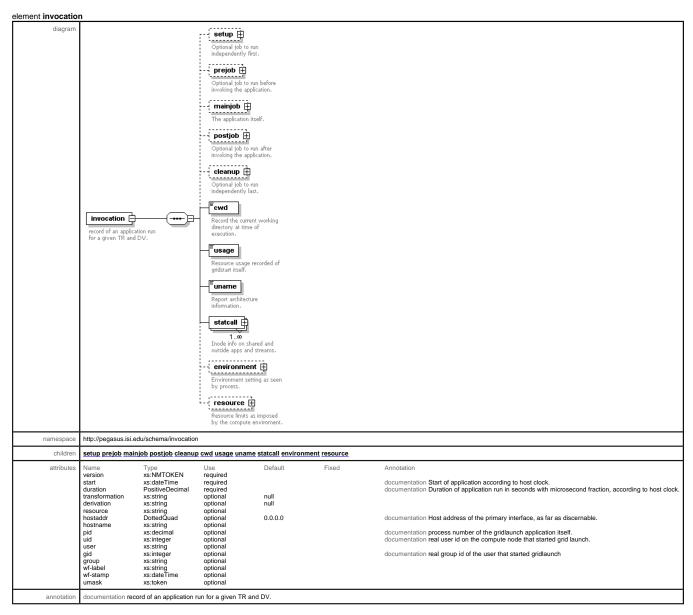
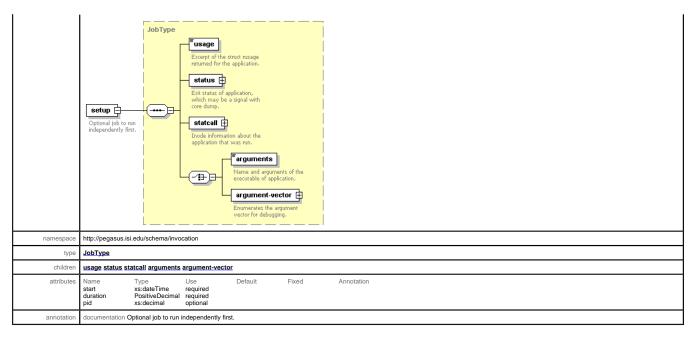
Schema iv-2.0.xsd

schema location: G:\GRIPHYN\PEGASUS\iv-2.0.xsd targetNamespace: http://pegasus.isi.edu/schema/invocation

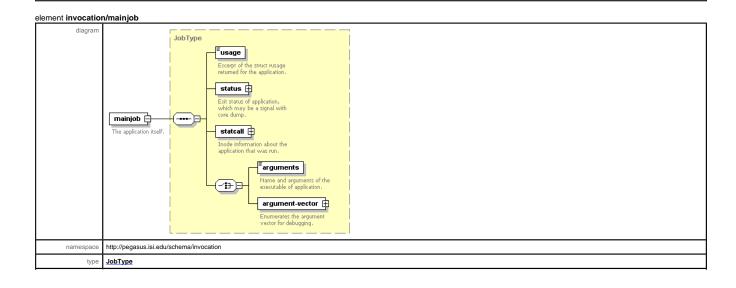
Elements Complex types Simple types invocation JobType RUsageType StatCallType ResourceValue



element invocatio	element invocation/setup							
diagram								

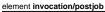


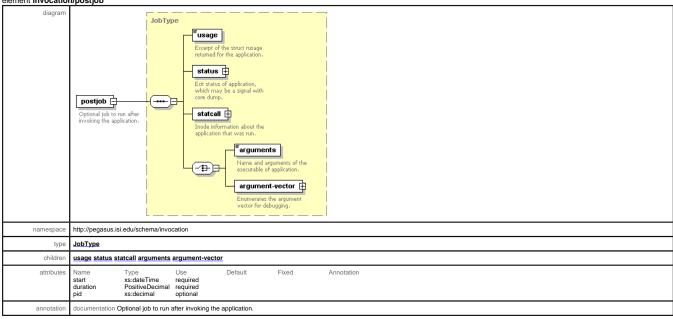
element invocation/prejob diagran JobType usage status 🖽 prejob 🖨 Optional job to run before invoking the application. statcall 🖽 arguments **~₽₽** argument-vector 🖶 namespace http://pegasus.isi.edu/schema/invocation JobType children usage status statcall arguments argument-vector Type Use required PositiveDecimal required optional attributes Default Fixed Annotation



