build includes Apache SVN revision 935231 as the latest.

## Verifying Releases

We strongly recommend you verify the integrity of the downloaded files with both PGP and MD5. The PGP signatures can be verified using [PGP](#) or [GPG](#). First download the [KEYS](#) as well as the \*.asc signature file for the particular distribution. Make sure you get these files from the main distribution directory, rather than from a mirror. Then verify the signatures using one of the following sets of commands:

### Verifying Release Files using the pgpk Utility

```
% pgpk -a KEYS
% pgpv openjpa-*.zip.asc
```

### Verifying Release Files using the pgp Utility

```
% pgp -ka KEYS
% pgp openjpa-*.zip.asc
```

### Verifying Release Files using the gpg Utility

```
% gpg --import KEYS
% gpg --verify openjpa-*.zip.asc
```

Alternatively, you can verify the checksums on the files. Unix programs called **md5/sha1** or **md5sum/sha1sum** are included in many unix distributions. \*sum is also available as part of [GNU Textutils](#). Windows users can get binary md5 programs from [here](#) or [here](#). [fsum](#) supports MD5 and SHA1.

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(\*\*) asm-3.2.jar can be found from <http://search.maven.org/remotecontent?filepath=asm/asm/3.2/asm-3.2.jar>.