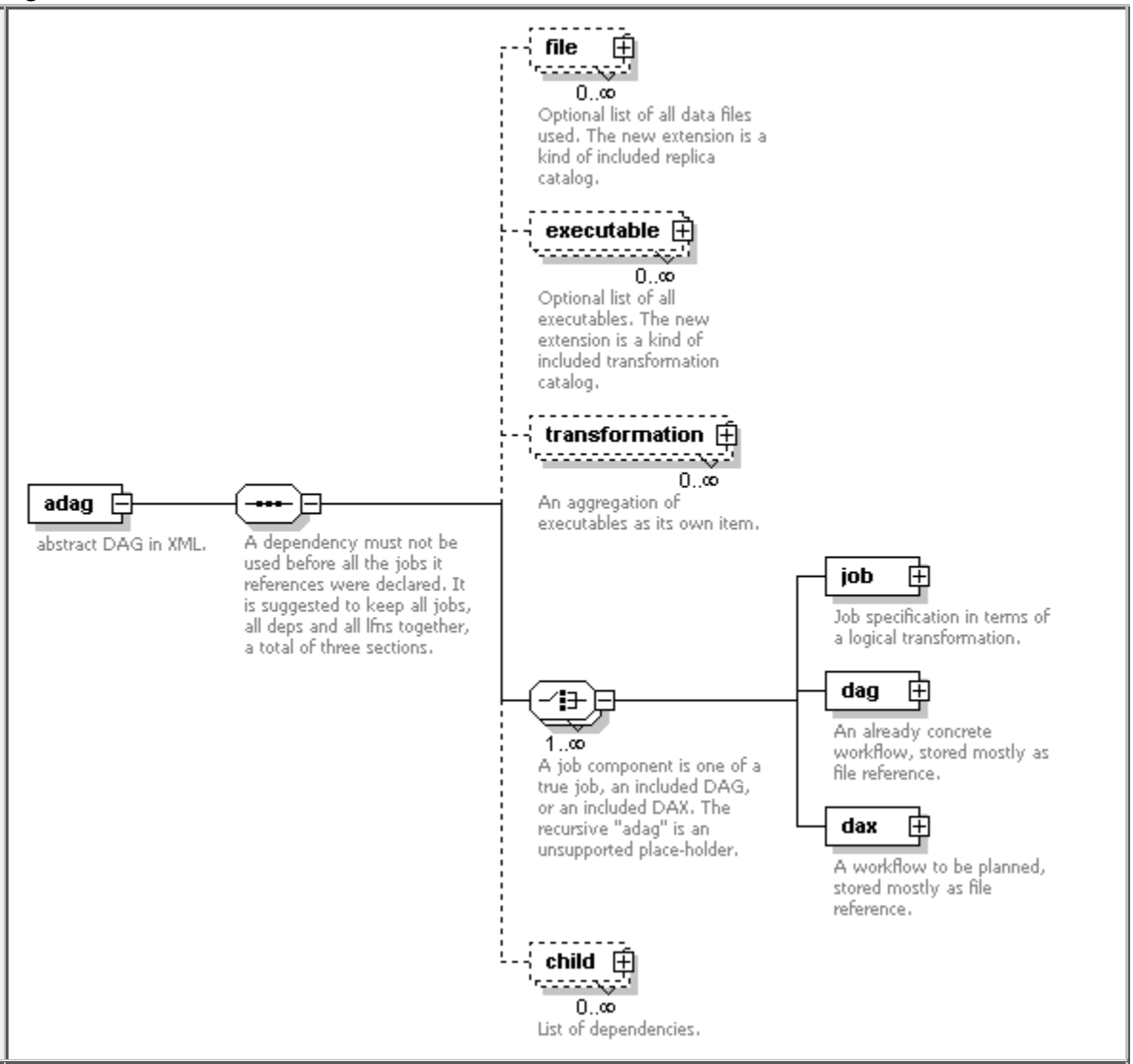
Schema **dax-3.2.xsd**

schema location: **C:\Documents and Settings\voeckler\Desktop\schema\dax-3.2\dax-3.2.xsd**
targetNamespace: **http://pegasus.isi.edu/schema/DAX**