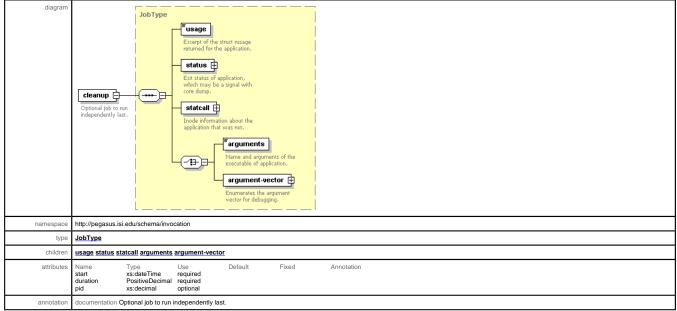
documentation Optional job to run before invoking the application.

children	usage status statcall arguments	argument-vecto	<u>or</u>				
	start xs:dateTime duration PositiveDecimal	Use required required optional	Default	Fixed	Annotation		
annotation	documentation The application itse	lf.					





element invocation/cleanup



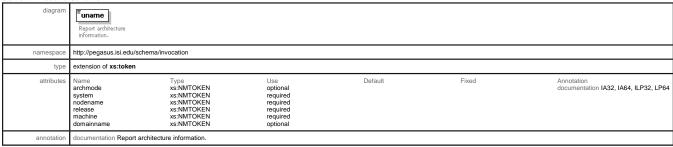
element invocation/cwd

diagram	Record the current working directory at time of execution.					
namespace	http://pegasus.isi.edu/schema/invocation					
type	restriction of xs:string					
facets	maxLength 4096 whiteSpace preserve					
annotation	documentation Record the current working directory at time of execution.					

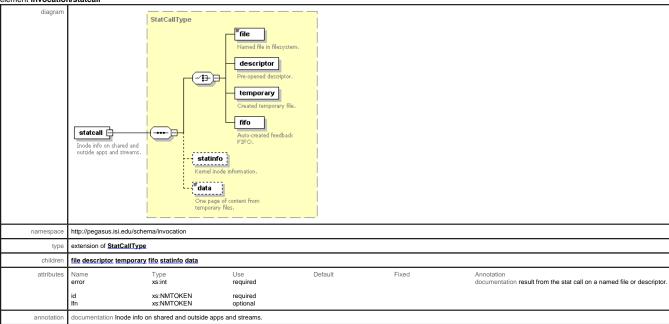
element invocation/usage

	Resource usage recorded of gridstart itself.							
namespace	http://pegasus.isi.edu/schema/invocation							
type	RUsageType							
attributes	Name Type Use Default Fixed Annotation six-decimal required system funding the system string for the system string for the system system funding the system system funding the system system system system system funding the system sys							
annotation	documentation Resource usage recorded of gridstart itself.							

element invocation/uname



element invocation/statcall



element invocation/environment

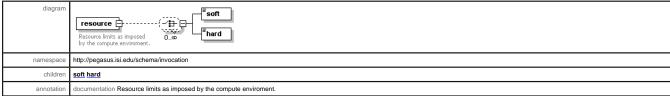
diagram	Environment setting as seen 0,.co single environment by process.
namespace	http://pegasus.isi.edu/schema/invocation
children	env
annotation	documentation Environment setting as seen by process.

element invocation/environment/env

diagram	single environment key-value pair.
namespace	http://pegasus.isi.edu/schema/invocation

type	extension of	xs:string				
attributes	Name Ty key xs	/pe s:string	Use required	Default	Fixed	Annotation
annotation	documentation	n single	environme	nt key-valu	e pair.	

element invocation/resource



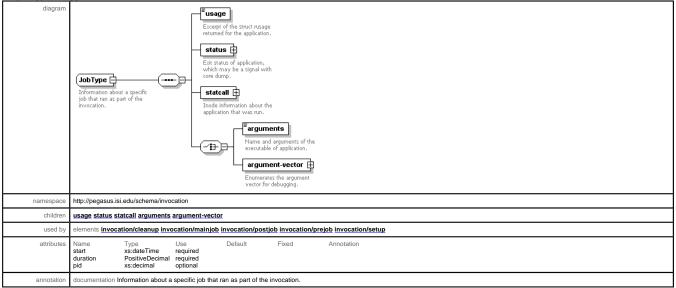
element invocation/resource/soft

	7								
diagram	■ soft								
namespace	p://pegasus.isi.edu/schema/invocation								
type	extension of ResourceValue								
facets	pattern (unlimited \d+)								
attributes	Name Type Use Default Fixed Annotation id xs:NMTOKEN required								

