# Overview

| Class | Fail | Error | Skip | Success | Total |
|---|---|---|---|---|---|
| test.lib.model.testCluster.TestLib1ModelCluster | 0 | 0 | 0 | 8 | 8 |
| test.lib.model.testNaive.TestLib1ModelNaive | 0 | 0 | 0 | 3 | 3 |
| test.lib.model.testNeighbor.TestLib1ModelNeighbor | 0 | 0 | 0 | 3 | 3 |
| test.lib.model.testNeural.TestLib1ModelNeural | 0 | 0 | 0 | 1 | 1 |
| test.lib.model.testReg.TestLib1ModelReg | 0 | 0 | 0 | 9 | 9 |
| test.lib.model.testSvm.TestLib1ModelSvm | 0 | 0 | 0 | 4 | 4 |
| test.lib.model.testTree.TestLib1ModelTree | 0 | 12 | 0 | 1 | 13 |
| test.lib.prob.testDist.TestLib1ProbDist | 0 | 0 | 0 | 16 | 16 |
| test.lib.stat.testChange.TestLib1StatChange | 0 | 0 | 0 | 5 | 5 |
| test.lib.stat.testSample.TestLib1StatSample | 0 | 0 | 0 | 28 | 28 |
| test.lib.stat.testTest.TestLib1TestTest | 0 | 0 | 0 | 5 | 5 |
| test.lib.testArray.TestLib1Array | 0 | 0 | 0 | 65 | 65 |
| test.lib.testBytes.TestLib1Bytes | 0 | 0 | 0 | 23 | 23 |
| test.lib.testCast.TestLib1Cast | 0 | 0 | 0 | 13 | 13 |
| test.lib.testCore.TestLib1Core | 0 | 0 | 0 | 26 | 26 |
| test.lib.testEnum.TestLib1Enum | 0 | 0 | 0 | 3 | 3 |
| test.lib.testFixed.TestLib1Fixed | 0 | 0 | 0 | 2 | 2 |
| test.lib.testImpute.TestLib1Impute | 0 | 0 | 0 | 7 | 7 |
| test.lib.testInterp.TestLib1Interp | 0 | 0 | 0 | 8 | 8 |
| test.lib.testKernel.TestLibKernel | 0 | 0 | 0 | 4 | 4 |
| test.lib.testLa.TestLib1La | 0 | 0 | 0 | 30 | 30 |
| test.lib.testLink.TestLib1Link | 0 | 0 | 0 | 9 | 9 |
| test.lib.testMap.TestLib1Map | 0 | 0 | 0 | 38 | 38 |
| test.lib.testMath.TestLib1Math | 0 | 0 | 0 | 25 | 25 |
| test.lib.testMetric.TestLib1Metric | 0 | 0 | 0 | 17 | 17 |
| test.lib.testParse.TestLib1Parse | 0 | 0 | 0 | 4 | 4 |
| test.lib.testRand.TestLib1Rand | 0 | 0 | 0 | 13 | 13 |
| test.lib.testRegex.TestLib1Regex | 0 | 17 | 0 | 0 | 17 |
| test.lib.testSpec.TestLib1Spec | 0 | 0 | 0 | 5 | 5 |
| test.lib.testString.TestLib1String | 0 | 0 | 0 | 24 | 24 |
| test.lib.testTime.TestLib1Time | 0 | 0 | 0 | 18 | 18 |
| test.pmml.testBasic.TestBasic | 0 | 0 | 0 | 10 | 10 |
| test.pmml.testTree.TestTree | 0 | 1 | 0 | 0 | 1 |
| test.prettypfa.testClustering.TestClustering | 0 | 0 | 0 | 6 | 6 |
| test.prettypfa.testCounters.TestClustering | 0 | 2 | 0 | 0 | 2 |
| test.prettypfa.testParsing.TestPrettyPfaParsing | 0 | 0 | 0 | 19 | 19 |
| test.prettypfa.testTutorial.TestTutorial | 1 | 2 | 0 | 28 | 31 |
| test.producer.testCart.TestProducerCart | 0 | 4 | 0 | 0 | 4 |
| test.producer.testKMeans.TestProducerKMeans | 0 | 0 | 0 | 3 | 3 |
| test.testAstToJson.TestAstToJson | 0 | 0 | 0 | 39 | 39 |
| test.testDatatype.TestDataType | 0 | 0 | 0 | 14 | 14 |
| test.testDumpstate.TestDumpstate | 0 | 0 | 0 | 24 | 24 |
| test.testGenpy.TestGeneratePython | 0 | 0 | 0 | 136 | 136 |
| test.testJsonToAst.TestJsonToAst | 0 | 0 | 0 | 38 | 38 |
| test.testSignature.TestSignature | 0 | 0 | 0 | 8 | 8 |
| test.testTypeCheck.TestTypeCheck | 0 | 0 | 0 | 24 | 24 |
| **Total** | 1 | 38 | 0 | 766 | 805 |

