4.10.1

* Docs  
  [User Manual](http://docs.google.com/userguide/userguide.html)  
  [Guides and Tutorials](https://guides.gradle.org)  
  [DSL Reference](http://docs.google.com/dsl/)  
  [Javadoc](http://docs.google.com/javadoc/)  
  [Release Notes](http://docs.google.com/release-notes.html)
* [Forums](https://discuss.gradle.org/)
* [Training](https://gradle.org/training/)
* [Try Gradle Enterprise](https://gradle.com/enterprise)
* [User Manual Home](http://docs.google.com/userguide/userguide.html)
* [DSL Reference Home](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
  + [Properties](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24A0E)
  + [Methods](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24ADF)

### Build script blocks

* [allprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:allprojects(groovy.lang.Closure))
* [artifacts { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:artifacts(groovy.lang.Closure))
* [buildscript { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:buildscript(groovy.lang.Closure))
* [configurations { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:configurations(groovy.lang.Closure))
* [dependencies { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:dependencies(groovy.lang.Closure))
* [repositories { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:repositories(groovy.lang.Closure))
* [sourceSets { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:sourceSets(groovy.lang.Closure))
* [subprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:subprojects(groovy.lang.Closure))
* [publishing { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:publishing(groovy.lang.Closure))

### Core types

* [Project](http://docs.google.com/org.gradle.api.Project.html)
* [Task](http://docs.google.com/org.gradle.api.Task.html)
* [Gradle](http://docs.google.com/org.gradle.api.invocation.Gradle.html)
* [Settings](http://docs.google.com/org.gradle.api.initialization.Settings.html)
* [IncludedBuild](http://docs.google.com/org.gradle.api.initialization.IncludedBuild.html)
* [Script](http://docs.google.com/org.gradle.api.Script.html)
* [JavaToolChain](http://docs.google.com/org.gradle.jvm.toolchain.JavaToolChain.html)
* [SourceSet](http://docs.google.com/org.gradle.api.tasks.SourceSet.html)
* [SourceSetOutput](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html)
* [SourceDirectorySet](http://docs.google.com/org.gradle.api.file.SourceDirectorySet.html)
* [IncrementalTaskInputs](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html)
* [Configuration](http://docs.google.com/org.gradle.api.artifacts.Configuration.html)
* [ResolutionStrategy](http://docs.google.com/org.gradle.api.artifacts.ResolutionStrategy.html)
* [ArtifactResolutionQuery](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html)
* [ComponentSelection](http://docs.google.com/org.gradle.api.artifacts.ComponentSelection.html)
* [ComponentSelectionRules](http://docs.google.com/org.gradle.api.artifacts.ComponentSelectionRules.html)
* [ExtensionAware](http://docs.google.com/org.gradle.api.plugins.ExtensionAware.html)
* [ExtraPropertiesExtension](http://docs.google.com/org.gradle.api.plugins.ExtraPropertiesExtension.html)
* [PluginDependenciesSpec](http://docs.google.com/org.gradle.plugin.use.PluginDependenciesSpec.html)
* [PluginDependencySpec](http://docs.google.com/org.gradle.plugin.use.PluginDependencySpec.html)
* [PluginManagementSpec](http://docs.google.com/org.gradle.plugin.management.PluginManagementSpec.html)
* [ResourceHandler](http://docs.google.com/org.gradle.api.resources.ResourceHandler.html)
* [TextResourceFactory](http://docs.google.com/org.gradle.api.resources.TextResourceFactory.html)

