

Schema documentation for fre.xsd

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Resource hierarchy:

Legend:  Import,  Include,  Redefine,  Cycle detected

fre.xsd

  xi.xsd

 fre.xsd

  xml.xsd

Schema(s)

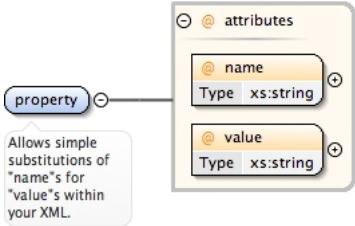
Namespace	No namespace
Properties	attribute form default: <code>unqualified</code>
	element form default: <code>qualified</code>

Element experimentSuite

4

	<pre> <setup>{1,1}</setup> <user email="" login="" name="">{1,1}</user> <institution address="" name="" url="">{1,1}</institution> <experiment inherit="" name="">{1,unbounded}</experiment> </experimentSuite> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			optional
	rtsVersion	RtsVersion			required
Source	<pre> <xs:element name="experimentSuite"> <xs:annotation> <xs:documentation>The "experimentSuite" tag is the root element and should contain the "setup" tag as well as all of your experiments. The name attribute is not required and the rtsVersion specifies the version of the schema.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:choice maxOccurs="unbounded"> <xs:element ref="xi:include"/> <xs:element ref="property"/> <xs:element ref="setup"/> <xs:element ref="user"/> <xs:element ref="institution"/> </xs:choice> <xs:element maxOccurs="unbounded" ref="experiment"/> </xs:sequence> <xs:attribute name="name" type="xs:string"/> <xs:attribute name="rtsVersion" use="required" type="RtsVersion"/> </xs:complexType> <xs:unique name="unique_experiment"> <xs:selector xpath="experiment"/> <xs:field xpath="@name"/> </xs:unique> </xs:element> </pre>				

Element property

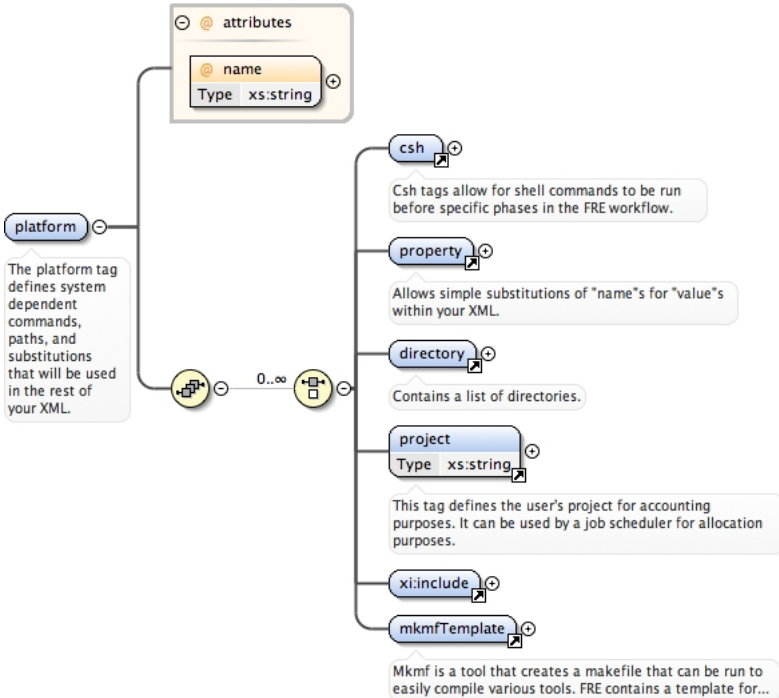
Namespace	No namespace				
Annotations	Allows simple substitutions of "name"s for "value"s within your XML.				
Diagram					
Properties	content:	complex			
Used by	Elements	experimentSuite, platform			
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
	value	xs:string			required
Source	<pre> <xs:element name="property"> <xs:annotation> <xs:documentation>Allows simple substitutions of "name"s for "value"s within your XML.</ </xs:annotation> <xs:complexType> <xs:attribute name="name" use="required" type="xs:string"/> <xs:attribute name="value" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element setup

Namespace	No namespace
Annotations	The setup tag contains the system dependent platform tags.

Diagram		
Properties	content:	complex
Used by	Element	experimentSuite
Model	platform+	
Children	platform	
Instance	<pre><setup> <platform name="">{1,unbounded}</platform> </setup></pre>	
Source	<pre><xs:element name="setup"> <xs:annotation> <xs:documentation>The setup tag contains the system dependent platform tags.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element maxOccurs="unbounded" ref="platform" /> </xs:sequence> </xs:complexType> </xs:element></pre>	

Element platform

Namespace	No namespace	
Annotations	The platform tag defines system dependent commands, paths, and substitutions that will be used in the rest of your XML.	
Diagram		
Properties	content:	complex
Used by	Element	setup
Model	(csh property directory project xi:include mkmfTemplate)	
Children	csh, directory, mkmfTemplate, project, property, xi:include	
Instance	<pre><platform name="" xmlns:xi="http://www.w3.org/2001/XInclude"> <csh type="">{1,1}</csh> <property name="" value="">{1,1}</property> <directory stem="">{1,1}</directory> <project>{1,1}</project></pre>	

	<pre> <xi:include href="" xpointer="">{1,1}</xi:include> <mkmfTemplate file="">{1,1}</mkmfTemplate> </platform> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
Source	<pre> <xs:element name="platform"> <xs:annotation> <xs:documentation>The platform tag defines system dependent commands, paths, and substitutions that will be used in the rest of your XML.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="csh"/> <xs:element ref="property"/> <xs:element ref="directory"/> <xs:element ref="project"/> <xs:element ref="xi:include"/> <xs:element ref="mkmfTemplate"/> </xs:choice> </xs:sequence> <xs:attribute name="name" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

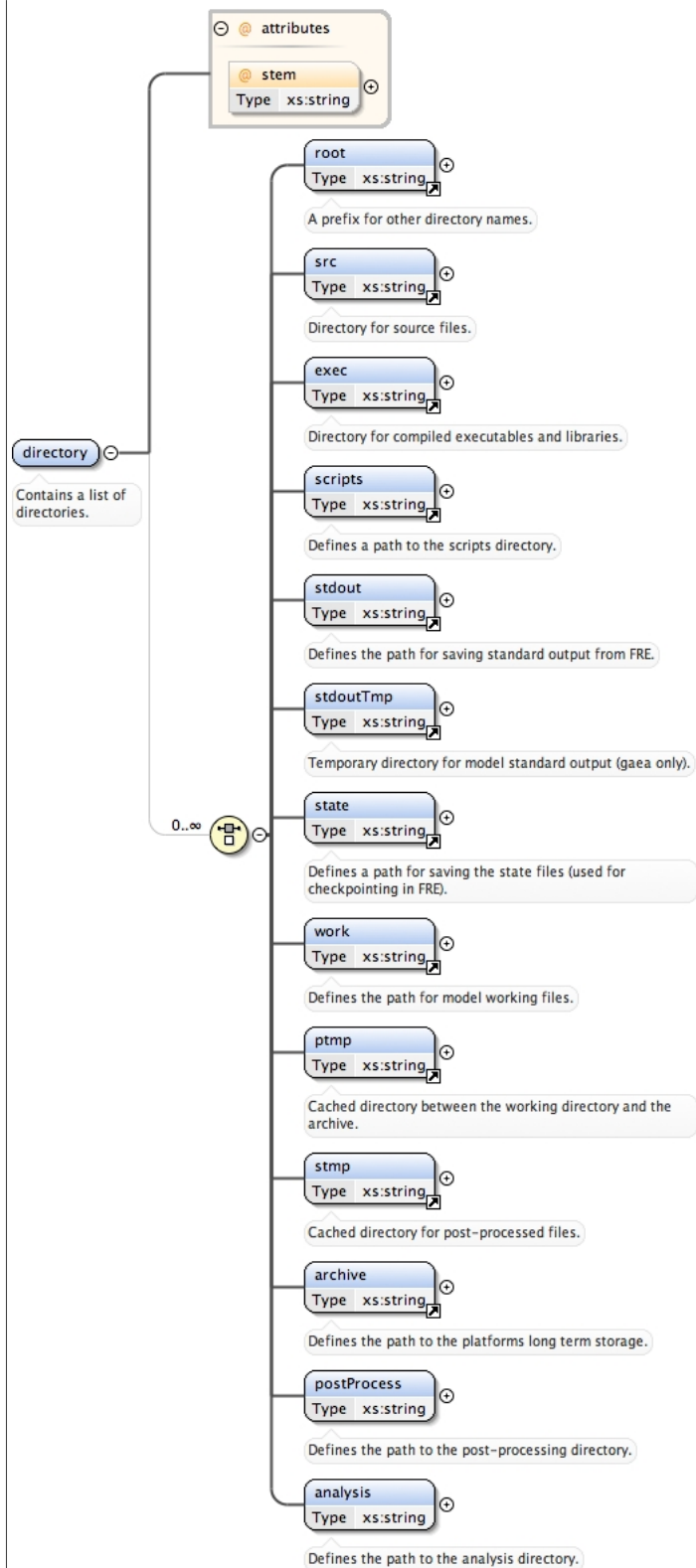
Element csh

Namespace	No namespace				
Annotations	Csh tags allow for shell commands to be run before specific phases in the FRE workflow.				
Diagram					
Properties	content:	complex			
	mixed:	true			
Used by	Elements	compile, input, platform, postProcess, runtime, source			
Model					
Attributes	QName	Type	Fixed	Default	Use
	type	xs:string			optional
Source	<pre><xs:element name="csh"> <xs:annotation> <xs:documentation>Csh tags allow for shell commands to be run before specific phases in the FRE workflow.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="type" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element directory

Namespace	No namespace				
Annotations	Contains a list of directories.				

Diagram



Properties	content: complex
Used by	Element platform
Model	root src exec scripts stdout stdoutTmp state work ptmp stmp archive postProcess analysis
Children	analysis, archive, exec, postProcess, ptmp, root, scripts, src, state, stdout, stdoutTmp, stmp, work
Instance	<pre><directory stem=""> <root>{1,1}</root> <src>{1,1}</src></pre>

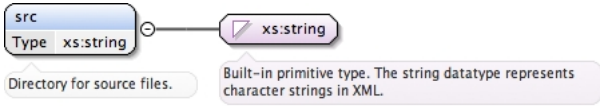
	<pre> <exec>{1,1}</exec> <scripts>{1,1}</scripts> <stdout>{1,1}</stdout> <stdoutTmp>{1,1}</stdoutTmp> <state>{1,1}</state> <work>{1,1}</work> <ptmp>{1,1}</ptmp> <stmp>{1,1}</stmp> <archive>{1,1}</archive> <postProcess>{1,1}</postProcess> <analysis>{1,1}</analysis> </directory> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	stem	xs:string			optional
Source	<pre> <xs:element name="directory"> <xs:annotation> <xs:documentation>Contains a list of directories.</xs:documentation> </xs:annotation> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="root"/> <xs:element ref="src"/> <xs:element ref="exec"/> <xs:element ref="scripts"/> <xs:element ref="stdout"/> <xs:element ref="stdoutTmp"/> <xs:element ref="state"/> <xs:element ref="work"/> <xs:element ref="ptmp"/> <xs:element ref="stmp"/> <xs:element ref="archive"/> <xs:element name="postProcess" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path to the post-processing directory.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="analysis" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path to the analysis directory.</xs:documentation> </xs:annotation> </xs:element> </xs:choice> <xs:attribute name="stem" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element root

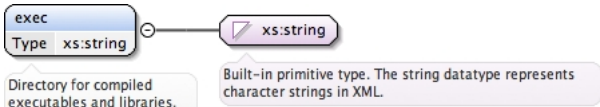
Namespace	No namespace		
Annotations	A prefix for other directory names.		
Diagram			
Type	xs:string		
Properties	content:	simple	
Used by	Element	directory	
Source	<pre><xs:element name="root" type="xs:string"> <xs:annotation> <xs:documentation>A prefix for other directory names.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element src

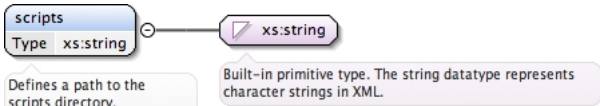
Namespace	No namespace				
Annotations	Directory for source files.				

