

Schema **dax-2.1.xsd**

schema location: **G:\GRIPHYN\PEGASUS\dax-2.1.xsd**
 targetNamespace: **http://pegasus.isi.edu/schema/DAX**

Elements Complex types Simple types
adag **FilenameType** **FileType**
PlainFilenameType **LinkageType**
StdioType **ProfileNamespace**
TransferType

element **adag**

diagram	<p>The diagram shows the structure of the adag element. It is an abstract DAG in XML, represented by a box with a dashed border. It contains a dependency section (represented by a box with a dashed border) and a job section (represented by a box with a dashed border). The job section contains a list of jobs, each with a filename and a child dependency. The filename is represented by a box with a dashed border and a cardinality of 0..∞. The job is represented by a box with a dashed border and a cardinality of 1..∞. The child dependency is represented by a box with a dashed border and a cardinality of 0..∞.</p> <p>adag abstract DAG in XML</p> <p>A dependency must not be used before all the jobs it references were declared. It is suggested to keep all jobs, all deps and all lfn together, a total of three sections.</p> <p>filename 0..∞ List of all filenames used.</p> <p>job 1..∞ Job specification in terms of a logical transformation.</p> <p>child 0..∞ List of dependencies.</p>					
namespace	http://pegasus.isi.edu/schema/DAX					
children	filename job child					
attributes	Name	Type	Use	Default	Fixed	Annotation
	version	xs:NMTOKEN	required			
	name	xs:string	required			
	index	xs:nonNegativeInteger	required			
	count	xs:nonNegativeInteger	required			
	jobCount	xs:positiveInteger	optional			
	fileCount	xs:nonNegativeInteger	optional			
	childCount	xs:nonNegativeInteger	optional			
annotation	documentation abstract DAG in XML					

element **adag/filename**

diagram	<p>The diagram shows the structure of the filename element. It is a list of all filenames used, represented by a box with a dashed border.</p> <p>filename List of all filenames used.</p>					
namespace	http://pegasus.isi.edu/schema/DAX					
type	extension of PlainFilenameType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
	link	LinkageType	optional			
	optional	xs:boolean	optional	false		
annotation	documentation List of all filenames used.					

element **adag/job**

diagram						
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	<p>job Job specification in terms of a logical transformation.</p> <p>argument Arguments on the commandline, text interrupted by filenames</p> <p>profile 0..∞ Execution environment specific data to be passed to lower levels.</p> <p>stdin stand-in for "filename", linkage is "input" fixed.</p> <p>stdout stand-in for "filename", linkage is "output" fixed.</p> <p>stderr stand-in for "filename", linkage is "output" fixed.</p> <p>uses 0..∞</p>																																																												
namespace	http://pegasus.isi.edu/schema/DAX																																																												
children	argument profile stdin stdout stderr uses																																																												
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annotation	documentation Job specification in terms of a logical transformation.																																																												

element **adag/job/argument**

<p>diagram</p> <p>argument Arguments on the commandline, text interrupted by filenames</p> <p>0..∞</p> <p>filename</p>	
namespace	http://pegasus.isi.edu/schema/DAX
children	filename
annotation	documentation Arguments on the commandline, text interrupted by filenames

element **adag/job/argument/filename**

<p>diagram</p> <p>filename</p>	
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namespace	http://pegasus.isi.edu/schema/DAX					
type	PlainFilenameType					
attributes	Name file	Type xs:string	Use required	Default	Fixed	Annotation

element **adag/job/profile**

diagram	 <p>Execution environment specific data to be passed to lower levels.</p>					
namespace	http://pegasus.isi.edu/schema/DAX					
children	filename					
attributes	Name key namespace origin	Type xs:string ProfileNamespace xs:string	Use required required optional	Default vdl	Fixed	Annotation
annotation	documentation Execution environment specific data to be passed to lower levels.					