### Publishing types

* [PublishingExtension](http://docs.google.com/org.gradle.api.publish.PublishingExtension.html)
* [IvyPublication](http://docs.google.com/org.gradle.api.publish.ivy.IvyPublication.html)
* [IvyArtifact](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifact.html)
* [IvyArtifactSet](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifactSet.html)
* [IvyModuleDescriptorSpec](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorSpec.html)
* [IvyModuleDescriptorAuthor](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorAuthor.html)
* [IvyModuleDescriptorLicense](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorLicense.html)
* [IvyModuleDescriptorDescription](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorDescription.html)
* [MavenPublication](http://docs.google.com/org.gradle.api.publish.maven.MavenPublication.html)
* [MavenArtifact](http://docs.google.com/org.gradle.api.publish.maven.MavenArtifact.html)
* [MavenArtifactSet](http://docs.google.com/org.gradle.api.publish.maven.MavenArtifactSet.html)
* [MavenPom](http://docs.google.com/org.gradle.api.publish.maven.MavenPom.html)
* [MavenPomCiManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomCiManagement.html)
* [MavenPomContributor](http://docs.google.com/org.gradle.api.publish.maven.MavenPomContributor.html)
* [MavenPomContributorSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomContributorSpec.html)
* [MavenPomDeveloper](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDeveloper.html)
* [MavenPomDeveloperSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDeveloperSpec.html)
* [MavenPomDistributionManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDistributionManagement.html)
* [MavenPomIssueManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomIssueManagement.html)
* [MavenPomLicense](http://docs.google.com/org.gradle.api.publish.maven.MavenPomLicense.html)
* [MavenPomLicenseSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomLicenseSpec.html)
* [MavenPomMailingList](http://docs.google.com/org.gradle.api.publish.maven.MavenPomMailingList.html)
* [MavenPomMailingListSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomMailingListSpec.html)
* [MavenPomOrganization](http://docs.google.com/org.gradle.api.publish.maven.MavenPomOrganization.html)
* [MavenPomRelocation](http://docs.google.com/org.gradle.api.publish.maven.MavenPomRelocation.html)
* [MavenPomScm](http://docs.google.com/org.gradle.api.publish.maven.MavenPomScm.html)

### Container types

* [TaskContainer](http://docs.google.com/org.gradle.api.tasks.TaskContainer.html)
* [ConfigurationContainer](http://docs.google.com/org.gradle.api.artifacts.ConfigurationContainer.html)
* [RepositoryHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.RepositoryHandler.html)
* [DependencyHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.DependencyHandler.html)
* [ArtifactHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.ArtifactHandler.html)

### Build Cache types

* [BuildCacheConfiguration](http://docs.google.com/org.gradle.caching.configuration.BuildCacheConfiguration.html)
* [DirectoryBuildCache](http://docs.google.com/org.gradle.caching.local.DirectoryBuildCache.html)
* [HttpBuildCache](http://docs.google.com/org.gradle.caching.http.HttpBuildCache.html)

### Input Normalization types

* [InputNormalizationHandler](http://docs.google.com/org.gradle.normalization.InputNormalizationHandler.html)
* [InputNormalization](http://docs.google.com/org.gradle.normalization.InputNormalization.html)
* [RuntimeClasspathNormalization](http://docs.google.com/org.gradle.normalization.RuntimeClasspathNormalization.html)

### Help Task types

* [TaskReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.TaskReportTask.html)
* [ProjectReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.ProjectReportTask.html)
* [DependencyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyReportTask.html)
* [DependencyInsightReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyInsightReportTask.html)
* [PropertyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.PropertyReportTask.html)
* [ComponentReport](http://docs.google.com/org.gradle.api.reporting.components.ComponentReport.html)
* [DependentComponentsReport](http://docs.google.com/org.gradle.api.reporting.dependents.DependentComponentsReport.html)
* [ModelReport](http://docs.google.com/org.gradle.api.reporting.model.ModelReport.html)