Diagram	
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="src" type="xs:string"> <xs:annotation> <xs:documentation>Directory for source files.</xs:documentation> </xs:annotation> </xs:element></pre>

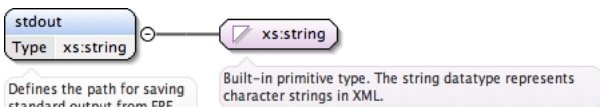
Element exec

Namespace	No namespace
Annotations	Directory for compiled executables and libraries.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="exec" type="xs:string"> <xs:annotation> <xs:documentation>Directory for compiled executables and libraries.</xs:documentation> </xs:annotation> </xs:element></pre>

Element scripts

Namespace	No namespace
Annotations	Defines a path to the scripts directory.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="scripts" type="xs:string"> <xs:annotation> <xs:documentation>Defines a path to the scripts directory.</xs:documentation> </xs:annotation> </xs:element></pre>

Element stdout

Namespace	No namespace
Annotations	Defines the path for saving standard output from FRE.
Diagram	
Type	xs:string
Properties	content: simple

Used by	Element directory
Source	<pre><xs:element name="stdout" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path for saving standard output from FRE.</xs:documentation> </xs:annotation> </xs:element></pre>

Element stdoutTmp

Namespace	No namespace
Annotations	Temporary directory for model standard output (gaea only).
Diagram	<p>Diagram showing the element stdoutTmp with type xs:string. A callout box explains: "Temporary directory for model standard output (gaea only)." Another callout box for xs:string states: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="stdoutTmp" type="xs:string"> <xs:annotation> <xs:documentation>Temporary directory for model standard output (gaea only).</xs:documentation> </xs:annotation> </xs:element></pre>

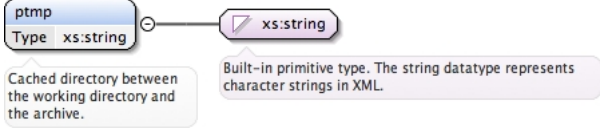
Element state

Namespace	No namespace
Annotations	Defines a path for saving the state files (used for checkpointing in FRE).
Diagram	<p>Diagram showing the element state with type xs:string. A callout box explains: "Defines a path for saving the state files (used for checkpointing in FRE)." Another callout box for xs:string states: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="state" type="xs:string"> <xs:annotation> <xs:documentation>Defines a path for saving the state files (used for checkpointing in FRE).</xs:documentation> </xs:annotation> </xs:element></pre>

Element work

Namespace	No namespace
Annotations	Defines the path for model working files.
Diagram	<p>Diagram showing the element work with type xs:string. A callout box explains: "Defines the path for model working files." Another callout box for xs:string states: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="work" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path for model working files.</xs:documentation> </xs:annotation> </xs:element></pre>

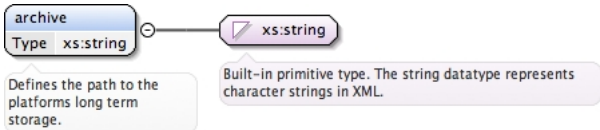
Element ptmp

Namespace	No namespace
Annotations	Cached directory between the working directory and the archive.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="ptmp" type="xs:string"> <xs:annotation> <xs:documentation>Cached directory between the working directory and the archive.</xs:documentation> </xs:annotation> </xs:element></pre>

Element stmp

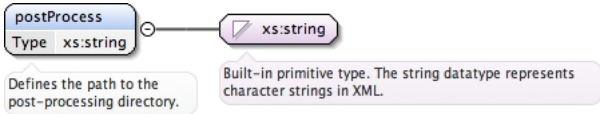
Namespace	No namespace
Annotations	Cached directory for post-processed files.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="stmp" type="xs:string"> <xs:annotation> <xs:documentation>Cached directory for post-processed files.</xs:documentation> </xs:annotation> </xs:element></pre>

Element archive

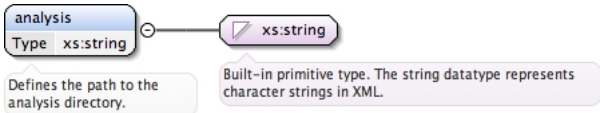
Namespace	No namespace
Annotations	Defines the path to the platforms long term storage.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<pre><xs:element name="archive" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path to the platforms long term storage.</xs:documentation> </xs:annotation> </xs:element></pre>

Element directory / postProcess

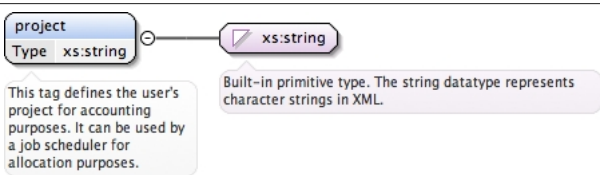
Namespace	No namespace
Annotations	Defines the path to the post-processing directory.

Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="postProcess" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path to the post-processing directory.</xs:documentation> </xs:annotation> </xs:element></pre>

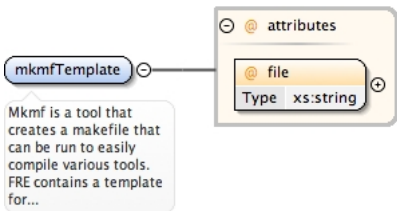
Element directory / analysis

Namespace	No namespace
Annotations	Defines the path to the analysis directory.
Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="analysis" type="xs:string"> <xs:annotation> <xs:documentation>Defines the path to the analysis directory.</xs:documentation> </xs:annotation> </xs:element></pre>

Element project

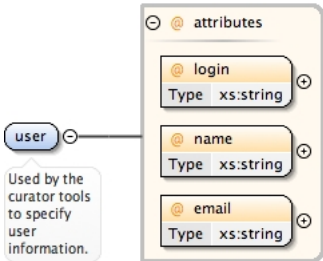
Namespace	No namespace
Annotations	This tag defines the user's project for accounting purposes. It can be used by a job scheduler for allocation purposes.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element platform
Source	<pre><xs:element name="project" type="xs:string"> <xs:annotation> <xs:documentation>This tag defines the user's project for accounting purposes. It can be used by a job scheduler for allocation purposes.</xs:documentation> </xs:annotation> </xs:element></pre>

Element mkmfTemplate

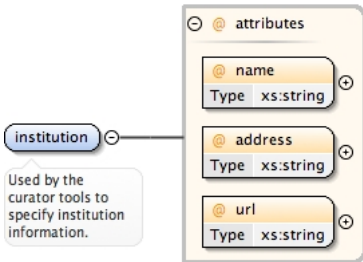
Namespace	No namespace
Annotations	Mkmf is a tool that creates a makefile that can be run to easily compile various tools. FRE contains a template for this utility, but the ability to override the template is provide in this tag.
Diagram	

Properties	content:	complex			
Used by	Element	platform			
Attributes	QName	Type	Fixed	Default	Use
	file	xs:string			required
Source	<pre> <xs:element name="mkmfTemplate"> <xs:annotation> <xs:documentation>Mkmf is a tool that creates a makefile that can be run to easily compile various tools. FRE contains a template for this utility, but the ability to override the template is provide in this tag.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="file" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element user

Namespace	No namespace				
Annotations	Used by the curator tools to specify user information.				
Diagram					
Properties	content:	complex			
Used by	Element	experimentSuite			
Attributes	QName	Type	Fixed	Default	Use
	email	xs:string			required
	login	xs:string			required
	name	xs:string			required
Source	<pre> <xs:element name="user"> <xs:annotation> <xs:documentation>Used by the curator tools to specify user information.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="login" use="required" type="xs:string"/> <xs:attribute name="name" use="required" type="xs:string"/> <xs:attribute name="email" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element institution

Namespace	No namespace				
Annotations	Used by the curator tools to specify institution information.				
Diagram					
Properties	content:	complex			
Used by	Element	experimentSuite			

Attributes	QName	Type	Fixed	Default	Use
	address	xs:string			required
	name	xs:string			required
	url	xs:string			required
Source	<pre> <xs:element name="institution"> <xs:annotation> <xs:documentation>Used by the curator tools to specify institution information.</ </xs:annotation> <xs:complexType> <xs:attribute name="name" use="required" type="xs:string"/> <xs:attribute name="address" use="required" type="xs:string"/> <xs:attribute name="url" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element experiment

Namespace	No namespace
Annotations	The experiment tag holds all of the details about an experiment, including: source code locations, compiler flags, components to process, and input file locations. Each experiment must be given a unique name.
Diagram	<pre> graph TD experiment((experiment)) --- attributes[attributes] experiment --- component[component] experiment --- description[description] experiment --- communityComment[communityComment] experiment --- executable[executable] experiment --- input[input] experiment --- postProcess[postProcess] experiment --- realization[realization] experiment --- runtime[runtime] experiment --- scenario[scenario] </pre> <p>experiment The experiment tag holds all of the details about an experiment, including: source code locations, compiler flags,...</p> <p>attributes inherit Type xs:string name Type xs:string </p> <p>component An experiments component defines the CVS paths through which the component may be acquired. The 'requires' attribute...</p> <p>description A description of the experiment.</p> <p>communityComment Type xs:string This tag is used by the fre-curator tools. It is a public comment about the experiment that will be visible in the...</p> <p>executable A pointer to the experiment executable file. This is not a required tag.</p> <p>input 0..∞ A container tag for all the input files for an experiment (notably, the namelist files and definitions).</p> <p>postProcess This tag holds all of the post processing settings. Inside of this tag, the components, time ranges, and variable...</p> <p>realization This tag is part of the fre-curator tools and is not required for the main part of FRE. What follows is the CMIPS...</p> <p>runtime The runtime tag holds production and regression run details.</p> <p>scenario This tag is only used by fre-curator and does not impact general usage of FRE. It defines: forcings used in the...</p>
Properties	content: complex