element invocation/resource/hard

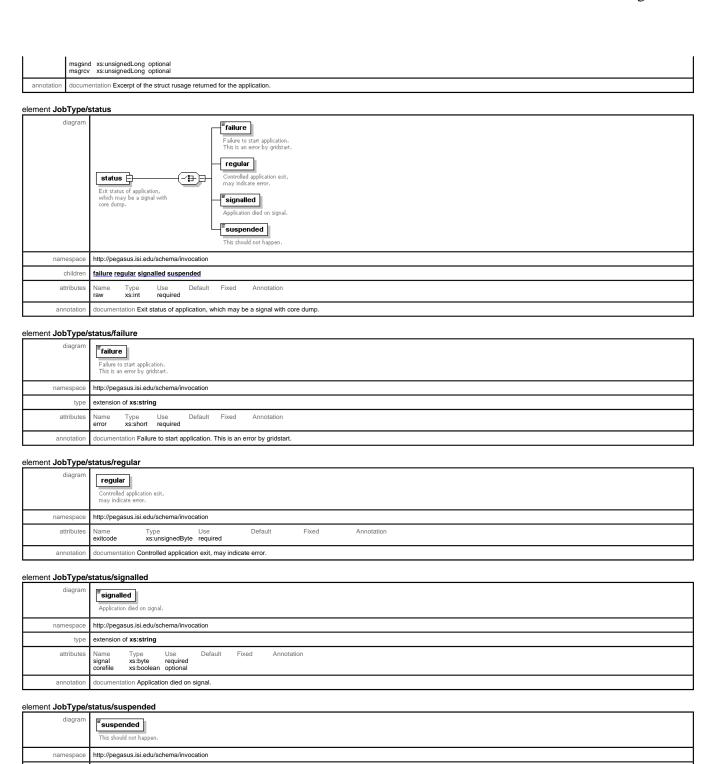


complexType JobType



element JobType/usage

diagram	Except of the struct rusage returned for the application.
namespace	http://pegasus.isi.edu/schema/invocation
type	RUsageType
attributes	Name type Use Default Fixed Annotation Octal amount of user time used, in seconds with millisecond fraction. documentation Total amount of user time used, in seconds with millisecond fraction. documentation Total amount of system time used, in seconds with millisecond fraction. documentation Total amount of system time used, in seconds with millisecond fraction. documentation Number of soft page faults (i.e. those serviced by reclaiming a page from the list of pages awaiting reallocation. documentation Number of soft page faults (i.e. those serviced by reclaiming a page from the list of pages awaiting reallocation. documentation Number of times a process was swapped out of physical memory. documentation Number of signals delivered. documentation Number of signals delivered. documentation Number of voluntary context switches, i.e. because the process gave up the process before it had to (usually to wait for some resource to be available). documentation Number of involuntary context switches, i.e. a higher priority process became runnable or the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice. documentation Number of involuntary context switches, i.e. a higher priority process became runnable or the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice. sz. unsigned.ong optional included to the current process used up its time slice.

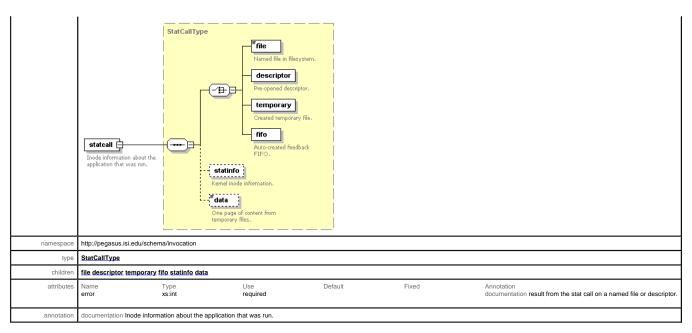


Annotation

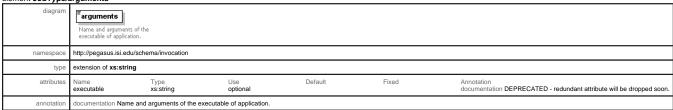
attributes

Name Type Use signal xs:byte required

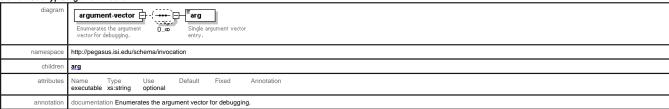
documentation This should not happen.