### Task types

* [AntlrTask](http://docs.google.com/org.gradle.api.plugins.antlr.AntlrTask.html)
* [BuildEnvironmentReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.BuildEnvironmentReportTask.html)
* [Checkstyle](http://docs.google.com/org.gradle.api.plugins.quality.Checkstyle.html)
* [CodeNarc](http://docs.google.com/org.gradle.api.plugins.quality.CodeNarc.html)
* [CompareGradleBuilds](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html)
* [Copy](http://docs.google.com/org.gradle.api.tasks.Copy.html)
* [CreateStartScripts](http://docs.google.com/org.gradle.jvm.application.tasks.CreateStartScripts.html)
* [Delete](http://docs.google.com/org.gradle.api.tasks.Delete.html)
* [Ear](http://docs.google.com/org.gradle.plugins.ear.Ear.html)
* [Exec](http://docs.google.com/org.gradle.api.tasks.Exec.html)
* [FindBugs](http://docs.google.com/org.gradle.api.plugins.quality.FindBugs.html)
* [GenerateIvyDescriptor](http://docs.google.com/org.gradle.api.publish.ivy.tasks.GenerateIvyDescriptor.html)
* [GenerateMavenPom](http://docs.google.com/org.gradle.api.publish.maven.tasks.GenerateMavenPom.html)
* [GenerateBuildDashboard](http://docs.google.com/org.gradle.api.reporting.GenerateBuildDashboard.html)
* [GradleBuild](http://docs.google.com/org.gradle.api.tasks.GradleBuild.html)
* [GroovyCompile](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompile.html)
* [Groovydoc](http://docs.google.com/org.gradle.api.tasks.javadoc.Groovydoc.html)
* [HtmlDependencyReportTask](http://docs.google.com/org.gradle.api.reporting.dependencies.HtmlDependencyReportTask.html)
* [JacocoReport](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoReport.html)
* [JacocoMerge](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoMerge.html)
* [JacocoCoverageVerification](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoCoverageVerification.html)
* [Jar](http://docs.google.com/org.gradle.api.tasks.bundling.Jar.html)
* [JavaCompile](http://docs.google.com/org.gradle.api.tasks.compile.JavaCompile.html)
* [Javadoc](http://docs.google.com/org.gradle.api.tasks.javadoc.Javadoc.html)
* [JavaExec](http://docs.google.com/org.gradle.api.tasks.JavaExec.html)
* [JDepend](http://docs.google.com/org.gradle.api.plugins.quality.JDepend.html)
* [Pmd](http://docs.google.com/org.gradle.api.plugins.quality.Pmd.html)
* [PublishToIvyRepository](http://docs.google.com/org.gradle.api.publish.ivy.tasks.PublishToIvyRepository.html)
* [PublishToMavenRepository](http://docs.google.com/org.gradle.api.publish.maven.tasks.PublishToMavenRepository.html)
* [ScalaCompile](http://docs.google.com/org.gradle.api.tasks.scala.ScalaCompile.html)
* [ScalaDoc](http://docs.google.com/org.gradle.api.tasks.scala.ScalaDoc.html)
* [InitBuild](http://docs.google.com/org.gradle.buildinit.tasks.InitBuild.html)
* [Sign](http://docs.google.com/org.gradle.plugins.signing.Sign.html)
* [Sync](http://docs.google.com/org.gradle.api.tasks.Sync.html)
* [Tar](http://docs.google.com/org.gradle.api.tasks.bundling.Tar.html)
* [AbstractTestTask](http://docs.google.com/org.gradle.api.tasks.testing.AbstractTestTask.html)
* [Test](http://docs.google.com/org.gradle.api.tasks.testing.Test.html)
* [TestReport](http://docs.google.com/org.gradle.api.tasks.testing.TestReport.html)
* [Upload](http://docs.google.com/org.gradle.api.tasks.Upload.html)
* [War](http://docs.google.com/org.gradle.api.tasks.bundling.War.html)
* [Wrapper](http://docs.google.com/org.gradle.api.tasks.wrapper.Wrapper.html)
* [WriteProperties](http://docs.google.com/org.gradle.api.tasks.WriteProperties.html)
* [Zip](http://docs.google.com/org.gradle.api.tasks.bundling.Zip.html)

