| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) | **Use** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute//class-usePrintJobAttribute.html)    [**NO FRAMES**](http://docs.google.com/PrintJobAttribute.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**javax.print.attribute.PrintJobAttribute**

| Packages that use [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) | |
| --- | --- |
| [**javax.print.attribute**](#3znysh7) | Provides classes and interfaces that describe the types of JavaTM Print Service attributes and how they can be collected into attribute sets. |
| [**javax.print.attribute.standard**](#2et92p0) | Package javax.print.attribute.standard contains classes for specific printing attributes. |

| Uses of [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) | |
| --- | --- |

| Constructors in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) with parameters of type [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) | |
| --- | --- |
| [**HashPrintJobAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintJobAttributeSet.html#HashPrintJobAttributeSet(javax.print.attribute.PrintJobAttribute))([PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) attribute)            Construct a new hash print job attribute set, initially populated with the given value. |
| [**HashPrintJobAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintJobAttributeSet.html#HashPrintJobAttributeSet(javax.print.attribute.PrintJobAttribute%5B%5D))([PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html)[] attributes)            Construct a new hash print job attribute set, initially populated with the values from the given array. |

| Uses of [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) in [javax.print.attribute.standard](http://docs.google.com/javax/print/attribute/standard/package-summary.html) | |
| --- | --- |