Elements	Complex types	Simple types	Attr. groups
adag	**AbstractJobType**	**ArchitectureType**	**SystemInformationGroup**
	CatalogType	**FilenameSafePattern**	
	FilenameType	**FileType**	
	InvokeType	**LinkageType**	
	JobUsesType	**NodeIdentifierPattern**	
	PlainFilenameType	**OSType**	
	ProfileType	**ProfileNamespace**	
	TransformationUsesType	**TransferType**	
		VersionPattern	

element **adag**

diagram



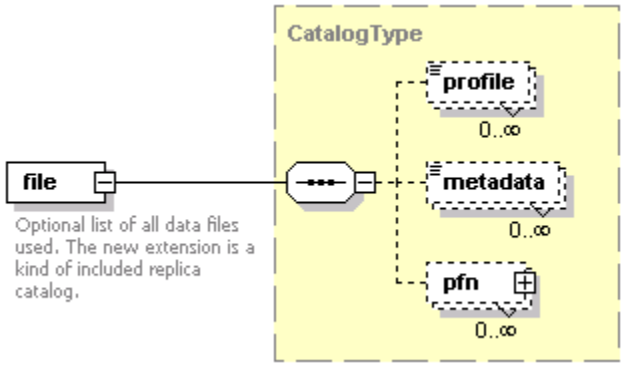
namespace	http://pegasus.isi.edu/schema/DAX

children	**file** **executable** **transformation** **job** **dag** **dax** **child**

attributes	Name	Type	Use	Default	Fixed
	version	VersionPattern	required		
	name	FilenameSafePattern	required		
	index	xs:nonNegativeInteger	optional	0	
	count	xs:nonNegativeInteger	optional	1	

element **adag/file**

diagram

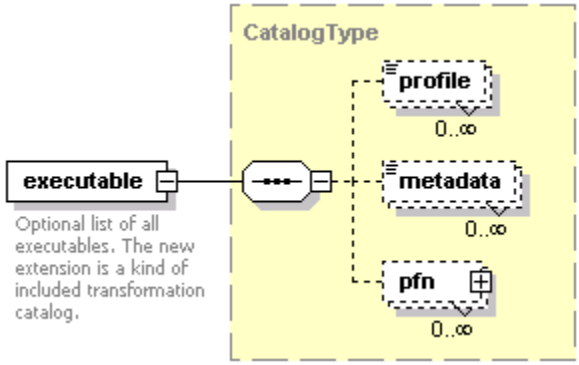


namespace	http://pegasus.isi.edu/schema/DAX
type	**CatalogType**
children	**profile** **metadata** **pfn**

attributes	Name	Type	Use	Default	Fixed
	name	xs:NMTOKEN	required		

element **adag/executable**

diagram

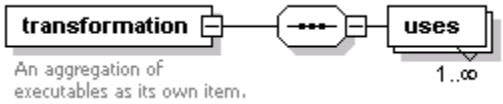


namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **CatalogType**
children	**profile** **metadata** **pfn**

attributes	Name	Type	Use	Default	Fixed
	name	xs:NMTOKEN	required		
	namespace	xs:string	optional		
	version	VersionPattern	optional		
	installed	xs:boolean	optional	true	

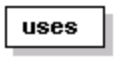
	arch	ArchitectureType	optional	x86
	os	OSType	optional	linux
	osrelease	xs:string	optional	
	osversion	VersionPattern	optional	
	glibc	VersionPattern	optional	

element **adag/transformation**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
children	**uses**