# Failure details

## test.lib.model.testTree.TestLib1ModelTree (0 failures, 12 errors)

**testBeOkayForSimpleTestIfTheTypesMatch: builtins.TypeError**

**testDoSetInclusion: builtins.TypeError**

**testEvaluateAChainOfComparisons: builtins.TypeError**

**testMissingWalk: builtins.TypeError**

**testNotActLikeSimpleTestWhenNothingIsMissing: builtins.TypeError**

**testNumericalComparisons: builtins.TypeError**

**testOtherComparisons: builtins.TypeError**

**testPassThroughMissingValues: builtins.TypeError**

**testSimpleTree: builtins.TypeError**

**testStringComparisons: builtins.TypeError**

**testWorkForATypicalExample: builtins.TypeError**

**testWorkForSameExampleUnionOrderSwitched: builtins.TypeError**

## test.lib.testRegex.TestLib1Regex (0 failures, 17 errors)

testContains: **builtins.ImportError**

testCount: **builtins.ImportError**

testGroups: **builtins.ImportError**

testIndex: **builtins.ImportError**

testMemory: **builtins.ModuleNotFoundError**

testPosix: **builtins.ImportError**

testfindAll: **builtins.ImportError**

testfindFirst: **builtins.ImportError**

testfindGroupsAll: **builtins.ImportError**

testfindGroupsFirst: **builtins.ImportError**

testgroupsAll: **builtins.ImportError**

testindexAll: **builtins.ImportError**

testrIndex: **builtins.ImportError**

**testreplaceAll: builtins.ImportError**

**testreplaceFirst: builtins.ImportError**

**testreplaceLast: builtins.ImportError**

**testsplit: builtins.ImportError**

## test.pmml.testTree.TestTree (0 failures, 1 errors)

**testSimpleTree: builtins.TypeError**

## test.prettypfa.testCounters.TestClustering (0 failures, 2 errors)

**testHistogram2d: builtins.TypeError**

**testTop5List: builtins.TypeError**

## test.prettypfa.testTutorial.TestTutorial (1 failures, 2 errors)

**testModels_2: builtins.TypeError**

**testTutorial2_11: builtins.AssertionError**

**testTutorial3_4: builtins.TypeError**

## test.producer.testCart.TestProducerCart (0 failures, 4 errors)

**testCartMustBuildCategoricalCategorical: builtins.TypeError**

**testCartMustBuildCategoricalNumerical: builtins.TypeError**

**testCartMustBuildNumericalCategorical: builtins.TypeError**

**testCartMustBuildNumericalNumerical: builtins.TypeError**

## All tests

### test.lib.model.testCluster.TestLib1ModelCluster (0 failures, 0 errors)

- testCreateSomeRandomSeeds
- testFindClosestCluster
- testFindClosestClusterSimplifiedSignature
- testFindClosestClusterWithStrings
- testFindClosestNClusters
- testFindClosestNClustersSimplifiedSignature
- testFindClosestNClustersWithStrings
- testPerformStandardKMeans

### test.lib.model.testNaive.TestLib1ModelNaive (0 failures, 0 errors)

- testNaiveBernoulli
- testNaiveGaussian
- testNaiveMultinomial

### test.lib.model.testNeighbor.TestLib1ModelNeighbor (0 failures, 0 errors)

- testAverageOfSomePoints
- testFindAllNeighborsInABall
- testFindKNearestNeighbors

### test.lib.model.testNeural.TestLib1ModelNeural (0 failures, 0 errors)

- testRegNeural

### test.lib.model.testReg.TestLib1ModelReg (0 failures, 0 errors)

- testGaussianProcess1

- testGaussianProcess2
- testGaussianProcess3
- testGaussianProcess4
- testRegLinear
- testRegLinearVariance1
- testRegLinearVariance2
- testRegLinearVariance3
- testRegLinearVariance4