| Classes in [javax.print.attribute.standard](http://docs.google.com/javax/print/attribute/standard/package-summary.html) that implement [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) | |
| --- | --- |
| class | [**Chromaticity**](http://docs.google.com/javax/print/attribute/standard/Chromaticity.html)            Class Chromaticity is a printing attribute class, an enumeration, that specifies monochrome or color printing. |
| class | [**Copies**](http://docs.google.com/javax/print/attribute/standard/Copies.html)            Class Copies is an integer valued printing attribute class that specifies the number of copies to be printed. |
| class | [**DateTimeAtCompleted**](http://docs.google.com/javax/print/attribute/standard/DateTimeAtCompleted.html)            Class DateTimeAtCompleted is a printing attribute class, a date-time attribute, that indicates the date and time at which the Print Job completed (or was canceled or aborted). |
| class | [**DateTimeAtCreation**](http://docs.google.com/javax/print/attribute/standard/DateTimeAtCreation.html)            Class DateTimeAtCreation is a printing attribute class, a date-time attribute, that indicates the date and time at which the Print Job was created. |
| class | [**DateTimeAtProcessing**](http://docs.google.com/javax/print/attribute/standard/DateTimeAtProcessing.html)            Class DateTimeAtProcessing is a printing attribute class, a date-time attribute, that indicates the date and time at which the Print Job first began processing. |
| class | [**Destination**](http://docs.google.com/javax/print/attribute/standard/Destination.html)            Class Destination is a printing attribute class, a URI, that is used to indicate an alternate destination for the spooled printer formatted data. |
| class | [**Fidelity**](http://docs.google.com/javax/print/attribute/standard/Fidelity.html)            Class Fidelity is a printing attribute class, an enumeration, that indicates whether total fidelity to client supplied print request attributes is required. |
| class | [**Finishings**](http://docs.google.com/javax/print/attribute/standard/Finishings.html)            Class Finishings is a printing attribute class, an enumeration, that identifies whether the printer applies a finishing operation of some kind of binding to each copy of each printed document in the job. |
| class | [**JobHoldUntil**](http://docs.google.com/javax/print/attribute/standard/JobHoldUntil.html)            Class JobHoldUntil is a printing attribute class, a date-time attribute, that specifies the exact date and time at which the job must become a candidate for printing. |
| class | [**JobImpressions**](http://docs.google.com/javax/print/attribute/standard/JobImpressions.html)            Class JobImpressions is an integer valued printing attribute class that specifies the total size in number of impressions of the document(s) being submitted. |
| class | [**JobImpressionsCompleted**](http://docs.google.com/javax/print/attribute/standard/JobImpressionsCompleted.html)            Class JobImpressionsCompleted is an integer valued printing attribute class that specifies the number of impressions completed for the job so far. |
| class | [**JobKOctets**](http://docs.google.com/javax/print/attribute/standard/JobKOctets.html)            Class JobKOctets is an integer valued printing attribute class that specifies the total size of the document(s) in K octets, i.e., in units of 1024 octets requested to be processed in the job. |
| class | [**JobKOctetsProcessed**](http://docs.google.com/javax/print/attribute/standard/JobKOctetsProcessed.html)            Class JobKOctetsProcessed is an integer valued printing attribute class that specifies the total number of print data octets processed so far in K octets, i.e., in units of 1024 octets. |
| class | [**JobMediaSheets**](http://docs.google.com/javax/print/attribute/standard/JobMediaSheets.html)            Class JobMediaSheets is an integer valued printing attribute class that specifies the total number of media sheets to be produced for this job. |
| class | [**JobMediaSheetsCompleted**](http://docs.google.com/javax/print/attribute/standard/JobMediaSheetsCompleted.html)            Class JobMediaSheetsCompleted is an integer valued printing attribute class that specifies the number of media sheets which have completed marking and stacking for the entire job so far, whether those sheets have been processed on one side or on both. |
| class | [**JobMessageFromOperator**](http://docs.google.com/javax/print/attribute/standard/JobMessageFromOperator.html)            Class JobMessageFromOperator is a printing attribute class, a text attribute, that provides a message from an operator, system administrator, or "intelligent" process to indicate to the end user the reasons for modification or other management action taken on a job. |
| class | [**JobName**](http://docs.google.com/javax/print/attribute/standard/JobName.html)            Class JobName is a printing attribute class, a text attribute, that specifies the name of a print job. |
| class | [**JobOriginatingUserName**](http://docs.google.com/javax/print/attribute/standard/JobOriginatingUserName.html)            Class JobOriginatingUserName is a printing attribute class, a text attribute, that contains the name of the end user that submitted the print job. |
| class | [**JobPriority**](http://docs.google.com/javax/print/attribute/standard/JobPriority.html)            Class JobPriority is an integer valued printing attribute class that specifies a print job's priority. |
| class | [**JobSheets**](http://docs.google.com/javax/print/attribute/standard/JobSheets.html)            Class JobSheets is a printing attribute class, an enumeration, that determines which job start and end sheets, if any, must be printed with a job. |
| class | [**JobState**](http://docs.google.com/javax/print/attribute/standard/JobState.html)            JobState is a printing attribute class, an enumeration, that identifies the current state of a print job. |
| class | [**JobStateReasons**](http://docs.google.com/javax/print/attribute/standard/JobStateReasons.html)            Class JobStateReasons is a printing attribute class, a set of enumeration values, that provides additional information about the job's current state, i.e., information that augments the value of the job's [JobState](http://docs.google.com/javax/print/attribute/standard/JobState.html) attribute. |
| class | [**Media**](http://docs.google.com/javax/print/attribute/standard/Media.html)            Class Media is a printing attribute class that specifies the medium on which to print. |
| class | [**MediaName**](http://docs.google.com/javax/print/attribute/standard/MediaName.html)            Class MediaName is a subclass of Media, a printing attribute class (an enumeration) that specifies the media for a print job as a name. |
| class | [**MediaPrintableArea**](http://docs.google.com/javax/print/attribute/standard/MediaPrintableArea.html)            Class MediaPrintableArea is a printing attribute used to distinguish the printable and non-printable areas of media. |
| class | [**MediaSizeName**](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html)            Class MediaSizeName is a subclass of Media. |
| class | [**MediaTray**](http://docs.google.com/javax/print/attribute/standard/MediaTray.html)            Class MediaTray is a subclass of Media. |
| class | [**MultipleDocumentHandling**](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html)            Class MultipleDocumentHandling is a printing attribute class, an enumeration, that controls finishing operations and the placement of one or more print-stream pages into impressions and onto media sheets. |
| class | [**NumberOfDocuments**](http://docs.google.com/javax/print/attribute/standard/NumberOfDocuments.html)            Class NumberOfDocuments is an integer valued printing attribute that indicates the number of individual docs the printer has accepted for this job, regardless of whether the docs' print data has reached the printer or not. |
| class | [**NumberOfInterveningJobs**](http://docs.google.com/javax/print/attribute/standard/NumberOfInterveningJobs.html)            Class NumberOfInterveningJobs is an integer valued printing attribute that indicates the number of jobs that are ahead of this job in the relative chronological order of expected time to complete (i.e., the current scheduled order). |
| class | [**NumberUp**](http://docs.google.com/javax/print/attribute/standard/NumberUp.html)            Class NumberUp is an integer valued printing attribute class that specifies the number of print-stream pages to impose upon a single side of an instance of a selected medium. |
| class | [**OrientationRequested**](http://docs.google.com/javax/print/attribute/standard/OrientationRequested.html)            Class OrientationRequested is a printing attribute class, an enumeration, that indicates the desired orientation for printed print-stream pages; it does not describe the orientation of the client-supplied print-stream pages. |
| class | [**OutputDeviceAssigned**](http://docs.google.com/javax/print/attribute/standard/OutputDeviceAssigned.html)            Class OutputDeviceAssigned is a printing attribute class, a text attribute, that identifies the output device to which the service has assigned this job. |
| class | [**PageRanges**](http://docs.google.com/javax/print/attribute/standard/PageRanges.html)            Class PageRanges is a printing attribute class, a set of integers, that identifies the range(s) of print-stream pages that the Printer object uses for each copy of each document which are to be printed. |
| class | [**PresentationDirection**](http://docs.google.com/javax/print/attribute/standard/PresentationDirection.html)            Class PresentationDirection is a printing attribute class, an enumeration, that is used in conjunction with the [NumberUp](http://docs.google.com/javax/print/attribute/standard/NumberUp.html) attribute to indicate the layout of multiple print-stream pages to impose upon a single side of an instance of a selected medium. |
| class | [**PrinterResolution**](http://docs.google.com/javax/print/attribute/standard/PrinterResolution.html)            Class PrinterResolution is a printing attribute class that specifies an exact resolution supported by a printer or to be used for a print job. |
| class | [**PrintQuality**](http://docs.google.com/javax/print/attribute/standard/PrintQuality.html)            Class PrintQuality is a printing attribute class, an enumeration, that specifies the print quality that the printer uses for the job. |
| class | [**SheetCollate**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html)            Class SheetCollate is a printing attribute class, an enumeration, that specifies whether or not the media sheets of each copy of each printed document in a job are to be in sequence, when multiple copies of the document are specified by the [Copies](http://docs.google.com/javax/print/attribute/standard/Copies.html) attribute. |
| class | [**Sides**](http://docs.google.com/javax/print/attribute/standard/Sides.html)            Class Sides is a printing attribute class, an enumeration, that specifies how print-stream pages are to be imposed upon the sides of an instance of a selected medium, i.e., an impression. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html) | **Use** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute//class-usePrintJobAttribute.html)    [**NO FRAMES**](http://docs.google.com/PrintJobAttribute.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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