### Reporting types

* [CustomizableHtmlReport](http://docs.google.com/org.gradle.api.reporting.CustomizableHtmlReport.html)
* [SingleFileReport](http://docs.google.com/org.gradle.api.reporting.SingleFileReport.html)
* [DirectoryReport](http://docs.google.com/org.gradle.api.reporting.DirectoryReport.html)
* [FindBugsXmlReport](http://docs.google.com/org.gradle.api.plugins.quality.FindBugsXmlReport.html)
* [Report](http://docs.google.com/org.gradle.api.reporting.Report.html)
* [Reporting](http://docs.google.com/org.gradle.api.reporting.Reporting.html)
* [ReportContainer](http://docs.google.com/org.gradle.api.reporting.ReportContainer.html)
* [ReportingExtension](http://docs.google.com/org.gradle.api.reporting.ReportingExtension.html)

### Eclipse/IDEA model types

* [EclipseModel](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseModel.html)
* [EclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseProject.html)
* [EclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseClasspath.html)
* [EclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseJdt.html)
* [EclipseWtp](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtp.html)
* [EclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtpComponent.html)
* [EclipseWtpFacet](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtpFacet.html)
* [IdeaModel](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModel.html)
* [IdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaProject.html)
* [IdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModule.html)
* [IdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaWorkspace.html)
* [XmlFileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.XmlFileContentMerger.html)
* [FileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.FileContentMerger.html)

### Eclipse/IDEA task types

* [GenerateEclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseProject.html)
* [GenerateEclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseClasspath.html)
* [GenerateEclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseJdt.html)
* [GenerateEclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpComponent.html)
* [GenerateEclipseWtpFacet](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpFacet.html)
* [GenerateIdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaModule.html)
* [GenerateIdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaProject.html)
* [GenerateIdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaWorkspace.html)

### Native software types

* [PrebuiltLibrary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltLibrary.html)
* [PrebuiltSharedLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltSharedLibraryBinary.html)
* [PrebuiltStaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltStaticLibraryBinary.html)
* [NativeComponentSpec](http://docs.google.com/org.gradle.nativeplatform.NativeComponentSpec.html)
* [NativeExecutableSpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableSpec.html)
* [NativeLibrarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeLibrarySpec.html)
* [NativeTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteSpec.html)
* [CUnitTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteSpec.html)
* [GoogleTestTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteSpec.html)
* [NativeBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeBinarySpec.html)
* [NativeExecutableBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableBinarySpec.html)
* [NativeLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeLibraryBinarySpec.html)
* [SharedLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.SharedLibraryBinarySpec.html)
* [StaticLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.StaticLibraryBinarySpec.html)
* [NativeTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteBinarySpec.html)
* [CUnitTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteBinarySpec.html)
* [GoogleTestTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteBinarySpec.html)
* [NativePlatform](http://docs.google.com/org.gradle.nativeplatform.platform.NativePlatform.html)
* [BuildType](http://docs.google.com/org.gradle.nativeplatform.BuildType.html)
* [Flavor](http://docs.google.com/org.gradle.nativeplatform.Flavor.html)
* [Gcc](http://docs.google.com/org.gradle.nativeplatform.toolchain.Gcc.html)
* [Clang](http://docs.google.com/org.gradle.nativeplatform.toolchain.Clang.html)
* [VisualCpp](http://docs.google.com/org.gradle.nativeplatform.toolchain.VisualCpp.html)
* [AssemblerSourceSet](http://docs.google.com/org.gradle.language.assembler.AssemblerSourceSet.html)
* [CSourceSet](http://docs.google.com/org.gradle.language.c.CSourceSet.html)
* [CppSourceSet](http://docs.google.com/org.gradle.language.cpp.CppSourceSet.html)
* [ObjectiveCSourceSet](http://docs.google.com/org.gradle.language.objectivec.ObjectiveCSourceSet.html)
* [ObjectiveCppSourceSet](http://docs.google.com/org.gradle.language.objectivecpp.ObjectiveCppSourceSet.html)
* [WindowsResourceSet](http://docs.google.com/org.gradle.language.rc.WindowsResourceSet.html)
* [VisualStudioProject](http://docs.google.com/org.gradle.ide.visualstudio.VisualStudioProject.html)
* [VisualStudioSolution](http://docs.google.com/org.gradle.ide.visualstudio.VisualStudioSolution.html)
* [NativeExecutable](http://docs.google.com/org.gradle.nativeplatform.NativeExecutable.html)
* [NativeLibrary](http://docs.google.com/org.gradle.nativeplatform.NativeLibrary.html)
* [NativeBinary](http://docs.google.com/org.gradle.nativeplatform.NativeBinary.html)
* [NativeExecutableBinary](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableBinary.html)
* [SharedLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.SharedLibraryBinary.html)
* [StaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.StaticLibraryBinary.html)

