

Summary

Name	Description
AlgorithmInfo	Algorithm attributes.
Benchmark	Benchmark.
Benchmarks	Workspace benchmarks.
AlgorithmResult	Algorithm result info.
BenchmarkResult	Benchmark execution results.
■ BenchmarkResultSet	Collection of benchmark results.
Preference	User preference.
Preferences	Contains the user preferences. These are serialized to properties file in the workspace.
Workspace	Workspace.
PreferencesNames	Preferences names.

Details



AlgorithmInfo

Name	Value	
Description	Entity with an algorithm attributes.	
Visibility	public	

Attributes

private name : String			
Description	Name.		
Stereotypes	Property		
Туре	String		
Getter	true Setter true		
Multiplicity	1		

private shortName : String			
Description	Short name.		
Stereotypes	Property		
Type	String		
Getter	true Setter true		
Multiplicity	1		

private type : String				
Description	Algorithm implementation class name.			
Stereotypes	Property			
Type	String			
Getter	true Setter true			
Multiplicity	1			

private library : String			
Description	Library.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	true
Multiplicity	1		

public AlgorithmInfo ()	
Description	Constructor.

public AlgorithmInfo (alg : Algorithm)			
Parameters	alg		
	Description	Algorithm.	
	Multiplicity	1	
	Туре	Algorithm	
	Direction	inout	
	Java Detail	N/A	
Description	Constructs an Algorimplementation.	Constructs an AlgorithmInfo instance from an algorithm implementation.	

Benchmark

Name	Value
Description	Benchmark.
Visibility	public

private workspace : String			
Description	Workspace.		
Stereotypes	Property		
Туре	String		
Getter	true Setter true		
Multiplicity	1		

private name : String			
Description	Name.		
Stereotypes	Property		
Type	String		
Getter	true Setter false		
Multiplicity	1		

private inputsDir : String			
Description	Input implicational systems directory path.		
Stereotypes	Property		
Туре	String		
Getter	true Setter true		
Multiplicity	1		

private inputFiles : java.util.List			
Description	Input files which will be copied to input dir.		
Stereotypes	Property		
Туре	java.util.List		
Getter	true	Setter	true
Multiplicity	1*		

private algorithmsEntities : List <algorithminfo></algorithminfo>			
Stereotypes	Property		
Type	Algorith:	AlgorithmInfo	
Getter	true	Setter	false
Multiplicity	1*		

public Benchmark ()	
Description	Constructor.

public Benchmark (name : String, algorithms : java.util.List)		
Parameters	name	
	Description	Name.
	Multiplicity	1
	Туре	String
	Direction	inout
	algorithms	
	Description	Algorithms.
	Multiplicity	1*
	Type	java.util.List
	Direction	inout
Description	Constructor.	
Exceptions	IllegalArgumentException if name or algorithms list is empty.	

public getBenchmarkPath (): String	
Description	The benchmark path.
Return Type Description	Benchmark path.

public getOutputDir (): String		
Description	Path of output dir of benchmark.	
Return Type Description	Path.	

Benchmarks

Name	Value
Description	Workspace benchmarks.
Visibility	public

private benchmarks : Benchmark			
Stereotypes	Property		
Туре	Benchmark		
Getter	true	Setter	true
Multiplicity	1*		

public Benchmarks ()		
Description	Constructor.	

public addBenchmark (bench : Benchmark) : void		
Parameters	bench	
	Description	Benchmark to add.
	Multiplicity	1
	Туре	Benchmark
	Direction	inout
Description	Adds a benchmark.	

public getBenchmark (name : String) : Benchmark		
Parameters	name	
	Description Name of benchmark to sea	
	Multiplicity	1
	Туре	String
	Direction	inout
Description	Returns the benchmark with the name passed as parameter.	
Return Type Description	Bechmark found. Null if benchnmark not found.	

public removeBenchmark (name : String) : void		
Parameters	name	
	Description	Name of benchmark to search.
	Multiplicity	1
	Туре	String
	Direction	inout
Description	Returns the benchmark with the name passed as parameter.	

public size () : int	
Description	Returns the benchmarks count.
Return Type Descritpion	Benchmarks count.