element **adag/job/profile/filename**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
type	PlainFilenameType					
attributes	Name file	Type xs:string	Use required	Default	Fixed	Annotation

element **adag/job/stdin**

diagram	 <p>stand-in for "filename", linkage is "input" fixed.</p>					
namespace	http://pegasus.isi.edu/schema/DAX					
type	extension of StdioType					
attributes	Name file varname link	Type xs:string xs:NMTOKEN LinkageType	Use required required optional	Default	Fixed input	Annotation
annotation	documentation stand-in for "filename", linkage is "input" fixed.					

element **adag/job/stdout**

diagram	 <p>stand-in for "filename", linkage is "output" fixed.</p>					
namespace	http://pegasus.isi.edu/schema/DAX					
type	extension of StdioType					

attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
	varname	xs:NMTOKEN	required			
	link	LinkageType	optional		output	
annotation	documentation stand-in for "filename", linkage is "output" fixed.					

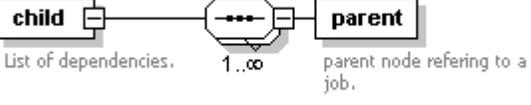
element **adag/job/stderr**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
type	extension of StudioType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
	varname	xs:NMTOKEN	required			
	link	LinkageType	optional		output	
annotation	documentation stand-in for "filename", linkage is "output" fixed.					

element **adag/job/uses**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
type	FilenameType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
	temporaryHint	xs:string	optional			
	link	LinkageType	optional			
	optional	xs:boolean	optional	false		
	register	xs:boolean	optional	true		
	transfer	TransferType	optional	true		
	type	FileType	optional	data		

element **adag/child**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
children	parent					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ref	xs:IDREF	required			
annotation	documentation List of dependencies.					

element **adag/child/parent**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					

attributes	Name ref	Type xs:IDREF	Use required	Default	Fixed	Annotation
annotation	documentation	parent node referring to a job.				

complexType **FilenameType**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
type	extension of PlainFilenameType					
used by	element adag/job/uses					
attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
	temporaryHint	xs:string	optional			
	link	LinkageType	optional			
	optional	xs:boolean	optional	false		
	register	xs:boolean	optional	true		
	transfer	TransferType	optional	true		
	type	FileType	optional	data		
annotation	documentation logical filename representation.					

complexType **PlainFilenameType**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
used by	elements adag/filename adag/job/argument/filename adag/job/profile/filename complexTypees FilenameType StdioType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
annotation	documentation defines just a filename.					

complexType **StdioType**

diagram						
namespace	http://pegasus.isi.edu/schema/DAX					
type	extension of PlainFilenameType					
used by	elements adag/job/stderr adag/job/stdin adag/job/stdout					
attributes	Name	Type	Use	Default	Fixed	Annotation
	file	xs:string	required			
	varname	xs:NMTOKEN	required			
annotation	documentation Derivation of Plain filename, with added attributes for variable name recording.					

simpleType **FileType**

namespace	http://pegasus.isi.edu/schema/DAX
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type	restriction of xs:NMTOKEN
used by	attribute FilenameType/@type
facets	enumeration data enumeration executable enumeration pattern
annotation	documentation defines the type of files data executable pattern

simpleType **LinkageType**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of xs:NMTOKEN
used by	attributes adag/filename/@link adag/job/stdin/@link adag/job/stdout/@link adag/job/stderr/@link FilenameType/@link
facets	enumeration none enumeration input enumeration output enumeration inout
annotation	documentation defines the usage of a logical filename.

simpleType **ProfileNamespace**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of xs:NMTOKEN
used by	attribute adag/job/profile/@namespace
facets	enumeration pegasus enumeration condor enumeration dagman enumeration env enumeration hints enumeration globus enumeration selector
annotation	documentation defines the legal namespaces of execution profiles.

simpleType **TransferType**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of xs:NMTOKEN
used by	attribute FilenameType/@transfer
facets	enumeration false enumeration optional enumeration true
annotation	documentation defines the tri-state transfer modes.