### Native component task types

* [CppCompile](http://docs.google.com/org.gradle.language.cpp.tasks.CppCompile.html)
* [CCompile](http://docs.google.com/org.gradle.language.c.tasks.CCompile.html)
* [Assemble](http://docs.google.com/org.gradle.language.assembler.tasks.Assemble.html)
* [ObjectiveCCompile](http://docs.google.com/org.gradle.language.objectivec.tasks.ObjectiveCCompile.html)
* [ObjectiveCppCompile](http://docs.google.com/org.gradle.language.objectivecpp.tasks.ObjectiveCppCompile.html)
* [WindowsResourceCompile](http://docs.google.com/org.gradle.language.rc.tasks.WindowsResourceCompile.html)
* [LinkExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkExecutable.html)
* [LinkSharedLibrary](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkSharedLibrary.html)
* [CreateStaticLibrary](http://docs.google.com/org.gradle.nativeplatform.tasks.CreateStaticLibrary.html)
* [InstallExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.InstallExecutable.html)
* [RunTestExecutable](http://docs.google.com/org.gradle.nativeplatform.test.tasks.RunTestExecutable.html)

JavaExec

**Table of Contents**

[Properties](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24A0E)[Methods](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24ADF)[Script blocks](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24B72)[Property details](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24B77)[Method details](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#N24D4D)

| API Documentation: | [JavaExec](http://docs.google.com/javadoc/org/gradle/api/tasks/JavaExec.html) |
| --- | --- |

Executes a Java application in a child process.

Similar to [Exec](http://docs.google.com/dsl/org.gradle.api.tasks.Exec.html), but starts a JVM with the given classpath and application class.

apply plugin: 'java'  
  
task runApp(type: JavaExec) {  
 classpath = sourceSets.main.runtimeClasspath  
  
 main = 'package.Main'  
  
 // arguments to pass to the application  
 args 'appArg1'  
}

The process can be started in debug mode (see [JavaExec.getDebug()](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:debug)) in an ad-hoc manner by supplying the `--debug-jvm` switch when invoking the build.

gradle someJavaExecTask --debug-jvm

Properties

| Property | Description |
| --- | --- |
| [allJvmArgs](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:allJvmArgs) | The full set of arguments to use to launch the JVM for the process. This includes arguments to define system properties, the minimum/maximum heap size, and the bootstrap classpath. |
| [args](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:args) | The arguments passed to the main class to be executed. |
| [argumentProviders](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:argumentProviders) | Argument providers for the application. |
| [bootstrapClasspath](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:bootstrapClasspath) | The bootstrap classpath to use for the process. The default bootstrap classpath for the JVM is used when this classpath is empty. |
| [classpath](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:classpath) | The classpath for executing the main class. |
| [commandLine](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:commandLine) | The full command line, including the executable plus its arguments. |
| [debug](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:debug) | Determines whether debugging is enabled for the test process. When enabled — debug = true — the process is started in a suspended state, listening on port 5005. You should disable parallel test execution when debugging and you will need to reattach the debugger occasionally if you use a non-zero value for [Test.getForkEvery()](http://docs.google.com/dsl/org.gradle.api.tasks.testing.Test.html#org.gradle.api.tasks.testing.Test:forkEvery). |
| [enableAssertions](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:enableAssertions) | Returns true if assertions are enabled for the process. |
| [environment](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:environment) | The environment variables to use for the process. Defaults to the environment of this process. |
| [errorOutput](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:errorOutput) | The output stream to consume standard error from the process executing the command. Default to System.err. |
| [executable](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:executable) | The name of the executable to use. |
| [ignoreExitValue](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:ignoreExitValue) | Tells whether a non-zero exit value is ignored, or an exception thrown. Defaults to false. |
| [jvmArgs](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:jvmArgs) | The extra arguments to use to launch the JVM for the process. Does not include system properties and the minimum/maximum heap size. |
| [jvmArgumentProviders](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:jvmArgumentProviders) | Command line argument providers for the java process to fork. |
| [main](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:main) | The fully qualified name of the Main class to be executed. |
| [maxHeapSize](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:maxHeapSize) | The maximum heap size for the process, if any. |
| [standardInput](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:standardInput) | The standard input stream for the process executing the command. The stream is closed after the process completes. Defaults to an empty stream. |
| [standardOutput](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:standardOutput) | The output stream to consume standard output from the process executing the command. Defaults to System.out. |
| [systemProperties](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:systemProperties) | The system properties which will be used for the process. |
| [workingDir](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:workingDir) | The working directory for the process. Defaults to the project directory. |