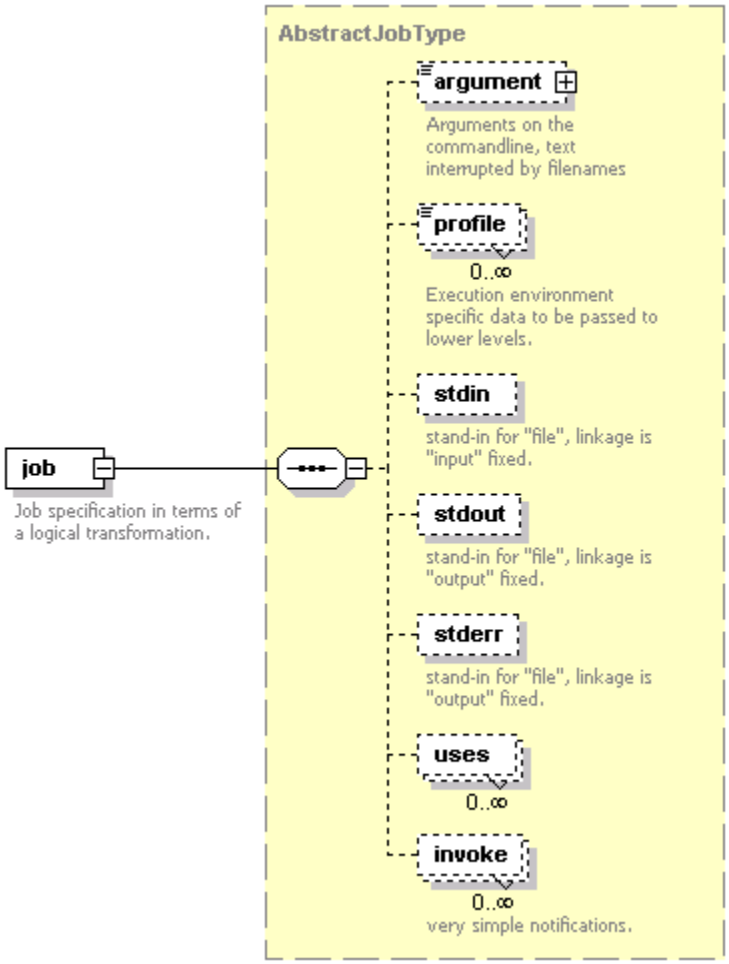
attributes	Name	Type	Use	Default	Fixed
	namespace	xs:string	optional		
	name	xs:NMTOKEN	required		
	version	VersionPattern	optional		

element **adag/transformation/uses**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	**TransformationUsesType**

attributes	Name	Type	Use	Default	Fixed
	name	xs:string	required		
	namespace	xs:string	optional		
	version	VersionPattern	optional		
	exectuable	xs:boolean	optional	true	

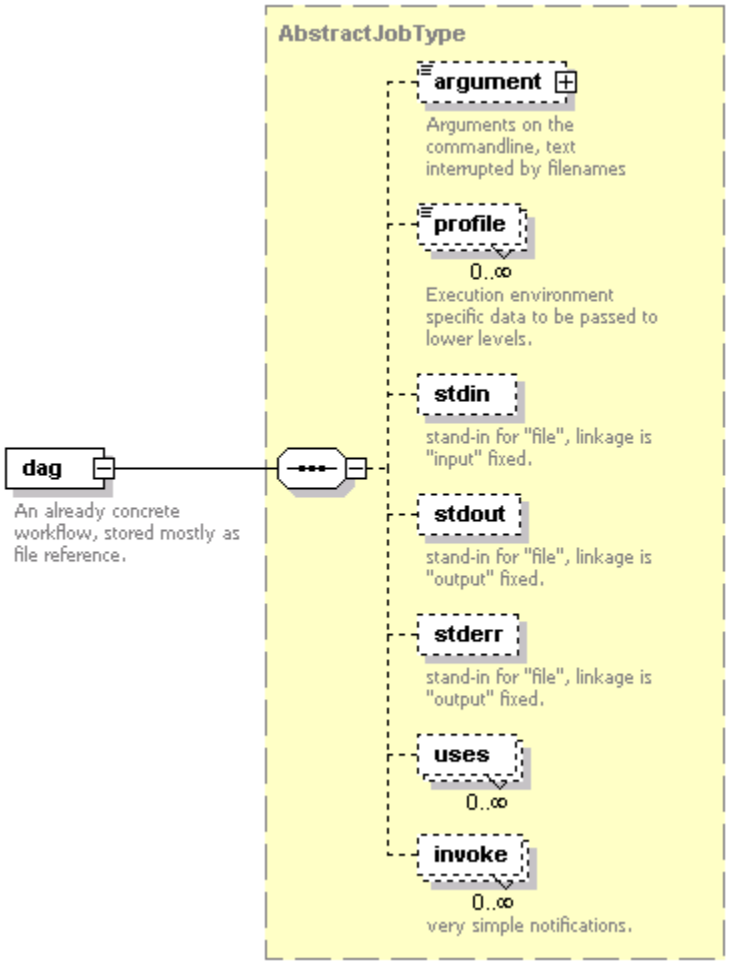
element **adag/job**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **AbstractJobType**
children	**argument profile stdin stdout stderr uses invoke**

