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.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#N2D835)
  + [Methods](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#N2D8BC)

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* [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))
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* [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))

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* [Task](http://docs.google.com/org.gradle.api.Task.html)
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* [IncludedBuild](http://docs.google.com/org.gradle.api.initialization.IncludedBuild.html)
* [Script](http://docs.google.com/org.gradle.api.Script.html)
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* [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)
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* [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)

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* [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)
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* [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)
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* [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)

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

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

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* [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)

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* [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)
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* [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)
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* [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)

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* [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)
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* [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)

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* [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)
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* [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)
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* [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)
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* [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)
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* [LinkExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkExecutable.html)
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AbstractNativeSourceCompileTask

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

| Known Subtypes: | | [CppCompile](http://docs.google.com/dsl/org.gradle.language.cpp.tasks.CppCompile.html) | [ObjectiveCCompile](http://docs.google.com/dsl/org.gradle.language.objectivec.tasks.ObjectiveCCompile.html) |  | | --- | --- | --- | | [CCompile](http://docs.google.com/dsl/org.gradle.language.c.tasks.CCompile.html) | [ObjectiveCppCompile](http://docs.google.com/dsl/org.gradle.language.objectivecpp.tasks.ObjectiveCppCompile.html) |  | |
| --- | --- | --- | --- | --- | --- | --- | --- |

Note: This class is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Compiles native source files into object files.

Properties

| Property | Description |
| --- | --- |
| [compilerArgs](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:compilerArgs) | Incubating  *Additional* arguments to provide to the compiler. |
| [debuggable](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:debuggable) | Incubating  Should the compiler generate debuggable code? |
| [includes](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:includes) | Incubating  The header directories to be used for compilation. |
| [macros](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:macros) | Incubating  Macros that should be defined for the compiler. |
| [objectFileDir](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:objectFileDir) | Incubating  The directory where object files will be generated. |
| [optimized](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:optimized) | Incubating  Should the compiler generate optimized code? |
| [positionIndependentCode](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:positionIndependentCode) | Incubating  Should the compiler generate position independent code? |
| [source](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:source) | Incubating  The source files to be compiled. |
| [systemIncludes](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:systemIncludes) | Incubating  The system include directories to be used for compilation. |
| [targetPlatform](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:targetPlatform) | Incubating  The platform being compiled for. |
| [toolChain](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:toolChain) | Incubating  The tool chain used for compilation. |

Methods

| Method | Description |
| --- | --- |
| [includes](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:includes(java.lang.Object))(includeRoots) | Incubating  Add directories where the compiler should search for header files. |
| [source](http://docs.google.com/org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask.html#org.gradle.language.nativeplatform.tasks.AbstractNativeSourceCompileTask:source(java.lang.Object))(sourceFiles) | Incubating  Adds a set of source files to be compiled. The provided sourceFiles object is evaluated as per [Project.files(java.lang.Object[])](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:files(java.lang.Object%5B%5D)). |

Script blocks

No script blocks

Property details

[**ListProperty**](http://docs.google.com/javadoc/org/gradle/api/provider/ListProperty.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html)> compilerArgs (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

*Additional* arguments to provide to the compiler.

boolean debuggable

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Should the compiler generate debuggable code?

[**ConfigurableFileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/ConfigurableFileCollection.html) includes (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The header directories to be used for compilation.

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

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Macros that should be defined for the compiler.

[**DirectoryProperty**](http://docs.google.com/javadoc/org/gradle/api/file/DirectoryProperty.html) objectFileDir (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The directory where object files will be generated.

boolean optimized

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Should the compiler generate optimized code?

boolean positionIndependentCode

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Should the compiler generate position independent code?

[**ConfigurableFileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/ConfigurableFileCollection.html) source (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The source files to be compiled.

[**ConfigurableFileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/ConfigurableFileCollection.html) systemIncludes (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The system include directories to be used for compilation.

[**Property**](http://docs.google.com/javadoc/org/gradle/api/provider/Property.html)<[**NativePlatform**](http://docs.google.com/dsl/org.gradle.nativeplatform.platform.NativePlatform.html)> targetPlatform (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The platform being compiled for.

[**Property**](http://docs.google.com/javadoc/org/gradle/api/provider/Property.html)<[**NativeToolChain**](http://docs.google.com/javadoc/org/gradle/nativeplatform/toolchain/NativeToolChain.html)> toolChain (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The tool chain used for compilation.

Method details

void includes([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) includeRoots)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Add directories where the compiler should search for header files.

void source([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) sourceFiles)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Adds a set of source files to be compiled. The provided sourceFiles object is evaluated as per [Project.files(java.lang.Object[])](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:files(java.lang.Object%5B%5D)).

**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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