	mixed: true				
Used by	Element experimentSuite				
Model	component description communityComment executable input postProcess realization runtime scenario				
Children	communityComment, component, description, executable, input, postProcess, realization, runtime, scenario				
Instance	<pre> <experiment inherit=" " name=" "> <component includeDir=" " name=" " paths=" " requires=" ">{1,1}</component> <description communityExperimentID=" " communityExperimentName=" " communityModel=" " communityModelID=" " communityProject=" " > description </description> <communityComment>{1,1}</communityComment> <executable file=" ">{1,1}</executable> <input>{1,1}</input> <postProcess combine=" " npes=" ">{1,1}</postProcess> <realization i=" " p=" " r=" ">{1,1}</realization> <runtime>{1,1}</runtime> <scenario branch_time=" " communityForcing=" " endTime=" " parentExperimentID=" " parentExperimentRIP=" " startTime=" " > scenario </scenario> </experiment> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	inherit	xs:string			optional
	name	xs:string			required
Source	<pre> <xs:element name="experiment"> <xs:annotation> <xs:documentation>The experiment tag holds all of the details about an experiment, including: source code locations, compiler flags, components to process, and input file locations. Each experiment must be given a unique name.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element name="component"> <xs:annotation> <xs:documentation>An experiments component defines the CVS paths through which the component may be acquired. The 'requires' attribute lists dependencies for that component. The 'paths' attribute lists the directory that will be search after CVS checkout.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="description" minOccurs="0"> <xs:annotation> <xs:documentation>A description of the component.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="communityGrid" type="xs:string"/> <xs:attribute name="communityName" type="xs:string"/> <xs:attribute name="communityVersion" type="xs:string"/> <xs:attribute name="domainName" type="xs:string"/> </xs:complexType> </xs:element> <xs:element minOccurs="0" ref="source"/> <xs:element minOccurs="0" maxOccurs="unbounded" ref="compile"/> <xs:element minOccurs="0" ref="library"/> </xs:sequence> <xs:attribute name="includeDir" type="xs:string"/> <xs:attribute name="name" type="xs:string"/> <xs:attribute name="paths" type="xs:string"/> <xs:attribute name="requires" type="xs:string"/> </xs:complexType> </xs:element> <xs:element name="description"> <xs:annotation> <xs:documentation>A description of the experiment.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="communityExperimentID" type="xs:string"/> <xs:attribute name="communityExperimentName" type="xs:string"/> <xs:attribute name="communityModel" type="xs:string"/> <xs:attribute name="communityModelID" type="xs:string"/> <xs:attribute name="communityProject" type="xs:string"/> </xs:complexType> </xs:element> <xs:element ref="communityComment"/> <xs:element ref="executable"/> <xs:element ref="input"/> <xs:element ref="postProcess"/> <xs:element ref="realization"/> <xs:element ref="runtime"/> <xs:element ref="scenario"/> </xs:choice> </xs:complexType> </xs:element> </pre>				


```

</xs:choice>
<xs:attribute name="inherit" type="xs:string"/>
<xs:attribute name="name" use="required" type="xs:string"/>
</xs:complexType>
</xs:element>

```

Element experiment / component

Namespace	No namespace				
Annotations	An experiments component defines the CVS paths through which the component may be acquired. The 'requires' attribute lists dependencies for that component. The 'paths' attribute lists the directory that will be search after CVS checkout.				
Diagram					
Properties	content:	complex			
Model	description{0,1} , source{0,1} , compile* , library{0,1}				
Children	compile, description, library, source				
Instance	<pre><component includeDir="" name="" paths="" requires=""> <description communityGrid="" communityName="" communityVersion="" domainName="">{0,1}</description> <source versionControl="" versionControl="">{0,1}</source> <compile target="">{0,unbounded}</compile> <library headerDir="" path="">{0,1}</library> </component></pre>				
Attributes	QName	Type	Fixed	Default	Use
	includeDir	xs:string			optional
	name	xs:string			optional
	paths	xs:string			optional
	requires	xs:string			optional
Source	<pre><xs:element name="component"> <xs:annotation> <xs:documentation>An experiments component defines the CVS paths through which the component may be acquired. The 'requires' attribute lists dependencies for that component. The 'paths' attribute lists the directory that will be search after CVS checkout.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="description" minOccurs="0"> <xs:annotation> <xs:documentation>A description of the component.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="communityGrid" type="xs:string"/> </xs:complexType> </xs:element> <xs:element name="source" minOccurs="0"> <xs:annotation> <xs:documentation>Contains information about the location of the source files.</xs:documentation> </xs:annotation> <xs:complexType base="xs:string" mixed="true"> <xs:attribute name="versionControl" type="xs:string"/> </xs:complexType> </xs:element> <xs:element name="compile" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Contains the compiler options tag.</xs:documentation> </xs:annotation> <xs:complexType base="xs:string" mixed="true"> <xs:attribute name="target" type="xs:string"/> </xs:complexType> </xs:element> <xs:element name="library" minOccurs="0"> <xs:annotation> <xs:documentation>Defines library and header paths for the components.</xs:documentation> </xs:annotation> <xs:complexType base="xs:string" mixed="true"> <xs:attribute name="headerDir" type="xs:string"/> <xs:attribute name="path" type="xs:string"/> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>				

```

<xs:attribute name="communityName" type="xs:string"/>
<xs:attribute name="communityVersion" type="xs:string"/>
<xs:attribute name="domainName" type="xs:string"/>
</xs:complexType>
</xs:element>
<xs:element minOccurs="0" ref="source"/>
<xs:element minOccurs="0" maxOccurs="unbounded" ref="compile"/>
<xs:element minOccurs="0" ref="library"/>
</xs:sequence>
<xs:attribute name="includeDir" type="xs:string"/>
<xs:attribute name="name" type="xs:string"/>
<xs:attribute name="paths" type="xs:string"/>
<xs:attribute name="requires" type="xs:string"/>
</xs:complexType>
</xs:element>

```

Element experiment / component / description

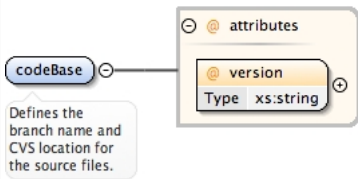
Namespace	No namespace				
Annotations	A description of the component.				
Diagram					
Properties	content:	complex			
	minOccurs:	0			
	mixed:	true			
Model					
Attributes	QName	Type	Fixed	Default	Use
	communityGrid	xs:string			optional
	communityName	xs:string			optional
	communityVersion	xs:string			optional
	domainName	xs:string			optional
Source	<pre><xs:element name="description" minOccurs="0"> <xs:annotation> <xs:documentation>A description of the component.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="communityGrid" type="xs:string"/> <xs:attribute name="communityName" type="xs:string"/> <xs:attribute name="communityVersion" type="xs:string"/> <xs:attribute name="domainName" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element source

Namespace	No namespace
Annotations	Contains information about the location of the source files.

Diagram					
Properties	content:	complex			
Used by	Element	experiment/component			
Model	codeBase , csh{0,1}				
Children	codeBase, csh				
Instance	<pre><source versionControl=" " versionControl=" "> <codeBase version="{1,1}"></codeBase> <csh type="{0,1}"></csh> </source></pre>				
Attributes	QName	Type	Fixed	Default	Use
	versionControl	xs:string			optional
	versionControl	xs:string			optional
Source	<pre><xs:element name="source"> <xs:annotation> <xs:documentation>Contains information about the location of the source files.</ xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="codeBase"/> <xs:element minOccurs="0" ref="csh"/> </xs:sequence> <xs:attribute name="versionControl" type="xs:string"/> <xs:attribute name="versionControl" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element codeBase

Namespace	No namespace				
Annotations	Defines the branch name and CVS location for the source files.				
Diagram					
Properties	content:	complex			
	mixed:	true			
Used by	Element	source			
Model					
Attributes	QName	Type	Fixed	Default	Use
	version	xs:string			required
Source	<pre><xs:element name="codeBase"> <xs:annotation> <xs:documentation>Defines the branch name and CVS location for the source files.</ xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element type="xs:string"/> </xs:sequence> </xs:complexType> </xs:element></pre>				

```

</xs:annotation>
<xs:complexType mixed="true">
  <xs:attribute name="version" use="required" type="xs:string"/>
</xs:complexType>
</xs:element>

```

Element compile

Namespace	No namespace				
Annotations	Contains the compiler options tag.				
Diagram					
Properties	content:	complex			
Used by	Element	experiment/component			
Model	cppDefs , (csh makeOverrides)				
Children	cppDefs, csh, makeOverrides				
Instance	<pre><compile target=""> <cppDefs>{1,1}</cppDefs> <csh type="">{1,1}</csh> <makeOverrides>{1,1}</makeOverrides> </compile></pre>				
Attributes	QName	Type	Fixed	Default	Use
	target	xs:string			optional
Source	<pre><xs:element name="compile"> <xs:annotation> <xs:documentation>Contains the compiler options tag.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="cppDefs"/> <xs:choice minOccurs="0"> <xs:element ref="csh"/> <xs:element ref="makeOverrides"/> </xs:choice> </xs:sequence> <xs:attribute name="target" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element cppDefs

Namespace	No namespace				
Annotations	Compiler options are specified in this tag.				
Diagram					
Type	xs:string				
Properties	content:	simple			

Used by	Element <code>compile</code>
Source	<pre><xs:element name="cppDefs" type="xs:string"> <xs:annotation> <xs:documentation>Compiler options are specified in this tag.</xs:documentation> </xs:annotation> </xs:element></pre>

Element `makeOverrides`

Namespace	No namespace
Annotations	Override compiler options.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element <code>compile</code>
Source	<pre><xs:element name="makeOverrides" type="xs:string"> <xs:annotation> <xs:documentation>Override compiler options.</xs:documentation> </xs:annotation> </xs:element></pre>

Element `library`

Namespace	No namespace																			
Annotations	Defines library and header paths for the components.																			
Diagram																				
Properties	content:	complex																		
Used by	Element	experiment/component																		
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr></thead><tbody><tr><td>headerDir</td><td>xs:string</td><td></td><td></td><td>required</td></tr><tr><td>path</td><td>xs:string</td><td></td><td></td><td>optional</td></tr></tbody></table>	QName	Type	Fixed	Default	Use	headerDir	xs:string			required	path	xs:string			optional				
QName	Type	Fixed	Default	Use																
headerDir	xs:string			required																
path	xs:string			optional																
Source	<pre><xs:element name="library"> <xs:annotation> <xs:documentation>Defines library and header paths for the components.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="headerDir" use="required" type="xs:string"/> <xs:attribute name="path" type="xs:string"/> </xs:complexType> </xs:element></pre>																			

Element `experiment / description`

Namespace	No namespace
Annotations	A description of the experiment.

Diagram																															
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>mixed:</td><td>true</td></tr></table>	content:	complex	mixed:	true																										
content:	complex																														
mixed:	true																														
Model																															
Attributes	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>communityExperimentID</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>communityExperimentName</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>communityModel</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>communityModelID</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>communityProject</td><td>xs:string</td><td></td><td></td><td>optional</td></tr></table>	QName	Type	Fixed	Default	Use	communityExperimentID	xs:string			optional	communityExperimentName	xs:string			optional	communityModel	xs:string			optional	communityModelID	xs:string			optional	communityProject	xs:string			optional
QName	Type	Fixed	Default	Use																											
communityExperimentID	xs:string			optional																											
communityExperimentName	xs:string			optional																											
communityModel	xs:string			optional																											
communityModelID	xs:string			optional																											
communityProject	xs:string			optional																											
Source	<pre><xs:element name="description"> <xs:annotation> <xs:documentation>A description of the experiment.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="communityExperimentID" type="xs:string"/> <xs:attribute name="communityExperimentName" type="xs:string"/> <xs:attribute name="communityModel" type="xs:string"/> <xs:attribute name="communityModelID" type="xs:string"/> <xs:attribute name="communityProject" type="xs:string"/> </xs:complexType> </xs:element></pre>																														

Element communityComment

Namespace	No namespace		
Annotations	This tag is used by the fre-curator tools. It is a public comment about the experiment that will be visible in the netcdf output files.		
Diagram	<p>The diagram illustrates the relationship between the <code>communityComment</code> element and the <code>xs:string</code> primitive type. On the left, a box labeled <code>communityComment</code> with <code>Type xs:string</code> below it is connected by a line to a box labeled <code>xs:string</code> with a small icon above it. A callout from the <code>communityComment</code> box states: "This tag is used by the fre-curator tools. It is a public comment about the experiment that will be visible in the...". A callout from the <code>xs:string</code> box states: "Built-in primitive type. The string datatype represents character strings in XML."</p>		
Type	xs:string		
Properties	content:	simple	
Used by	Element	experiment	
Source	<pre><xs:element name="communityComment" type="xs:string"> <xs:annotation> <xs:documentation>This tag is used by the fre-curator tools. It is a public comment about the experiment that will be visible in the netcdf output files.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element executable

Namespace	No namespace				
Annotations	A pointer to the experiment executable file. This is not a required tag.				