attributes

Name	Type	Use	Default	Fixed
id	NodeIdentifierPattern	required		
node-label	xs:string	optional		
name	xs:NMTOKEN	required		
namespace	xs:string	optional		
version	VersionPattern	optional		

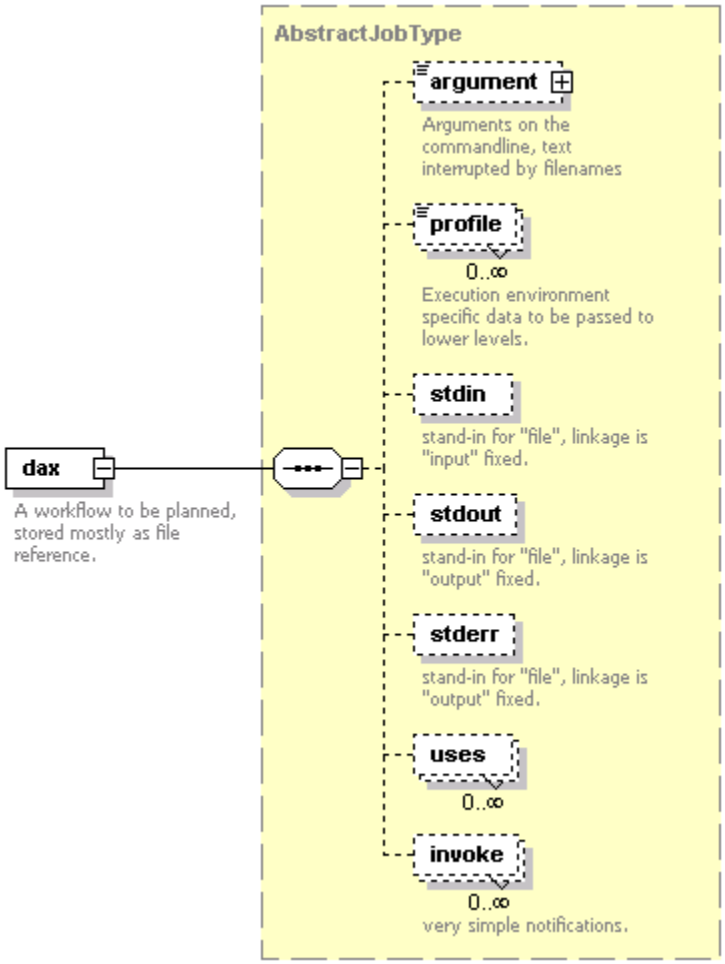
element **adag/dag**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **AbstractJobType**
children	**argument profile stdin stdout stderr uses invoke**