Methods

| Method | Description |
| --- | --- |
| [args](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:args(java.lang.Iterable))(args) | Adds args for the main class to be executed. |
| [args](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:args(java.lang.Object%5B%5D))(args) | Adds args for the main class to be executed. |
| [bootstrapClasspath](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:bootstrapClasspath(java.lang.Object%5B%5D))(classpath) | Adds the given values to the end of the bootstrap classpath for the process. |
| [classpath](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:classpath(java.lang.Object%5B%5D))(paths) | Adds elements to the classpath for executing the main class. |
| [copyTo](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:copyTo(org.gradle.process.JavaForkOptions))(options) | Copies these options to the given options. |
| [copyTo](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:copyTo(org.gradle.process.ProcessForkOptions))(target) | Copies these options to the given target options. |
| [environment](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:environment(java.lang.String,%20java.lang.Object))(name, value) | Adds an environment variable to the environment for this process. |
| [environment](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:environment(java.util.Map))(environmentVariables) | Adds some environment variables to the environment for this process. |
| [executable](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:executable(java.lang.Object))(executable) | Sets the name of the executable to use. |
| [jvmArgs](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:jvmArgs(java.lang.Iterable))(arguments) | Adds some arguments to use to launch the JVM for the process. |
| [jvmArgs](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:jvmArgs(java.lang.Object%5B%5D))(arguments) | Adds some arguments to use to launch the JVM for the process. |
| [systemProperties](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:systemProperties(java.util.Map))(properties) | Adds some system properties to use for the process. |
| [workingDir](http://docs.google.com/org.gradle.api.tasks.JavaExec.html#org.gradle.api.tasks.JavaExec:workingDir(java.lang.Object))(dir) | Sets the working directory for the process. The supplied argument is evaluated as per [Project.file(java.lang.Object)](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:file(java.lang.Object)). |

Script blocks

No script blocks

Property details

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html)> allJvmArgs

The full set of arguments to use to launch the JVM for the process. This includes arguments to define system properties, the minimum/maximum heap size, and the bootstrap classpath.

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html)> args

The arguments passed to the main class to be executed.

Default:[]

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**CommandLineArgumentProvider**](http://docs.google.com/javadoc/org/gradle/process/CommandLineArgumentProvider.html)> argumentProviders (read-only)

Argument providers for the application.

Default:[]

[**FileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/FileCollection.html) bootstrapClasspath

The bootstrap classpath to use for the process. The default bootstrap classpath for the JVM is used when this classpath is empty.

Default:[]

[**FileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/FileCollection.html) classpath

The classpath for executing the main class.

Default:null

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html)> commandLine (read-only)

The full command line, including the executable plus its arguments.

boolean debug

Determines whether debugging is enabled for the test process. When enabled — debug = true — the process is started in a suspended state, listening on port 5005. You should disable parallel test execution when debugging and you will need to reattach the debugger occasionally if you use a non-zero value for [Test.getForkEvery()](http://docs.google.com/dsl/org.gradle.api.tasks.testing.Test.html#org.gradle.api.tasks.testing.Test:forkEvery).