Diagram					
Properties	content:	complex			
Used by	Element	experiment			
Attributes	QName	Type	Fixed	Default	Use
	file	xs:string			required
Source	<pre> <xs:element name="executable"> <xs:annotation> <xs:documentation>A pointer to the experiment executable file. This is not a required tag.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="file" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element input

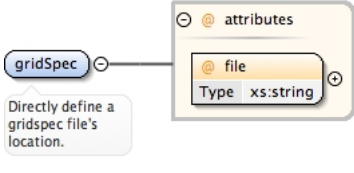
Namespace	No namespace	
Annotations	A container tag for all the input files for an experiment (notably, the namelist files and definitions).	
Diagram		
Properties	content:	complex
Used by	Element	experiment
Model	initCond gridSpec csh dataFile dataTable diagTable fieldTable namelist	
Children	csh, dataFile, dataTable, diagTable, fieldTable, gridSpec, initCond, namelist	
Instance	<pre><input> <initCond file="">{1,1}</initCond> <gridSpec file="">{1,1}</gridSpec></pre>	

	<pre> <csh type="">{1,1}</csh> <dataFile checksum="" label="" size="" target="" timestamp="">{1,1}</dataFile> <dataTable>{1,1}</dataTable> <diagTable file="">{1,1}</diagTable> <fieldTable>{1,1}</fieldTable> <namelist file="" name="">{1,1}</namelist> </input> </pre>
Source	<pre> <xs:element name="input"> <xs:annotation> <xs:documentation>A container tag for all the input files for an experiment (notably, the namelist files and definitions).</xs:documentation> </xs:annotation> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="initCond"/> <xs:element ref="gridSpec"/> <xs:element ref="csh"/> <xs:element ref="dataFile"/> <xs:element ref="dataTable"/> <xs:element ref="diagTable"/> <xs:element ref="fieldTable"/> <xs:element ref="namelist"/> </xs:choice> </xs:complexType> </xs:element> </pre>

Element initCond

Namespace	No namespace				
Annotations	Directly define an initial conditions file's location.				
Diagram					
Properties	content:	complex			
Used by	Element	input			
Attributes	QName	Type	Fixed	Default	Use
	file	xs:string			required
Source	<pre> <xs:element name="initCond"> <xs:annotation> <xs:documentation>Directly define an initial conditions file's location.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="file" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element gridSpec

Namespace	No namespace				
Annotations	Directly define a gridspec file's location.				
Diagram					
Properties	content:	complex			
Used by	Element	input			
Attributes	QName	Type	Fixed	Default	Use
	file	xs:string			required
Source	<pre> <xs:element name="gridSpec"> </pre>				


```

<xs:annotation>
  <xs:documentation>Directly define a gridspec file's location.</xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:attribute name="file" use="required" type="xs:string"/>
</xs:complexType>
</xs:element>

```

Element dataFile

Namespace	No namespace				
Annotations	Each input file that is needed for the model run must be defined in a dataFile tag. The file is given a label to define the type of file it is, a target that defines where the file will be transferred to, and file attributes that may be used by FRE in the future to ensure successful transfers (checksum, timestamp, and file size).				
Diagram	<p>Each input file that is needed for the model run must be defined in a dataFile tag. The file is given a label to define...</p> <p>A data source is the platform specific location for the file being described by the data file tag. If the simulation is...</p>				
Properties	content:	complex			
	mixed:	true			
Used by	Elements	input, runtime			
Model	dataSource*				
Children	dataSource				
Instance	<pre><dataFile checksum="" label="" size="" target="" timestamp=""> <dataSource platform="" site="">{0,unbounded}</dataSource> </dataFile></pre>				
Attributes	QName	Type	Fixed	Default	Use
	checksum	xs:string			optional
	label	xs:string			required
	size	xs:string			optional
	target	xs:string			optional
	timestamp	xs:string			optional
Source	<pre><xs:element name="dataFile"> <xs:annotation> <xs:documentation>Each input file that is needed for the model run must be defined in a dataFile tag. The file is given a label to define the type of file it is, a target that defines where the file will be transferred to, and file attributes that may be used by FRE in the future to ensure successful transfers (checksum, timestamp, and file size).</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:sequence> <xs:element minOccurs="0" maxOccurs="unbounded" ref="dataSource"/> </xs:sequence> <xs:attribute name="checksum" type="xs:string"/> <xs:attribute name="label" use="required" type="xs:string"/> <xs:attribute name="size" type="xs:string"/> <xs:attribute name="target" type="xs:string"/> <xs:attribute name="timestamp" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element dataSource

Namespace	No namespace				
Annotations	A data source is the platform specific location for the file being described by the data file tag. If the simulation is run on multiple platforms, multiple data source tags can be used to specify the various locations of the needed file.				
Diagram					
Properties	content:	complex			
	mixed:	true			
Used by	Element	dataFile			
Model					
Attributes	QName	Type	Fixed	Default	Use
	platform	xs:string			optional
	site	xs:string			optional
Source	<pre><xs:element name="dataSource"> <xs:annotation> <xs:documentation>A data source is the platform specific location for the file being described by the data file tag. If the simulation is run on multiple platforms, multiple data source tags can be used to specify the various locations of the needed file.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="platform" type="xs:string"/> <xs:attribute name="site" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element dataTable

Namespace	No namespace
Annotations	Data tables hold input configuration details.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element input
Source	<pre><xs:element name="dataTable" type="xs:string"> <xs:annotation> <xs:documentation>Data tables hold input configuration details.</xs:documentation> </xs:annotation> </xs:element></pre>

Element diagTable

Namespace	No namespace				
Annotations	Diagnostic tables hold input configuration details.				
Diagram					

Properties	content: complex				
	mixed: true				
Used by	Element	input			
Model					
Attributes	QName	Type	Fixed	Default	Use
	file	xs:string			optional
Source	<pre><xs:element name="diagTable"> <xs:annotation> <xs:documentation>Diagnostic tables hold input configuration details.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="file" type="xs:string"/> </xs:complexType> </xs:element></pre>				

Element fieldTable

Namespace	No namespace		
Annotations	Field tables hold input configuration details.		
Diagram	<p>The diagram illustrates the <code>fieldTable</code> element. It is represented by a rectangle with a blue header labeled <code>fieldTable</code> and a body labeled <code>Type xs:string</code>. A circle with a horizontal line (a required association end) is on the right side of the rectangle. A line connects this circle to a purple hexagon labeled <code>xs:string</code>, which represents the built-in primitive type. A callout box points to the <code>fieldTable</code> rectangle with the text: "Field tables hold input configuration details." Another callout box points to the <code>xs:string</code> hexagon with the text: "Built-in primitive type. The string datatype represents character strings in XML."</p>		
Type	xs:string		
Properties	content:	simple	
Used by	Element	input	
Source	<pre><xs:element name="fieldTable" type="xs:string"> <xs:annotation> <xs:documentation>Field tables hold input configuration details.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element namelist

Namespace	No namespace				
Annotations	Namelists are fortran files that consist of simple name and value pairs. They are used to define configuration options in the model.				
Diagram					
Properties	content:	complex			
	mixed:	true			
Used by	Element	input			
Model					
Attributes	QName	Type	Fixed	Default	Use
	file	xs:string			optional
	name	xs:string			optional
Source	<pre><xs:element name="namelist"> <xs:annotation></pre>				

```

<xs:documentation>Namelists are fortran files that consist of simple name and value pairs. They
are used to define configuration options in the model.</xs:documentation>
</xs:annotation>
<xs:complexType mixed="true">
  <xs:attribute name="file" type="xs:string"/>
  <xs:attribute name="name" type="xs:string"/>
</xs:complexType>
</xs:element>

```

Element postProcess

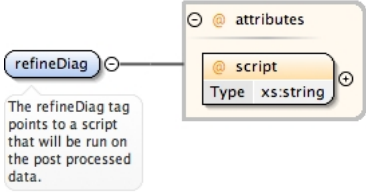
Namespace	No namespace																			
Annotations	This tag holds all of the post processing settings. Inside of this tag, the components, time ranges, and variable subsets are declared for post processing.																			
Diagram																				
Properties	content:	complex																		
Used by	Element	experiment																		
Model	csh refineDiag component																			
Children	component, csh, refineDiag																			
Instance	<pre><postProcess combine="" npes=""> <csh type="">{1,1}</csh> <refineDiag script="">{1,1}</refineDiag> <component cubicToLatLon="" interpMethod="" source="" start="" type="" zInterp="">{1,1}</ component> </postProcess></pre>																			
Attributes	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>combine</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>npes</td><td>xs:integer</td><td></td><td></td><td>optional</td></tr></table>	QName	Type	Fixed	Default	Use	combine	xs:string			optional	npes	xs:integer			optional				
QName	Type	Fixed	Default	Use																
combine	xs:string			optional																
npes	xs:integer			optional																
Source	<pre><xs:element name="postProcess"> <xs:annotation> <xs:documentation>This tag holds all of the post processing settings. Inside of this tag, the components, time ranges, and variable subsets are declared for post processing.</xs:documentation> </xs:annotation> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="csh"> <xs:annotation> <xs:documentation>The csh tag can be used to issue shell commands that will be run before post processing occurs.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="refineDiag"> <xs:annotation> <xs:documentation/> </xs:annotation> </xs:element> <xs:element name="component"> <xs:annotation> <xs:documentation>The component defines the type of output component (which will be the output directory name that contains the post processed files), the z-interpolation method, the start year (in the event that you wish to account for spin up time), the source component (which should link back to a component defined in the experiment tag, an interpolation method, and finally a cubed-sphere to lat/lon grid conversion factor.</xs:documentation> </xs:annotation> </xs:element> </xs:choice> </xs:complexType> </xs:element></pre>																			

```

</xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" ref="timeSeries">
      <xs:annotation>
        <xs:documentation>This tag defines the frequency in which the original model output
data is to be post processed, as well as the "chunk length" or the length of time per output
file.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element minOccurs="0" maxOccurs="unbounded" ref="timeAverage"/>
  </xs:sequence>
  <xs:attribute name="cubicToLatLon" type="xs:string"/>
  <xs:attribute name="interpMethod" type="xs:string"/>
  <xs:attribute name="source" type="xs:string"/>
  <xs:attribute name="start" type="xs:string"/>
  <xs:attribute name="type" type="xs:string"/>
  <xs:attribute name="zInterp" type="xs:string"/>
</xs:complexType>
</xs:element>
</xs:choice>
<xs:attribute name="combine" type="xs:string"/>
<xs:attribute name="npes" type="xs:integer"/>
</xs:complexType>
</xs:element>