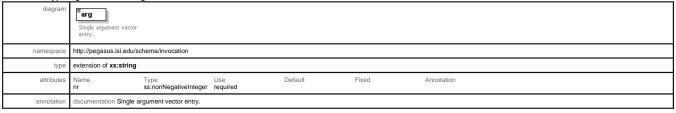
element JobType/arguments



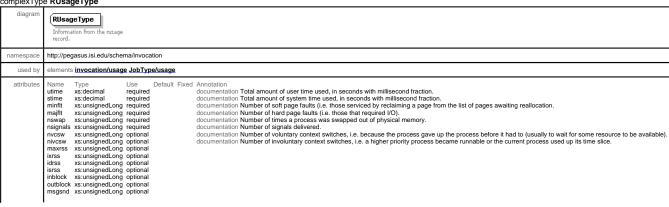
element JobType/argument-vector



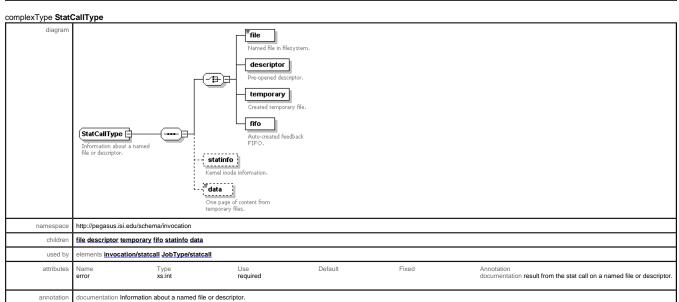
element JobType/argument-vector/arg



complexType RUsageType



		msgrcv xs:unsignedLong optional
ſ	annotation	documentation Information from the rusage record.



element StatCallType/file

olomoni otaroani	
diagram	Named file in filesystem.
namespace	http://pegasus.isi.edu/schema/invocation
type	extension of xs:hexBinary
attributes	Name Type Use Default Fixed Annotation documentation A named file may be a regular file like a shell script or executable, or it may be a device file like /dev/null. Only regular files may incur element content.
annotation	documentation Named file in filesystem.

element StatCallType/descriptor

diagram	descriptor Pre-opened descriptor							
namespace	http://pegasus.isi.edu/schema/invocation							
attributes	Name number	Type xs:nonNegativeInteger	Use required	Default	Fixed	Annotation		
annotation	documentation Pre-opened descriptor.							

element StatCallType/temporary

diagram	temporary Created temporary file.
namespace	http://pegasus.isi.edu/schema/invocation
	Name Type Use Default Fixed Annotation name xs:string required descriptor xs:integer required
annotation	documentation Created temporary file.

element StatCallType/fifo

diagram	Auto-created feedback						
namespace	http://pegasus.isi.edu/s	http://pegasus.isi.edu/schema/invocation					
attributes	Name name descriptor count rsize wsize	Type xs:string xs:integer xs:nonNegativeInteger xs:nonNegativeInteger xs:nonNegativeInteger	optional	Default 0 0 0	Fixed	Annotation	
annotation	documentation Auto-cr	eated feedback FIFO.					

element StatCallType/statinfo

diagram	statinfo Kernel inode infor	mation.					
namespace	http://pegasus.isi.	edu/schema/invocation					
attributes	Name	Туре	Use	Default	Fixed	Annotation	

	size mode inode inode plink blocks blksize atime mtime ctime uid user gid group	xs:integer xs:token xs:integer xs:nonNegativeInteger xs:nonNegativeInteger xs:dateTime xs:dateTime xs:dateTime xs:dateTime xs:disteTime xs:sinteger xs:string xs:string xs:string xs:integer	required optional	documentation file protection in octal number with leading zero.		
annotation	documentation Kernel inode information.					

element StatCallType/data

diagram	One page of conte temporary files.	ent from				
namespace	http://pegasus.isi.e	edu/schema/invocation				
type	extension of xs:string					
attributes	Name truncated	Type xs:boolean	Use optional	Default	Fixed	Annotation documentation This flag will be true, if there is more information than included in the data tag.
annotation	documentation One page of content from temporary files.					

simpleType DottedQuad

namespace	http://pegasus.isi.edu/schema/invocation			
type	restriction of xs:string			
used by	attribute invocation/@hostaddr			
	minLength 7 maxLength 15 whiteSpace collapse pattern (hd{1,3}\)(3)\(\daggregap (1,3)\)			
annotation	documentation dotted quad notation of a IPv4 host address.			

simpleType PositiveDecimal

namespace http://pegasus.isi.edu/schema/invocation						
type	restriction of xs:decimal					
used by	attributes invocation/@duration JobType/@duration					
facets	minInclusive 0					
annotation	documentation restricted version of the 'decimal' type.					

simpleType ResourceValue

	p.oypoooo	o raido						
	namespace	http://pegasus.isi.edu/schema/invocation						
	type	restriction of xs:string						
used by elements invocation/resource/hard invocation/resource/soft facets pattern (unlimited \d+)		elements invocation/resource/hard invocation/resource/soft						
		pattern (unlimited\ld+)						
ſ	annotation	documentation value for a resource usage						

XML Schema documentation generated with XMLSPY Schema Editor http://www.altova.com/xmlspy