AlgorithmResult

Name	Value
Description	Algorithm result info.
Visibility	public

private inputFile : String				
Description	Implicational system input file.			
Stereotypes	Property	Property		
Туре	String			
Getter	true	Setter	false	
Multiplicity	1*			

private outputFile : String			
Description	Implicational system output file.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	false
Multiplicity	1		

private logFile : String			
Description	Log file.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	true
Multiplicity	1		

private size : Integer			
Description	Implicational System size.		
Stereotypes	Property		
Type	Integer		
Getter	true	Setter	false
Multiplicity	1		

private cardinality : Integer			
Description	Implicational System cardinality.		
Stereotypes	Property		
Туре	Integer		
Getter	true	Setter	false
Multiplicity	1		

private executionTime : double			
Description	Execution time.		
Stereotypes	Property		
Type	double		
Getter	true	Setter	true
Multiplicity	1		

private algorithmInfo : AlgorithmInfo				
Description	Info of the executed algorithm.			
Stereotypes	Property	Property		
Type	AlgorithmInfo			
Getter	true	Setter	false	
Multiplicity	1			

private resultSystem : ImplicationalSystem			
Stereotypes	Property		
Туре	ImplicationalSystem		
Getter	true Setter false		
Multiplicity	1		

public AlgorithmResult ()		
Description	Constructor.	
Leaf	false	

public AlgorithmResult (inputFile : String, outputFile : String, algorithmInfo : AlgorithmInfo)				
Parameters	inputFile			
	Description	Input system file.		
	Multiplicity	1		
	Type	String		
	Direction	inout		
	outputFile	outputFile		
	Description	Output system file.		
	Multiplicity	1		
	Type	String		
	Direction	inout		
	outputFile			
	Description	Output system file.		
	Multiplicity	1		
	Type	String		
	Direction	inout		
Description	Constructor.	Constructor.		

public AlgorithmResult (inputFile : String, outputFile : String, algorithm : Algorithm)		
Parameters	inputFile	
	Description	Input system file.
	Multiplicity	1
	Туре	String
	Direction	inout
	outputFile	
	Description	Output system file.
	Multiplicity	1
	Туре	String
	Direction	inout
	algorithm	
	Description	Algorithm.

public AlgorithmResult (inputFile : String, outputFile : String, algorithm : Algorithm)		
	Multiplicity	1
	Туре	Algorithm
	Direction	inout
Description	Constructor.	

BenchmarkResult

Name	Value
Description	Benchmark execution results.
Visibility	public

private benchmarkName : String			
Description	Benchmark name.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	true
Multiplicity	Unspecified		

private date : java.util.Date			
Description	Execution date/time.		
Stereotypes	Property		
Type	java.util.Date		
Getter	true	Setter	true
Multiplicity	1		

private algorithmResults : List <algorithmresult></algorithmresult>			
Description	Algorithm results.		
Stereotypes	Property		
Type	AlgorithmResult		
Getter	true	Setter	true
Multiplicity	0*		

public BenchmarkResult ()	
Description	Constructor.

public BenchmarkResult (benchmarkName : String, algorithmResults : List, timestamp : Date)			
Parameters	benchmarkName		
	Multiplicity	1	
	Type	String	
	Direction	inout	
	algorithmResults		
	Multiplicity	1	
	Type	List	
	Direction	inout	
	timestamp		
	Multiplicity	1	
	Type	Date	
	Direction	inout	
Description	Constructor.	1	

public groupByAlgorithm (): java.util.Map		
Description	Groups the results by algorithm.	
Return Type Description	Results indexed by algorithms.	

<pre>public getOutputDir () : String</pre>		
Description	Description Returns the path dir of results.	
Return Type Description	Path output dir.	

public getStatisticsFileName (): String	
Description Returns the statistics file name.	
Return Type Description.	Statistics file name.

BenchmarkResultSet

Name	Value
Description	Collection of benchmark results.
Visibility	public

Attributes

private name : String			
Description	Benchmark name.		
Stereotypes	Property		
Туре	String		
Getter	true	Setter	true
Multiplicity	1		

private results : BenchmarkResult			
Description	Benchmark results.		
Stereotypes	Property		
Type	BenchmarkResult		
Getter	true	Setter	true
Multiplicity	*		

public BenchmarkResultSet ()	
Description	Constructor.