attributes

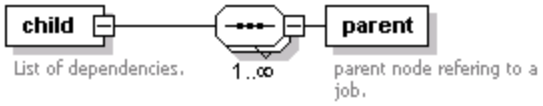
Name	Type	Use	Default	Fixed
id	NodeIdentifierPattern	required		
node-label	xs:string	optional		
file	FilenameSafePattern	required		

element **adag/dax**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **AbstractJobType**
children	**argument profile stdin stdout stderr uses invoke**

attributes	Name	Type	Use	Default	Fixed
	id	NodeIdentifierPattern	required		
	node-label	xs:string	optional		
	file	FilenameSafePattern	required		

element **adag/child**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
children	**parent**

attributes	Name	Type	Use	Default	Fixed
	ref	NodeIdentifierPattern	required		

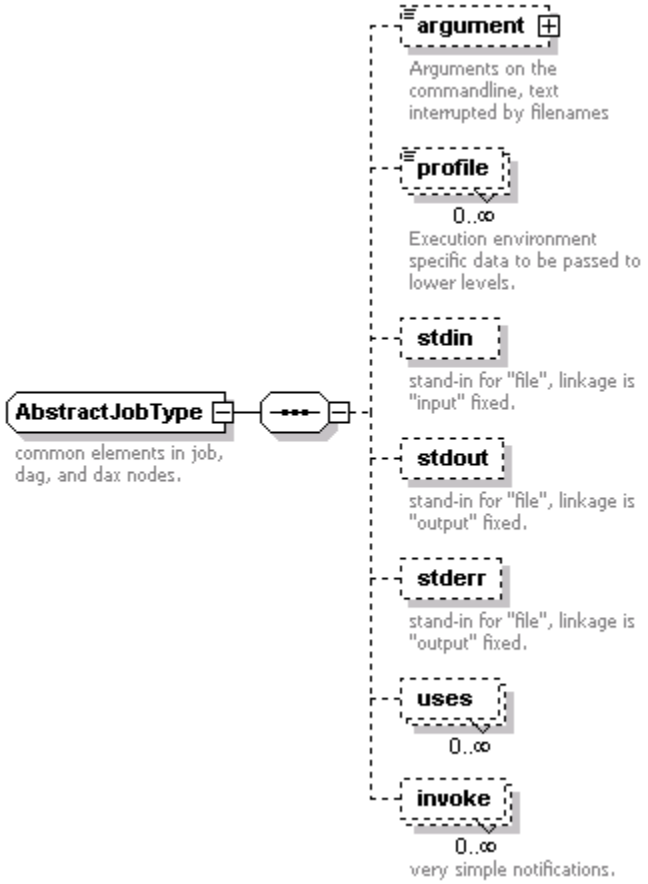
element **adag/child/parent**

diagram	**parent** parent node refering to a job.
namespace	http://pegasus.isi.edu/schema/DAX

attributes	Name	Type	Use	Default	Fixed
	ref	NodeIdentifierPattern	required		
	edge-label	xs:string	optional		

complexType **AbstractJobType**

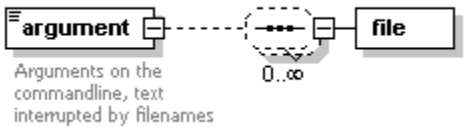
diagram



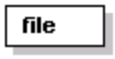
namespace	http://pegasus.isi.edu/schema/DAX
children	**argument profile stdin stdout stderr uses invoke**
used by	elements **adag/dag adag/dax adag/job**

attributes	Name	Type	Use	Default	Fixed
	id	NodeIdentifierPattern	required		
	node-label	xs:string	optional		

element **AbstractJobType/argument**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
children	**file**

element **AbstractJobType/argument/file**

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

element **AbstractJobType/profile**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	**ProfileType**
attributes	Name Type Use Default Fixed key xs:string required namespace ProfileNamespace required

element **AbstractJobType/stdin**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **PlainFilenameType**
attributes	Name Type Use Default Fixed name xs:string required link LinkageType optional input

element **AbstractJobType/stdout**

diagram	**stdout** stand-in for "file", linkage is "output" fixed.
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **PlainFilenameType**
attributes	Name / Type / Use / Default / Fixed name / xs:string / required link / LinkageType / optional / / output

element **AbstractJobType/stderr**

diagram	**stderr** stand-in for "file", linkage is "output" fixed.
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **PlainFilenameType**
attributes	Name / Type / Use / Default / Fixed name / xs:string / required link / LinkageType / optional / / output