Default:false

boolean enableAssertions

Returns true if assertions are enabled for the process.

Default:false

[**Map**](http://download.oracle.com/javase/8/docs/api/java/util/Map.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html), [**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)> environment

The environment variables to use for the process. Defaults to the environment of this process.

Default:Current process' environment

[**OutputStream**](http://download.oracle.com/javase/8/docs/api/java/io/OutputStream.html) errorOutput

The output stream to consume standard error from the process executing the command. Default to System.err.

Default:System.err

[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) executable

The name of the executable to use.

Default:java executable for current JVM

boolean ignoreExitValue

Tells whether a non-zero exit value is ignored, or an exception thrown. Defaults to false.

Default:false

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html)> jvmArgs

The extra arguments to use to launch the JVM for the process. Does not include system properties and the minimum/maximum heap size.

Default:[]

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**CommandLineArgumentProvider**](http://docs.google.com/javadoc/org/gradle/process/CommandLineArgumentProvider.html)> jvmArgumentProviders (read-only)

Command line argument providers for the java process to fork.

Default:[]

[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) main

The fully qualified name of the Main class to be executed.

Default:null

[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) maxHeapSize

The maximum heap size for the process, if any.

Default:null

[**InputStream**](http://download.oracle.com/javase/8/docs/api/java/io/InputStream.html) standardInput

The standard input stream for the process executing the command. The stream is closed after the process completes. Defaults to an empty stream.

Default:An empty InputStream

[**OutputStream**](http://download.oracle.com/javase/8/docs/api/java/io/OutputStream.html) standardOutput

The output stream to consume standard output from the process executing the command. Defaults to System.out.

Default:System.out

[**Map**](http://download.oracle.com/javase/8/docs/api/java/util/Map.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html), [**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)> systemProperties

The system properties which will be used for the process.

Default:[:]

[**File**](http://download.oracle.com/javase/8/docs/api/java/io/File.html) workingDir

The working directory for the process. Defaults to the project directory.

Default:project.projectDir

Method details

[**JavaExecSpec**](http://docs.google.com/javadoc/org/gradle/process/JavaExecSpec.html) args([**Iterable**](http://download.oracle.com/javase/8/docs/api/java/lang/Iterable.html)<?> args)

Adds args for the main class to be executed.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) args([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)... args)

Adds args for the main class to be executed.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) bootstrapClasspath([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)... classpath)

Adds the given values to the end of the bootstrap classpath for the process.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) classpath([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)... paths)

Adds elements to the classpath for executing the main class.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) copyTo([**JavaForkOptions**](http://docs.google.com/javadoc/org/gradle/process/JavaForkOptions.html) options)

Copies these options to the given options.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) copyTo([**ProcessForkOptions**](http://docs.google.com/javadoc/org/gradle/process/ProcessForkOptions.html) target)

Copies these options to the given target options.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) environment([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) value)

Adds an environment variable to the environment for this process.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) environment([**Map**](http://download.oracle.com/javase/8/docs/api/java/util/Map.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html), ?> environmentVariables)

Adds some environment variables to the environment for this process.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) executable([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) executable)

Sets the name of the executable to use.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) jvmArgs([**Iterable**](http://download.oracle.com/javase/8/docs/api/java/lang/Iterable.html)<?> arguments)

Adds some arguments to use to launch the JVM for the process.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) jvmArgs([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)... arguments)

Adds some arguments to use to launch the JVM for the process.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) systemProperties([**Map**](http://download.oracle.com/javase/8/docs/api/java/util/Map.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html), ?> properties)

Adds some system properties to use for the process.

[**JavaExec**](http://docs.google.com/dsl/org.gradle.api.tasks.JavaExec.html) workingDir([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) dir)

Sets the working directory for the process. The supplied argument is evaluated as per [Project.file(java.lang.Object)](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:file(java.lang.Object)).

**Docs**

* [User Manual](http://docs.google.com/userguide/userguide.html)
* [DSL Reference](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
* [Javadoc](http://docs.google.com/javadoc/)

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