```

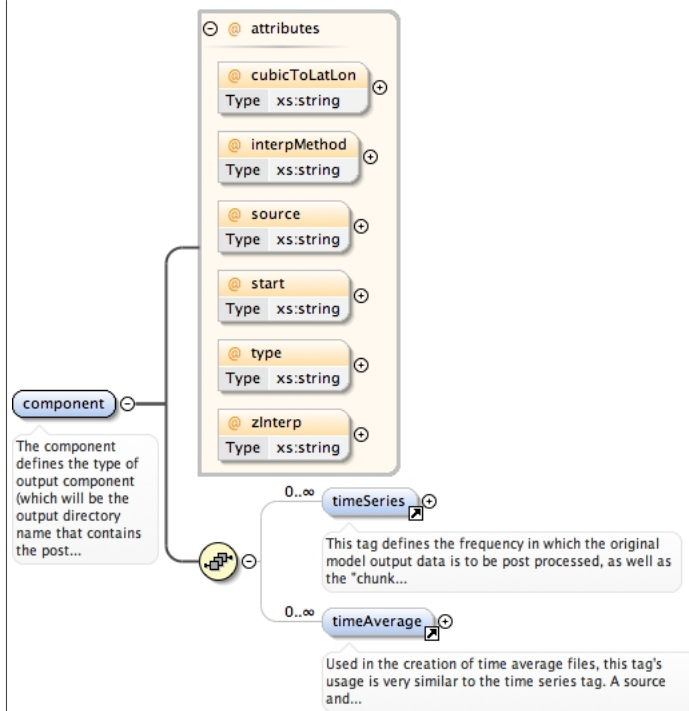
Element refineDiag

Namespace	No namespace				
Annotations	The refineDiag tag points to a script that will be run on the post processed data.				
Diagram	 <p>The refineDiag tag points to a script that will be run on the post processed data.</p>				
Properties	content:	complex			
Used by	Element	postProcess			
Attributes	QName	Type	Fixed	Default	Use
	script	xs:string			required
Source	<pre> <xs:element name="refineDiag"> <xs:annotation> <xs:documentation>The refineDiag tag points to a script that will be run on the post processed data.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="script" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element postProcess / component

Namespace	No namespace
Annotations	The component defines the type of output component (which will be the output directory name that contains the post processed files), the z-interpolation method, the start year (in the event that you wish to account for spin up time), the source component (which should link back to a component defined in the experiment tag, an interpolation method, and finally a cubed-sphere to lat/lon grid conversion factor.

Diagram



Properties content: complex

Model timeSeries*, timeAverage*

Children timeAverage, timeSeries

Instance

```
<component cubicToLatLon="" interpMethod="" source="" start="" type="" zInterp="">
  <timeSeries chunkLength="" cumulative="" endYear="" freq="" from="" source="">{0,unbounded}</timeSeries>
  <timeAverage calcInterval="" endYear="" from="" interval="" source="">{0,unbounded}</timeAverage>
</component>
```

Attributes	QName	Type	Fixed	Default	Use
	cubicToLatLon	xs:string			optional
	interpMethod	xs:string			optional
	source	xs:string			optional
	start	xs:string			optional
	type	xs:string			optional
	zInterp	xs:string			optional

Source

```
<xs:element name="component">
  <xs:annotation>
    <xs:documentation>The component defines the type of output component (which will be the output
    directory name that contains the post processed files), the z-interpolation method, the start year
    (in the event that you wish to account for spin up time), the source component (which should link
    back to a component defined in the experiment tag, an interpolation method, and finally a cubed-
    sphere to lat/lon grid conversion factor.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" ref="timeSeries">
        <xs:annotation>
          <xs:documentation>This tag defines the frequency in which the original model output data
          is to be post processed, as well as the "chunk length" or the length of time per output file.</
          xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element minOccurs="0" maxOccurs="unbounded" ref="timeAverage"/>
    </xs:sequence>
    <xs:attribute name="cubicToLatLon" type="xs:string"/>
    <xs:attribute name="interpMethod" type="xs:string"/>
    <xs:attribute name="source" type="xs:string"/>
    <xs:attribute name="start" type="xs:string"/>
    <xs:attribute name="type" type="xs:string"/>
    <xs:attribute name="zInterp" type="xs:string"/>
  </xs:complexType>
```

```
</xs:element>
```

Element timeSeries

Namespace	No namespace				
Annotations	Used in the creation of time series files, it defines the frequency, source of the time series files, and the chunk length.				
Diagram					
Properties	content:	complex			
Used by	Element	postProcess/component			
Model	variables{0,1} , analysis* , xi:include{0,1}				
Children	analysis, variables, xi:include				
Instance	<pre><timeSeries chunkLength="" cumulative="" endYear="" freq="" from="" source="" xmlns:xi="http://www.w3.org/2001/XInclude"> <variables>{0,1}</variables> <analysis xml:base="" cumulative="" endYear="" mode="" momGrid="" outdir="" script="" specifyYear="" startYear=""> <xi:include href="" xpointer="">{0,1}</xi:include> </analysis> </timeSeries></pre>				
Attributes	QName	Type	Fixed	Default	Use
	chunkLength	xs:string			required
	cumulative	xs:string			optional
	endYear	xs:integer			optional
	freq	xs:string			required
	from	xs:string			optional
	source	xs:string			optional
Source	<pre><xs:element name="timeSeries"> <xs:annotation> <xs:documentation>Used in the creation of time series files, it defines the frequency, source of the time series files, and the chunk length.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element minOccurs="0" ref="variables"/> <xs:element minOccurs="0" maxOccurs="unbounded" ref="analysis"/> <xs:element minOccurs="0" ref="xi:include"/> </xs:sequence> <xs:attribute name="chunkLength" use="required" type="xs:string"/> </xs:complexType> </xs:element></pre>				

```

<xs:attribute name="cumulative" type="xs:string"/>
<xs:attribute name="endYear" type="xs:integer"/>
<xs:attribute name="freq" use="required" type="xs:string"/>
<xs:attribute name="from" type="xs:string"/>
<xs:attribute name="source" type="xs:string"/>
</xs:complexType>
</xs:element>

```

Element variables

Namespace	No namespace
Annotations	If only specific variables are needed, they can be defined in this tag. If this tag is not present, all variables are post processed.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element timeSeries
Source	<pre> <xs:element name="variables" type="xs:string"> <xs:annotation> <xs:documentation>If only specific variables are needed, they can be defined in this tag. If this tag is not present, all variables are post processed.</xs:documentation> </xs:annotation> </xs:element> </pre>

Element analysis

Namespace	No namespace
Annotations	Defines the location of analysis scripts to be run after the post processed data has been created.
Diagram	
Properties	content: complex mixed: true
Used by	Elements timeAverage, timeSeries

Model					
Attributes	QName	Type	Fixed	Default	Use
	cumulative	xs:string			optional
	endYear	Year			optional
	mode	xs:string			optional
	momGrid	xs:string			optional
	outdir	xs:string			optional
	script	xs:string			optional
	specify1year	xs:integer			optional
	startYear	Year			optional
	switch	xs:string			optional
	xml:base				optional
Source	<pre> <xs:element name="analysis"> <xs:annotation> <xs:documentation>Defines the location of analysis scripts to be run after the post processed data has been created.</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="cumulative" type="xs:string"/> <xs:attribute name="mode" type="xs:string"/> <xs:attribute name="momGrid" type="xs:string"/> <xs:attribute name="script" type="xs:string"/> <xs:attribute name="specify1year" type="xs:integer"/> <xs:attribute name="startYear" type="Year"/> <xs:attribute name="endYear" type="Year"/> <xs:attribute name="switch" type="xs:string"/> <xs:attribute name="outdir" type="xs:string"/> <xs:attribute ref="xml:base"/> </xs:complexType> </xs:element> </pre>				

Element timeAverage

Namespace	No namespace	
Annotations	Used in the creation of time average files, this tag's usage is very similar to the time series tag. A source and interval are defined for creating these files.	
Diagram	<pre> graph TD timeAverage[timeAverage] --- attributes[attributes] timeAverage --- analysis[analysis] attributes --- calcInterval[calcInterval Type xs:string] attributes --- endYear[endYear Type xs:integer] attributes --- from[from Type xs:string] attributes --- interval[interval Type xs:string] attributes --- source[source Type xs:string] analysis --- xiInclude[xi:include] </pre> <p>Used in the creation of time average files, this tag's usage is very similar to the time series tag. A source and interval are defined for creating these files.</p> <p>Defines the location of analysis scripts to be run after the post processed data has been created.</p>	
Properties	content:	complex
Used by	Element	postProcess/component
Model	xi:include analysis*	
Children	analysis, xi:include	
Instance	<pre> <timeAverage calcInterval="" endYear="" from="" interval="" source="" xmlns:xi="http:// www.w3.org/2001/XInclude"> </pre>	

	<pre> <xi:include href="" xpointer="">{1,1}</xi:include> <analysis xml:base="" cumulative="" endYear="" mode="" momGrid="" outdir="" script="" specifyyear="" startYear="" analysis> </timeAverage> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	calcInterval	xs:string			optional
	endYear	xs:integer			optional
	from	xs:string			optional
	interval	xs:string			required
	source	xs:string			required
Source	<pre> <xs:element name="timeAverage"> <xs:annotation> <xs:documentation>Used in the creation of time average files, this tag's usage is very similar to the time series tag. A source and interval are defined for creating these files.</ </xs:documentation> </xs:annotation> <xs:complexType> <xs:choice> <xs:element ref="xi:include" /> <xs:element minOccurs="0" maxOccurs="unbounded" ref="analysis" /> </xs:choice> <xs:attribute name="calcInterval" type="xs:string" /> <xs:attribute name="endYear" type="xs:integer" /> <xs:attribute name="from" type="xs:string" /> <xs:attribute name="interval" use="required" type="xs:string" /> <xs:attribute name="source" use="required" type="xs:string" /> </xs:complexType> </xs:element> </pre>				

Element realization

Namespace	No namespace				
Annotations	<p>This tag is part of the fre-curator tools and is not required for the main part of FRE. What follows is the CMIP5 definition of what values these ensemble members should contain. When multiple simulations are derived from the same experiment, the 'r' value should be incremented. When the initialization method or input files are altered, the 'i' value should be incremented. When forcings cause the physics version to differ between simulations, the 'p' value should be incremented.</p>				
Diagram	<p>The diagram illustrates the 'realization' element. It is a container for three attributes: 'i', 'p', and 'r'. Each attribute is of type 'xs:integer'. A callout box points to the 'realization' element, stating: 'This tag is part of the fre-curator tools and is not required for the main part of FRE. What follows is the CMIP5...'</p>				
Properties	content:	complex			
Used by	Element	experiment			
Attributes	QName	Type	Fixed	Default	Use
	i	xs:integer			required
	p	xs:integer			required
	r	xs:integer			required
Source	<pre> <xs:element name="realization"> <xs:annotation> <xs:documentation>This tag is part of the fre-curator tools and is not required for the main part of FRE. What follows is the CMIP5 definition of what values these ensemble members should contain. When multiple simulations are derived from the same experiment, the 'r' value should be incremented. When the initialization method or input files are altered, the 'i' value should be incremented. When forcings cause the physics version to differ between simulations, the 'p' value should be incremented.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="i" use="required" type="xs:integer" /> </pre>				

```

<xs:attribute name="p" use="required" type="xs:integer"/>
<xs:attribute name="r" use="required" type="xs:integer"/>
</xs:complexType>
</xs:element>