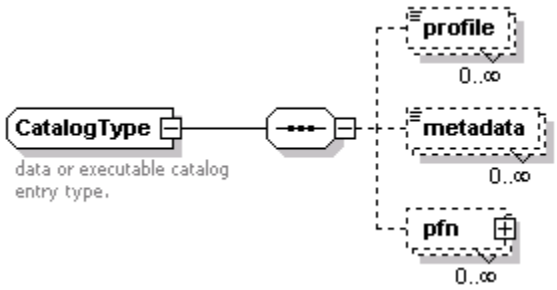
element **AbstractJobType/uses**

diagram	**uses**
namespace	http://pegasus.isi.edu/schema/DAX
type	**JobUsesType**
attributes	Name / Type / Use / Default / Fixed name / xs:string / required link / LinkageType / optional optional / xs:boolean / optional / false register / xs:boolean / optional / true transfer / TransferType / optional / true namespace / xs:string / optional version / VersionPattern / optional exectuable / xs:boolean / optional / false

element **AbstractJobType/invoke**

diagram	**invoke** very simple notifications.
namespace	http://pegasus.isi.edu/schema/DAX
type	**InvokeType**
attributes	Name / Type / Use / Default / Fixed when / xs:NMTOKEN / required

complexType **CatalogType**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
children	**profile** **metadata** **pfn**
used by	elements **adag/executable** **adag/file**

attributes

Name	Type	Use	Default	Fixed
name	xs:NMTOKEN	required		

element **CatalogType/profile**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	**ProfileType**

attributes

Name	Type	Use	Default	Fixed
key	xs:string	required		
namespace	ProfileNamespace	required		

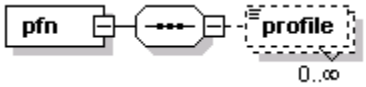
element **CatalogType/metadata**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **xs:string**

attributes

Name	Type	Use	Default	Fixed
key	xs:NMTOKEN	required		
type	xs:NMTOKEN	required		

element **CatalogType/pfn**

diagram	
namespace	http://pegasus.isi.edu/schema/DAX
children	**profile**

attributes	Name	Type	Use	Default	Fixed
	url	xs:anyURI	required		
	site	xs:string	optional	local	

element **CatalogType/pfn/profile**

diagram	**profile**				
namespace	http://pegasus.isi.edu/schema/DAX				
type	**ProfileType**				
attributes	Name	Type	Use	Default	Fixed
	key	xs:string	required		
	namespace	ProfileNamespace	required		

complexType **FilenameType**

diagram	**FilenameType** logical filename representation. Add "executable" attribute yourself.				
namespace	http://pegasus.isi.edu/schema/DAX				
type	extension of **PlainFilenameType**				
used by	complexType **JobUsesType**				
attributes	Name	Type	Use	Default	Fixed
	name	xs:string	required		
	link	LinkageType	optional		
	optional	xs:boolean	optional	false	
	register	xs:boolean	optional	true	
	transfer	TransferType	optional	true	

complexType **InvokeType**

diagram	**InvokeType** defines notifications. Notifications are currently NOT SUPPORTED.				
namespace	http://pegasus.isi.edu/schema/DAX				
used by	element **AbstractJobType/invoke**				
attributes	Name	Type	Use	Default	Fixed
	when	xs:NMTOKEN	required		

complexType **JobUsesType**

diagram	**JobUsesType** type for job-like uses elements that refers either to data or to executables.
namespace	http://pegasus.isi.edu/schema/DAX
type	extension of **FilenameType**
used by	element **AbstractJobType/uses**
attributes	