Name	Value
Description	User preference.
Visibility	public

Attributes

private name : String			
Description	Name.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	true
Multiplicity	1		

private value : String				
Description	Value.			
Stereotypes	Property			
Туре	String			
Allow Empty Name	false			
Getter	true	Setter	true	
Multiplicity	1			

public Preference ()	
Description	Constructor.

public Preference (name : String, value : String)			
Parameters	name		
	Description	Name.	
	Multiplicity	1	
	Туре	String	
	Direction	inout	
	value		
	Description	Value.	
	Multiplicity	1	
	Туре	String	
	Direction	inout	
Description	Constructor.		
Upper	1		
Ordered	false		
Unique	true		
Query	false		

Preferences

Name	Value
Description	Contains the user preferences.
	These are serialized to properties file in the workspace.
Visibility	public

private preferencesList : Preference			
Description	Preferences list.		
Stereotypes	Property		
Type	Preference		
Getter	true	Setter	false
Multiplicity	0*		

private LOGGER : org.slf4j.Logger			
Description	Logger.		
Initial Value	LoggerFactory.getLogger(Preferences.class)		
Туре	org.slf4j.Logger		
Getter	false	Setter	false
Multiplicity	Unspecified		_

public Preferences ()	
Description	Constructor.

public Preferences (p : java.nio.file.Path)		
Parameters	p	
	Description	Preferences file absol
	Multiplicity	Unspecified
	Туре	java.nio.file.Path
	Direction	inout
Description	Builds an instance based on an existent preferences file.	

public getPreference (preference : String) : String		
Parameters	preference	
	Description	Preference name.
	Multiplicity	Unspecified
	Туре	String
	Direction	inout
Description	Value of a preference.	
Return Type Description	Value of a preference.	

public put (name : Object, value : Object) : Object		
Parameters	name	
	Description	Name.
	Multiplicity	1
	Type	Object
	Direction	inout
	value	
	Description	Value.
	Multiplicity	1
	Type	Object
	Direction	inout
Description	Creates or modify a preference.	
Return Type Description	Previous value of modified preference.	
Query	false	

public setPreference (name : String, value : String) : String		
Parameters	name	
	Description	Name of preference.
	Multiplicity	Unspecified
	Туре	String
	Direction	inout
	Java Detail	N/A
	value	
	Description	Value.
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	Java Detail	N/A
Description	Sets the value of a preference. If value is null, remove the preference if exists.	

public setIfNoExist (name : String, value : String) : String			
Parameters	name		
	Description	Name of preference.	
	Multiplicity	1	
	Туре	String	
	Direction	inout	
	value		
	Description	Value.	
	Multiplicity	1	
	Туре	String	
	Direction	inout	
Description	Sets the value of a preference if no exists. If value is null, remove the preference if exists.		

Workspace

Name	Value
Description	Workspace.
Visibility	public

private name : String			
Description	Name.		
Stereotypes	Property		
Туре	String		
Getter	true	Setter	true
Multiplicity	1		

private location : String			
Description	Location.		
Stereotypes	Property		
Туре	String		
Getter	true	Setter	true
Multiplicity	1		

private preferences : Preferences			
Description	Preferences.		
Stereotypes	Property		
Туре	Preferences		
Getter	true	Setter	true
Multiplicity	1		

public Workspace (name	e: String, location: String)	
Parameters	name	
	Multiplicity	1
	Туре	String
	Direction	inout
	location	
	Multiplicity	1
	Туре	String
	Direction	inout
Description	Constructor.	

public Workspace ()	
Description	Constructor.

PreferencesNames

Name	Value
Description	Preferences names.
Visibility	public
Stereotypes	Interface

public LANGUAGE : String				
Description	Language pro	Language prefrerence name.		
Initial Value	"language"	"language"		
Туре	String	String		
Getter	false	Setter	false	
Derived	false			
Multiplicity	1			

public ALGORITHMS_FILE : String			
Description	Language prefrerence name.		
Initial Value	"algorithms.file"		
Туре	String		
Getter	false	Setter	false
Multiplicity	1		

public DEFAULT_OUTPUT_DIR : String			
Description	Default output dir.		
Initial Value	"output.dir.default"		
Туре	String		
Getter	false	Setter	false
Multiplicity	1		

public DEFAULT_INPUT_DIR : String			
Description	Default input dir.		
Initial Value	"input.dir.default"		
Туре	String		
Getter	false	Setter	false
Multiplicity	1		

public ALGORITHMS_PATH : String			
Description	Algorihtms libraries path.		
Initial Value	"algorithms.path"		
Type	String		
Getter	false	Setter	false
Multiplicity	1		