```

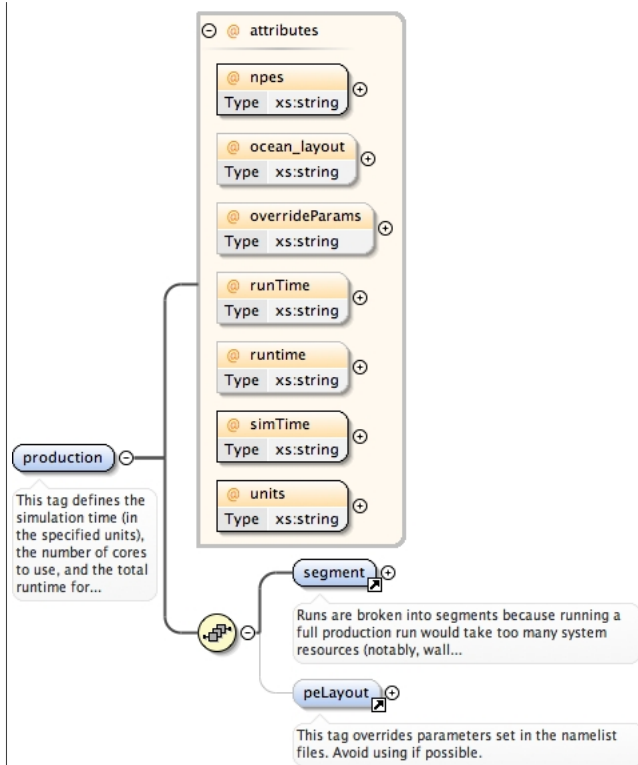
Element runtime

Namespace	No namespace
Annotations	The runtime tag holds production and regression run details.
Diagram	<p>The diagram illustrates the structure of the <code>runtime</code> element. It is a container for a choice of four optional elements: <code>dataFile</code>, <code>production</code>, <code>reference</code>, and <code>regression</code>, followed by an optional <code>csh</code> element. The choice is optional (0..∞) and the <code>csh</code> element is optional (0..1). Each element has a description:</p> <ul style="list-style-type: none"> <code>dataFile</code>: Each input file that is needed for the model run must be defined in a <code>dataFile</code> tag. The file is given a label to define... <code>production</code>: This tag defines the simulation time (in the specified units), the number of cores to use, and the total runtime for... <code>reference</code>: This tag can define the platform and the path to a restart file for an optimized reference run. <code>regression</code>: This tag defines regression test runs. <code>csh</code>: Csh tags allow for shell commands to be run before specific phases in the FRE workflow. <p>The <code>runtime</code> tag holds production and regression run details.</p>
Properties	content: complex
Used by	Element experiment
Model	(dataFile production reference regression) , csh{0,1}
Children	csh, dataFile, production, reference, regression
Instance	<pre> <runtime> <dataFile checksum="" label="" size="" target="" timestamp="">{1,1}</dataFile> <production npes="" ocean_layout="" overrideParams="" runtime="" runTime="" simTime="" units="">{1,1}</production> <reference platform="" restart="" site="">{1,1}</reference> <regression label="" name="">{1,1}</regression> <csh type="">{0,1}</csh> </runtime> </pre>
Source	<pre> <xs:element name="runtime"> <xs:annotation> <xs:documentation>The runtime tag holds production and regression run details.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="dataFile"/> <xs:element ref="production"/> <xs:element ref="reference"/> <xs:element ref="regression"/> </xs:choice> <xs:element minOccurs="0" ref="csh"/> </xs:sequence> </xs:complexType> </xs:element> </pre>

Element production

Namespace	No namespace
Annotations	This tag defines the simulation time (in the specified units), the number of cores to use, and the total runtime for the run.

Diagram



Properties content: complex

Used by Element runtime

Model segment , peLayout{0,1}

Children peLayout, segment

Instance

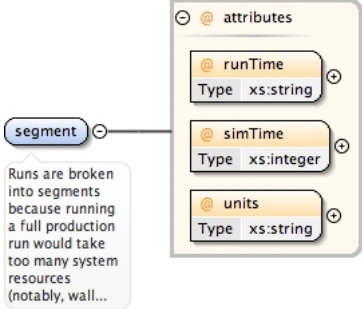
```
<production npes="" ocean_layout="" overrideParams="" runtime="" runTime="" simTime="" units="">
  <segment runTime="" simTime="" units="">{1,1}</segment>
  <peLayout ocean="">{0,1}</peLayout>
</production>
```

Attributes	QName	Type	Fixed	Default	Use
	npes	xs:string			required
	ocean_layout	xs:string			optional
	overrideParams	xs:string			optional
	runTime	xs:string			optional
	runtime	xs:string			optional
	simTime	xs:string			required
	units	xs:string			required

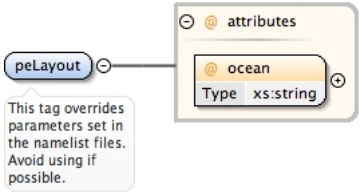
Source

```
<xs:element name="production">
  <xs:annotation>
    <xs:documentation>This tag defines the simulation time (in the specified units), the number of
    cores to use, and the total runtime for the run.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="segment"/>
      <xs:element minOccurs="0" ref="peLayout"/>
    </xs:sequence>
    <xs:attribute name="npes" use="required" type="xs:string"/>
    <xs:attribute name="ocean_layout" type="xs:string"/>
    <xs:attribute name="overrideParams" type="xs:string"/>
    <xs:attribute name="runTime" type="xs:string"/>
    <xs:attribute name="runtime" type="xs:string"/>
    <xs:attribute name="simTime" use="required" type="xs:string"/>
    <xs:attribute name="units" use="required" type="xs:string"/>
  </xs:complexType>
</xs:element>
```

Element segment

Namespace	No namespace				
Annotations	Runs are broken into segments because running a full production run would take too many system resources (notably, wall clock time). Segments define their own simulation time (and units), as well as their own run time. The run time defined in the production tag will be used over the run time defined in the segment tag.				
Diagram					
Properties	content:	complex			
Used by	Element	production			
Attributes	QName	Type	Fixed	Default	Use
	runTime	xs:string			required
	simTime	xs:integer			required
	units	xs:string			required
Source	<pre> <xs:element name="segment"> <xs:annotation> <xs:documentation>Runs are broken into segments because running a full production run would take too many system resources (notably, wall clock time). Segments define their own simulation time (and units), as well as their own run time. The run time defined in the production tag will be used over the run time defined in the segment tag.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="runTime" use="required" type="xs:string"/> <xs:attribute name="simTime" use="required" type="xs:integer"/> <xs:attribute name="units" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element peLayout

Namespace	No namespace				
Annotations	This tag overrides parameters set in the namelist files. Avoid using if possible.				
Diagram					
Properties	content:	complex			
Used by	Element	production			
Attributes	QName	Type	Fixed	Default	Use
	ocean	xs:string			required
Source	<pre> <xs:element name="peLayout"> <xs:annotation> <xs:documentation>This tag overrides parameters set in the namelist files. Avoid using if possible.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="ocean" use="required" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element reference

Namespace	No namespace				
Annotations	This tag can define the platform and the path to a restart file for an optimized reference run.				
Diagram					
Properties	content:	complex			
Used by	Element	runtime			
Attributes	QName	Type	Fixed	Default	Use
	platform	xs:string			optional
	restart	xs:string			required
	site	xs:string			optional
Source	<pre> <xs:element name="reference"> <xs:annotation> <xs:documentation>This tag can define the platform and the path to a restart file for an optimized reference run.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="platform" type="xs:string"/> <xs:attribute name="restart" use="required" type="xs:string"/> <xs:attribute name="site" type="xs:string"/> </xs:complexType> </xs:element> </pre>				

Element regression

Namespace	No namespace				
Annotations	This tag defines regression test runs.				
Diagram					
Properties	content:	complex			
Used by	Element	runtime			
Model	run+				
Children	run				
Instance	<pre><regression label="" name=""> <run days="" hours="" months="" npes="" overrideParams="" runTimePerJob="">{1,unbounded}</run> </regression></pre>				
Attributes	QName	Type	Fixed	Default	Use
	label	xs:string			optional
	name	xs:string			optional

Source	<pre> <xs:element name="regression"> <xs:annotation> <xs:documentation>This tag defines regression test runs.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element maxOccurs="unbounded" ref="run" /> </xs:sequence> <xs:attribute name="label" type="xs:string" /> <xs:attribute name="name" type="xs:string" /> </xs:complexType> </xs:element> </pre>
--------	--

Element run

Namespace	No namespace																																							
Annotations	A regression run frequency, number of cores, run time per job, and optional namelist override parameters are specified in this tag.																																							
Diagram																																								
Properties	content:	complex																																						
Used by	Element	regression																																						
Attributes	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>days</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>hours</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>months</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>npes</td><td>xs:string</td><td></td><td></td><td>required</td></tr><tr><td>overrideParams</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>runTimePerJob</td><td>xs:string</td><td></td><td></td><td>required</td></tr></table>	QName	Type	Fixed	Default	Use	days	xs:string			optional	hours	xs:string			optional	months	xs:string			optional	npes	xs:string			required	overrideParams	xs:string			optional	runTimePerJob	xs:string			required				
QName	Type	Fixed	Default	Use																																				
days	xs:string			optional																																				
hours	xs:string			optional																																				
months	xs:string			optional																																				
npes	xs:string			required																																				
overrideParams	xs:string			optional																																				
runTimePerJob	xs:string			required																																				
Source	<pre><xs:element name="run"> <xs:annotation> <xs:documentation>A regression run frequency, number of cores, run time per job, and optional namelist override parameters are specified in this tag.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="days" type="xs:string"/> <xs:attribute name="hours" type="xs:string"/> <xs:attribute name="months" type="xs:string"/> <xs:attribute name="npes" use="required" type="xs:string"/> <xs:attribute name="overrideParams" type="xs:string"/> <xs:attribute name="runTimePerJob" use="required" type="xs:string"/> </xs:complexType> </xs:element></pre>																																							

Element scenario

Namespace	No namespace
Annotations	This tag is only used by fre-curator and does not impact general usage of FRE. It defines: forcings used in the simulation, the start and end time of the simulation, and parent experiment information (including name, ensemble member values, and the branch time).