Name	Type	Use	Default	Fixed
name	xs:string	required		
link	LinkageType	optional		
optional	xs:boolean	optional	false	
register	xs:boolean	optional	true	
transfer	TransferType	optional	true	
namespace	xs:string	optional		
version	VersionPattern	optional		
exectuable	xs:boolean	optional	false	

complexType **PlainFilenameType**

diagram	**PlainFilenameType** defines just a filename.
namespace	http://pegasus.isi.edu/schema/DAX
used by	elements **AbstractJobType/argument/file** **AbstractJobType/stderr** **AbstractJobType/stdin** **AbstractJobType/stdout** complexTypes **FilenameType** **TransformationUsesType**
attributes	

Name	Type	Use	Default	Fixed
name	xs:string	required		

complexType **ProfileType**

diagram	**ProfileType** type of the ubiquitous profile element.
namespace	http://pegasus.isi.edu/schema/DAX
used by	elements **AbstractJobType/profile** **CatalogType/profile** **CatalogType/pfn/profile**
attributes	

Name	Type	Use	Default	Fixed
key	xs:string	required		
namespace	ProfileNamespace	required		

complexType **TransformationUsesType**

diagram	**TransformationUsesType** type for transformation uses elements that refers either to data or to executables.
namespace	http://pegasus.isi.edu/schema/DAX

type	extension of **PlainFilenameType**
used by	element **adag/transformation/uses**
attributes	Name / Type / Use / Default / Fixed name / xs:string / required namespace / xs:string / optional version / VersionPattern / optional exectuable / xs:boolean / optional / true

simpleType **ArchitectureType**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKENS**
used by	attribute **SystemInformationGroup/@arch**
facets	enumeration x86 enumeration x86_64 enumeration ppc enumeration ppc_64 enumeration ia64 enumeration sparcv7 enumeration sparcv9 enumeration amd64

simpleType **FilenameSafePattern**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKEN**
used by	attributes **adag/dag/@file** **adag/dax/@file** **adag/@name**
facets	pattern [-.0-9a-zA-Z]+

simpleType **FileType**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKEN**
facets	enumeration file enumeration executable enumeration pattern

simpleType **LinkageType**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKEN**
used by	attributes **FilenameType/@link** **AbstractJobType/stdin/@link** **AbstractJobType/stdout/@link** **AbstractJobType/stderr/@link**
facets	enumeration none enumeration input enumeration output enumeration inout

simpleType **NodeIdentifierPattern**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKEN**
used by	attributes **AbstractJobType/@id** **adag/child/parent/@ref** **adag/child/@ref**
facets	pattern [-0-9a-zA-Z_]+

simpleType **OSType**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKENS**
used by	attribute **SystemInformationGroup/@os**
facets	enumeration aix enumeration sunos enumeration linux enumeration darwin enumeration windows

simpleType **ProfileNamespace**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:NMTOKEN**
used by	attribute **ProfileType/@namespace**
facets	enumeration pegasus enumeration condor enumeration dagman enumeration env enumeration hints enumeration globus enumeration selector enumeration stat

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

simpleType **VersionPattern**

namespace	http://pegasus.isi.edu/schema/DAX
type	restriction of **xs:string**

used by	attributes **SystemInformationGroup/@glibc** **SystemInformationGroup/@osversion** **adag/executable/@version** **adag/transformation/@version** **adag/job/@version** **adag/@version** **JobUsesType/@version** **TransformationUsesType/@version**
facets	pattern [0-9]+(\.[0-9]+(\.[0-9]+)?)?

attributeGroup **SystemInformationGroup**

namespace	http://pegasus.isi.edu/schema/DAX
used by	element **adag/executable**

attributes

Name	Type	Use	Default	Fixed
arch	ArchitectureType	optional	x86	
os	OSType	optional	linux	
osrelease	xs:string	optional		
osversion	VersionPattern	optional		
glibc	VersionPattern	optional		

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