Diagram	<div><div>scenario</div><div>This tag is only used by fre-curator and does not impact general usage of FRE. It defines: forcings used in the...</div><div><div>attributes</div><div><div>branch_time</div><div>Type xs:decimal</div></div><div><div>communityForcing</div><div>Type xs:string</div></div><div><div>endTime</div><div>Type xs:integer</div></div><div><div>parentExperimentID</div><div>Type xs:string</div></div><div><div>parentExperimentRIP</div><div>Type xs:string</div></div><div><div>startTime</div><div>Type xs:integer</div></div></div></div>																																			
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>mixed:</td><td>true</td></tr></table>	content:	complex	mixed:	true																															
content:	complex																																			
mixed:	true																																			
Used by	<table><tr><td>Element</td><td>experiment</td></tr></table>	Element	experiment																																	
Element	experiment																																			
Model																																				
Attributes	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>branch_time</td><td>xs:decimal</td><td></td><td></td><td>optional</td></tr><tr><td>communityForcing</td><td>xs:string</td><td></td><td></td><td>required</td></tr><tr><td>endTime</td><td>xs:integer</td><td></td><td></td><td>required</td></tr><tr><td>parentExperimentID</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>parentExperimentRIP</td><td>xs:string</td><td></td><td></td><td>optional</td></tr><tr><td>startTime</td><td>xs:integer</td><td></td><td></td><td>required</td></tr></table>	QName	Type	Fixed	Default	Use	branch_time	xs:decimal			optional	communityForcing	xs:string			required	endTime	xs:integer			required	parentExperimentID	xs:string			optional	parentExperimentRIP	xs:string			optional	startTime	xs:integer			required
QName	Type	Fixed	Default	Use																																
branch_time	xs:decimal			optional																																
communityForcing	xs:string			required																																
endTime	xs:integer			required																																
parentExperimentID	xs:string			optional																																
parentExperimentRIP	xs:string			optional																																
startTime	xs:integer			required																																
Source	<pre><xs:element name="scenario"> <xs:annotation> <xs:documentation>This tag is only used by fre-curator and does not impact general usage of FRE. It defines: forcings used in the simulation, the start and end time of the simulation, and parent experiment information (including name, ensemble member values, and the branch time).</ xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="branch_time" type="xs:decimal"/> <xs:attribute name="communityForcing" use="required" type="xs:string"/> <xs:attribute name="endTime" use="required" type="xs:integer"/> <xs:attribute name="parentExperimentID" type="xs:string"/> <xs:attribute name="parentExperimentRIP" type="xs:string"/> <xs:attribute name="startTime" use="required" type="xs:integer"/> </xs:complexType> </xs:element></pre>																																			

Simple Type(s)

Simple Type Year

Namespace	No namespace	
Annotations	Restricts the possible values for a valid year to a sane range.	
Diagram	<div><div></div></div>	
Type	restriction of xs:positiveInteger	
Facets	maxInclusive	9999
	minInclusive	0001
Used by	Attributes	analysis/@endYear, analysis/@startYear
Source	<xs:simpleType name="Year">	


```

<xs:annotation>
  <xs:documentation>Restricts the possible values for a valid year to a sane range.</
xs:documentation>
</xs:annotation>
<xs:restriction base="xs:positiveInteger">
  <xs:minInclusive value="0001"/>
  <xs:maxInclusive value="9999"/>
</xs:restriction>
</xs:simpleType>

```

Simple Type RtsVersion

Namespace	No namespace				
Annotations	Restricts the valid values for the schema version (the terminology 'rtsVersion' no longer means what it once did -- it is now simply the schema version).				
Diagram					
Type	restriction of xs:positiveInteger				
Facets	<table> <tr> <td>maxInclusive</td><td>4</td></tr> <tr> <td>minInclusive</td><td>1</td></tr> </table>	maxInclusive	4	minInclusive	1
maxInclusive	4				
minInclusive	1				
Used by	Attribute experimentSuite/@rtsVersion				
Source	<pre> <xs:simpleType name="RtsVersion"> <xs:annotation> <xs:documentation>Restricts the valid values for the schema version (the terminology 'rtsVersion' no longer means what it once did -- it is now simply the schema version).</ xs:documentation> </xs:annotation> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="4"/> </xs:restriction> </xs:simpleType> </pre>				

Simple Type ChunkLength

Namespace	No namespace		
Annotations	Restricts the possible values for the chunk length (or how much data, in some unit of time, should be present in each output file).		
Diagram			
Type	restriction of xs:string		
Facets	<table> <tr> <td>pattern</td><td>[0-9]+yr</td></tr> </table>	pattern	[0-9]+yr
pattern	[0-9]+yr		
Source	<pre> <xs:simpleType name="ChunkLength"> <xs:annotation> <xs:documentation>Restricts the possible values for the chunk length (or how much data, in some unit of time, should be present in each output file).</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="[0-9]+yr"/> </xs:restriction> </xs:simpleType> </pre>		

Simple Type PostProcessInterpMethod

Namespace	No namespace
Annotations	Restricts the possible values for the interpolation method.
Diagram	

Type	restriction of xs:string
Facets	enumeration conserve_order1
	enumeration conserve_order2
Source	<pre> <xs:simpleType name="PostProcessInterpMethod"> <xs:annotation> <xs:documentation>Restricts the possible values for the interpolation method.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="conserve_order1"/> <xs:enumeration value="conserve_order2"/> </xs:restriction> </xs:simpleType> </pre>

Simple Type PostProcessZInterp

Namespace	No namespace
Annotations	Restricts the possible values of the post processing z-interpolation values.
Diagram	
Type	restriction of xs:string
Facets	enumeration ncep
	enumeration am3
	enumeration hs20
	enumeration era40
	enumeration narcaap
	enumeration zgrid
Source	<pre> <xs:simpleType name="PostProcessZInterp"> <xs:annotation> <xs:documentation>Restricts the possible values of the post processing z-interpolation values.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="ncep"/> <xs:enumeration value="am3"/> <xs:enumeration value="hs20"/> <xs:enumeration value="era40"/> <xs:enumeration value="narcaap"/> <xs:enumeration value="zgrid"/> </xs:restriction> </xs:simpleType> </pre>

Attribute(s)

Attribute xi:include / @href

Namespace	No namespace
Used by	Element xi:include
Source	<code><xs:attribute name="href"/></code>

Attribute xi:include / @xpointer

Namespace	No namespace
Used by	Element xi:include
Source	<code><xs:attribute name="xpointer"/></code>

Attribute property / @name

Namespace	No namespace
Type	xs:string

Properties	use: required
Used by	Element property
Source	<code><xs:attribute name="name" use="required" type="xs:string"/></code>

Attribute property / @value

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element property
Source	<code><xs:attribute name="value" use="required" type="xs:string"/></code>

Attribute csh / @type

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element csh
Source	<code><xs:attribute name="type" type="xs:string"/></code>

Attribute directory / @stem

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element directory
Source	<code><xs:attribute name="stem" type="xs:string"/></code>

Attribute mkmfTemplate / @file

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element mkmfTemplate
Source	<code><xs:attribute name="file" use="required" type="xs:string"/></code>

Attribute platform / @name

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element platform
Source	<code><xs:attribute name="name" use="required" type="xs:string"/></code>

Attribute user / @login

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element user
Source	<code><xs:attribute name="login" use="required" type="xs:string"/></code>

Attribute user / @name

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	user
Source	<code><xs:attribute name="name" use="required" type="xs:string"/></code>	

Attribute user / @email

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	user
Source	<code><xs:attribute name="email" use="required" type="xs:string"/></code>	

Attribute institution / @name

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	institution
Source	<code><xs:attribute name="name" use="required" type="xs:string"/></code>	

Attribute institution / @address

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	institution
Source	<code><xs:attribute name="address" use="required" type="xs:string"/></code>	

Attribute institution / @url

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	institution
Source	<code><xs:attribute name="url" use="required" type="xs:string"/></code>	

Attribute experiment / component / description / @communityGrid

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	experiment/component/description
Source	<code><xs:attribute name="communityGrid" type="xs:string"/></code>	

Attribute experiment / component / description / @communityName

Namespace	No namespace	
-----------	--------------	--

Type	xs:string
Properties	content: simple
Used by	Element experiment/component/description
Source	<code><xs:attribute name="communityName" type="xs:string"/></code>

Attribute experiment / component / description / @communityVersion

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element experiment/component/description
Source	<code><xs:attribute name="communityVersion" type="xs:string"/></code>

Attribute experiment / component / description / @domainName

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element experiment/component/description
Source	<code><xs:attribute name="domainName" type="xs:string"/></code>

Attribute codeBase / @version

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element codeBase
Source	<code><xs:attribute name="version" use="required" type="xs:string"/></code>

Attribute source / @versionControl

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element source
Source	<code><xs:attribute name="versionControl" type="xs:string"/></code>

Attribute source / @versonControl

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element source
Source	<code><xs:attribute name="versonControl" type="xs:string"/></code>

Attribute compile / @target

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element compile

Source	<code><xs:attribute name="target" type="xs:string"/></code>
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Attribute library / @headerDir

Namespace	No namespace		
Type	xs:string		
Properties	use:	required	
Used by	Element	library	
Source	<xs:attribute name="headerDir" use="required" type="xs:string" />		

Attribute library / @path

Namespace	No namespace		
Type	xs:string		
Properties	content:	simple	
Used by	Element	library	
Source	<xs:attribute name="path" type="xs:string" />		

Attribute experiment / component / @includeDir

Namespace	No namespace		
Type	xs:string		
Properties	content:	simple	
Used by	Element	experiment/component	
Source	<xs:attribute name="includeDir" type="xs:string" />		

Attribute experiment / component / @name

Namespace	No namespace		
Type	xs:string		
Properties	content:	simple	
Used by	Element	experiment/component	
Source	<xs:attribute name="name" type="xs:string" />		

Attribute experiment / component / @paths

Namespace	No namespace		
Type	xs:string		
Properties	content:	simple	
Used by	Element	experiment/component	
Source	<xs:attribute name="paths" type="xs:string"/>		

Attribute experiment / component / @requires

Namespace	No namespace		
Type	xs:string		
Properties	content:	simple	
Used by	Element	experiment/component	
Source	<xs:attribute name="requires" type="xs:string"/>		

Attribute experiment / description / @communityExperimentID

Namespace	No namespace		
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Type	xs:string	
Properties	content:	simple
Used by	Element	experiment/description
Source	<xs:attribute name="communityExperimentID" type="xs:string"/>	

Attribute experiment / description / @communityExperimentName

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	experiment/description
Source	<xs:attribute name="communityExperimentName" type="xs:string"/>	

Attribute experiment / description / @communityModel

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	experiment/description
Source	<xs:attribute name="communityModel" type="xs:string"/>	

Attribute experiment / description / @communityModelID

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	experiment/description
Source	<xs:attribute name="communityModelID" type="xs:string"/>	

Attribute experiment / description / @communityProject

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	experiment/description
Source	<xs:attribute name="communityProject" type="xs:string"/>	

Attribute executable / @file

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	executable
Source	<xs:attribute name="file" use="required" type="xs:string"/>	

Attribute initCond / @file

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	initCond

Source	<code><xs:attribute name="file" use="required" type="xs:string"/></code>
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Attribute gridSpec / @file

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element gridSpec
Source	<code><xs:attribute name="file" use="required" type="xs:string"/></code>

Attribute dataSource / @platform

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dataSource
Source	<code><xs:attribute name="platform" type="xs:string"/></code>

Attribute dataSource / @site

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dataSource
Source	<code><xs:attribute name="site" type="xs:string"/></code>

Attribute dataFile / @chksum

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dataFile
Source	<code><xs:attribute name="chksum" type="xs:string"/></code>

Attribute dataFile / @label

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element dataFile
Source	<code><xs:attribute name="label" use="required" type="xs:string"/></code>

Attribute dataFile / @size

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dataFile
Source	<code><xs:attribute name="size" type="xs:string"/></code>

Attribute dataFile / @target

Namespace	No namespace
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Type	xs:string	
Properties	content:	simple
Used by	Element	dataFile
Source	<xs:attribute name="target" type="xs:string" />	

Attribute dataFile / @timestamp

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	dataFile
Source	<xs:attribute name="timestamp" type="xs:string" />	

Attribute diagTable / @file

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	diagTable
Source	<xs:attribute name="file" type="xs:string" />	

Attribute namelist / @file

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	namelist
Source	<xs:attribute name="file" type="xs:string" />	

Attribute namelist / @name

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	namelist
Source	<xs:attribute name="name" type="xs:string" />	

Attribute refinediag / @script

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	refinediag
Source	<xs:attribute name="script" use="required" type="xs:string" />	

Attribute analysis / @cumulative

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple

Used by	Element analysis
Source	<code><xs:attribute name="cumulative" type="xs:string"/></code>

Attribute analysis / @mode

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element analysis
Source	<code><xs:attribute name="mode" type="xs:string"/></code>

Attribute analysis / @momGrid

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element analysis
Source	<code><xs:attribute name="momGrid" type="xs:string"/></code>

Attribute analysis / @script

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element analysis
Source	<code><xs:attribute name="script" type="xs:string"/></code>

Attribute analysis / @specifyYear

Namespace	No namespace
Type	xs:integer
Properties	content: simple
Used by	Element analysis
Source	<code><xs:attribute name="specifyYear" type="xs:integer"/></code>

Attribute analysis / @startYear

Namespace	No namespace
Type	Year
Properties	content: simple
Facets	maxInclusive 9999
	minInclusive 0001
Used by	Element analysis
Source	<code><xs:attribute name="startYear" type="Year"/></code>

Attribute analysis / @endYear

Namespace	No namespace
Type	Year
Properties	content: simple
Facets	maxInclusive 9999

	minInclusive	0001
Used by	Element	analysis
Source	<xs:attribute name="endYear" type="Year" />	

Attribute analysis / @switch

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	analysis
Source	<xs:attribute name="switch" type="xs:string" />	

Attribute analysis / @outdir

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	analysis
Source	<xs:attribute name="outdir" type="xs:string" />	

Attribute timeSeries / @chunkLength

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	timeSeries
Source	<xs:attribute name="chunkLength" use="required" type="xs:string" />	

Attribute timeSeries / @cumulative

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	timeSeries
Source	<xs:attribute name="cumulative" type="xs:string" />	

Attribute timeSeries / @endYear

Namespace	No namespace	
Type	xs:integer	
Properties	content:	simple
Used by	Element	timeSeries
Source	<xs:attribute name="endYear" type="xs:integer" />	

Attribute timeSeries / @freq

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	timeSeries
Source	<xs:attribute name="freq" use="required" type="xs:string" />	

Attribute timeSeries / @from

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	timeSeries
Source	<xs:attribute name="from" type="xs:string"/>	

Attribute timeSeries / @source

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	timeSeries
Source	<xs:attribute name="source" type="xs:string"/>	

Attribute timeAverage / @calcInterval

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	timeAverage
Source	<xs:attribute name="calcInterval" type="xs:string"/>	

Attribute timeAverage / @endYear

Namespace	No namespace	
Type	xs:integer	
Properties	content:	simple
Used by	Element	timeAverage
Source	<xs:attribute name="endYear" type="xs:integer"/>	

Attribute timeAverage / @from

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	timeAverage
Source	<xs:attribute name="from" type="xs:string"/>	

Attribute timeAverage / @interval

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	timeAverage
Source	<xs:attribute name="interval" use="required" type="xs:string"/>	

Attribute timeAverage / @source

Namespace	No namespace	
Type	xs:string	

Properties	use:	required
Used by	Element	timeAverage
Source	<code><xs:attribute name="source" use="required" type="xs:string"/></code>	

Attribute postProcess / component / @cubicToLatLon

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess/component
Source	<code><xs:attribute name="cubicToLatLon" type="xs:string"/></code>	

Attribute postProcess / component / @interpMethod

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess/component
Source	<code><xs:attribute name="interpMethod" type="xs:string"/></code>	

Attribute postProcess / component / @source

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess/component
Source	<code><xs:attribute name="source" type="xs:string"/></code>	

Attribute postProcess / component / @start

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess/component
Source	<code><xs:attribute name="start" type="xs:string"/></code>	

Attribute postProcess / component / @type

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess/component
Source	<code><xs:attribute name="type" type="xs:string"/></code>	

Attribute postProcess / component / @zInterp

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess/component
Source	<code><xs:attribute name="zInterp" type="xs:string"/></code>	

Attribute postProcess / @combine

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	postProcess
Source	<code><xs:attribute name="combine" type="xs:string"/></code>	

Attribute postProcess / @npes

Namespace	No namespace	
Type	xs:integer	
Properties	content:	simple
Used by	Element	postProcess
Source	<code><xs:attribute name="npes" type="xs:integer"/></code>	

Attribute realization / @i

Namespace	No namespace	
Type	xs:integer	
Properties	use:	required
Used by	Element	realization
Source	<code><xs:attribute name="i" use="required" type="xs:integer"/></code>	

Attribute realization / @p

Namespace	No namespace	
Type	xs:integer	
Properties	use:	required
Used by	Element	realization
Source	<code><xs:attribute name="p" use="required" type="xs:integer"/></code>	

Attribute realization / @r

Namespace	No namespace	
Type	xs:integer	
Properties	use:	required
Used by	Element	realization
Source	<code><xs:attribute name="r" use="required" type="xs:integer"/></code>	

Attribute segment / @runTime

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	segment
Source	<code><xs:attribute name="runTime" use="required" type="xs:string"/></code>	

Attribute segment / @simTime

Namespace	No namespace	
Type	xs:integer	

Properties	use: required
Used by	Element segment
Source	<code><xs:attribute name="simTime" use="required" type="xs:integer"/></code>

Attribute segment / @units

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element segment
Source	<code><xs:attribute name="units" use="required" type="xs:string"/></code>

Attribute peLayout / @ocean

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element peLayout
Source	<code><xs:attribute name="ocean" use="required" type="xs:string"/></code>

Attribute production / @npes

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element production
Source	<code><xs:attribute name="npes" use="required" type="xs:string"/></code>

Attribute production / @ocean_layout

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element production
Source	<code><xs:attribute name="ocean_layout" type="xs:string"/></code>

Attribute production / @overrideParams

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element production
Source	<code><xs:attribute name="overrideParams" type="xs:string"/></code>

Attribute production / @runTime

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element production
Source	<code><xs:attribute name="runTime" type="xs:string"/></code>

Attribute production / @runtime

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	production
Source	<code><xs:attribute name="runtime" type="xs:string"/></code>	

Attribute production / @simTime

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	production
Source	<code><xs:attribute name="simTime" use="required" type="xs:string"/></code>	

Attribute production / @units

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	production
Source	<code><xs:attribute name="units" use="required" type="xs:string"/></code>	

Attribute reference / @platform

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	reference
Source	<code><xs:attribute name="platform" type="xs:string"/></code>	

Attribute reference / @restart

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	reference
Source	<code><xs:attribute name="restart" use="required" type="xs:string"/></code>	

Attribute reference / @site

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	reference
Source	<code><xs:attribute name="site" type="xs:string"/></code>	

Attribute run / @days

Namespace	No namespace	
Type	xs:string	

Properties	content:	simple
Used by	Element	run
Source	<xs:attribute name="days" type="xs:string"/>	

Attribute run / @hours

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	run
Source	<xs:attribute name="hours" type="xs:string"/>	

Attribute run / @months

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	run
Source	<xs:attribute name="months" type="xs:string"/>	

Attribute run / @npes

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	run
Source	<xs:attribute name="npes" use="required" type="xs:string"/>	

Attribute run / @overrideParams

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	run
Source	<xs:attribute name="overrideParams" type="xs:string"/>	

Attribute run / @runTimePerJob

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	run
Source	<xs:attribute name="runTimePerJob" use="required" type="xs:string"/>	

Attribute regression / @label

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	regression
Source	<xs:attribute name="label" type="xs:string"/>	

Attribute regression / @name

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	regression
Source	<code><xs:attribute name="name" type="xs:string"/></code>	

Attribute scenario / @branch_time

Namespace	No namespace	
Type	xs:decimal	
Properties	content:	simple
Used by	Element	scenario
Source	<code><xs:attribute name="branch_time" type="xs:decimal"/></code>	

Attribute scenario / @communityForcing

Namespace	No namespace	
Type	xs:string	
Properties	use:	required
Used by	Element	scenario
Source	<code><xs:attribute name="communityForcing" use="required" type="xs:string"/></code>	

Attribute scenario / @endTime

Namespace	No namespace	
Type	xs:integer	
Properties	use:	required
Used by	Element	scenario
Source	<code><xs:attribute name="endTime" use="required" type="xs:integer"/></code>	

Attribute scenario / @parentExperimentID

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	scenario
Source	<code><xs:attribute name="parentExperimentID" type="xs:string"/></code>	

Attribute scenario / @parentExperimentRIP

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	scenario
Source	<code><xs:attribute name="parentExperimentRIP" type="xs:string"/></code>	

Attribute scenario / @startTime

Namespace	No namespace	
Type	xs:integer	

Properties	use: required
Used by	Element scenario
Source	<code><xs:attribute name="startTime" use="required" type="xs:integer"/></code>

Attribute experiment / @inherit

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element experiment
Source	<code><xs:attribute name="inherit" type="xs:string"/></code>

Attribute experiment / @name

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element experiment
Source	<code><xs:attribute name="name" use="required" type="xs:string"/></code>

Attribute experimentSuite / @name

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element experimentSuite
Source	<code><xs:attribute name="name" type="xs:string"/></code>

Attribute experimentSuite / @rtsVersion

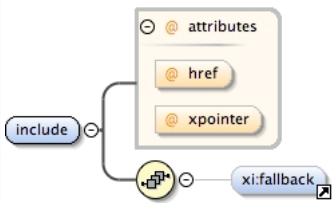
Namespace	No namespace
Type	RtsVersion
Properties	use: required
Facets	maxInclusive 4
	minInclusive 1
Used by	Element experimentSuite
Source	<code><xs:attribute name="rtsVersion" use="required" type="RtsVersion"/></code>

Namespace: "http://www.w3.org/2001/XInclude"**Schema(s)****Imported schema xi.xsd**

Namespace	http://www.w3.org/2001/XInclude
Properties	attribute form default: unqualified
	element form default: qualified

Element(s)**Element xi:include**

Namespace	http://www.w3.org/2001/XInclude
-----------	---------------------------------

Diagram					
Properties	content:	complex			
Used by	Elements	experimentSuite, platform, timeAverage, timeSeries			
Model	xi:fallback{0,1}				
Children	xi:fallback				
Instance	<pre><xi:include href=" " xpointer=" " xmlns:xi="http://www.w3.org/2001/XInclude"> <xi:fallback>{0,1}</xi:fallback> </xi:include></pre>				
Attributes	QName	Type	Fixed	Default	Use
	href				optional
	xpointer				optional
Source	<pre><xs:element name="include"> <xs:complexType> <xs:sequence> <xs:element minOccurs="0" ref="xi:fallback" /> </xs:sequence> <xs:attribute name="href" /> <xs:attribute name="xpointer" /> </xs:complexType> </xs:element></pre>				

Element `xi:fallback`

Namespace	http://www.w3.org/2001/XInclude		
Diagram			
Properties	content:	complex	
Used by	Element	xi:include	
Source	<pre><xs:element name="fallback"> <xs:complexType/> </xs:element></pre>		

Namespace: "http://www.w3.org/XML/1998/namespace"

Schema(s)

Imported schema `xml.xsd`

Namespace	http://www.w3.org/XML/1998/namespace				
Properties	attribute form default:	unqualified			
	element form default:	qualified			

Attribute(s)

Attribute `@xml:base`

Namespace	http://www.w3.org/XML/1998/namespace		
Used by	Element	analysis	
Source	<xs:attribute name="base"/>		