## test.lib.model.testSvm.TestLib1ModelSvm (0 failures, 0 errors)

- testSvmLinearKernel
- testSvmPolyKernel
- testSvmRBFKernel
- testSvmSigmoidKernel

## test.lib.model.testTree.TestLib1ModelTree (0 failures, 12 errors)

- testBeOkayForSimpleTestIfTheTypesMatch
- testDoSetInclusion
- testEvaluateAChainOfComparisons
- testMissingWalk
- testNotActLikeSimpleTestWhenNothingIsMissing
- testNumericalComparisons
- testOtherComparisons
- testPassThroughMissingValues
- testSimpleTree
- testStringComparisons
- testWorkForATypicalExample
- testWorkForSameExampleUnionOrderSwitched
- testWorkWithACompletelyUserDefinedPredicate

## test.lib.prob.testDist.TestLib1ProbDist (0 failures, 0 errors)

- testBetaDistribution
- testBinomialDistribution
- testCauchyDistribution
- testChi2Distribution
- testExponentialDistribution
- testFDistribution
- testGammaDistribution
- testGeometricDistribution
- testHypergeometricDistribution
- testLogNormalDistribution
- testNegativeBinomialDistribution
- testNormalDistribution
- testPoissonDistribution
- testStudentTDistribution
- testUniformDistribution
- testWeibullDistribution

## test.lib.stat.testChange.TestLib1StatChange (0 failures, 0 errors)

- testComputeZValues
- testDoARealCUSUMExample
- testDoAShewhartExample
- testTriggerOnHandMadeValues
- testUpdateCUSUM

## test.lib.stat.testSample.TestLib1StatSample (0 failures, 0 errors)

- testAccumulateACounter
- testAccumulateAMean
- testAccumulateAVariance
- testAccumulateAnEWMA
- testFillACounter
- testFillAGrowableHistogram
- testFillAHistogramWithOverflowCounters
- testFillAHistogramWithoutInfflow
- testFillASimpleHistogram
- testFillATwoDimensionalHistogram
- testFillATwoDimensionalHistogramWithOverflowBins
- testFillAVariableBinWidthHistogram
- testHandleErrorCases
- testHoltWintersAccumulateATrend
- testHoltWintersForecastATrend
- testHoltWintersPeriodicAccumulateAMultiplicativeTrend
- testHoltWintersPeriodicAccumulateAnAdditiveTrend
- testHoltWintersPeriodicForecastAMultiplicativeTrend
- testHoltWintersPeriodicForecastAnAdditiveTrend
- testMaintainATop5List
- testMaintainATop5ListOfStrings
- testUpdateCovarianceAccumulateUsingArrays
- testUpdateCovarianceAccumulateUsingMaps
- testUpdateWindowAccumulateACounter
- testUpdateWindowAccumulateAMean
- testUpdateWindowAccumulateAMeanWithASuddenWindowShrink
- testUpdateWindowAccumulateAVariance
- testUpdateWindowAccumulateAVarianceWithASuddenWindowShrink

## test.lib.stat.testTest.TestLib1TestTest (0 failures, 0 errors)

- testKSTwoSample
- testRegChi2
- testRegMahalanobis
- testRegPull
- testRegResidual

## test.lib.testArray.TestLib1Array (0 failures, 0 errors)

- testAll
- testAny
- testAppend

- testConcat
- testCorresponds
- testCorrespondsWithIndex
- testCycle
- testDiff
- testDisjoint
- testDistinct
- testDoContains
- testDoCount
- testDoCountPredicate
- testDoEndswith
- testDoHeadTailLastInit
- testDoIndex
- testDoStartsWith
- testDropWhile
- testFilter
- testFilterMap
- testFilterMapWithIndex
- testFilterWithIndex
- testFindNumericalArgmaxArgmin
- testFindNumericalMaxMin
- testFindObjectArgminArgmax
- testFindObjectMaxMin
- testFindTheTop3NumericalArgmaxArgmin
- testFindTheTop3NumericalMaxMin
- testFindTheTop3ObjectArgmaxArgmin
- testFindTheTop3ObjectMaxMin
- testFindTheTop3UserDefinedArgmaxArgmin
- testFindTheTop3UserDefinedMaxMin
- testFindUserDefinedArgmaxArgmin
- testFindUserDefinedMaxMin
- testFlatMap
- testFlatMapWithIndex
- testFlatten
- testFold
- testGetLength
- testGetSubseq
- testGroupby
- testIndex
- testIntersection
- testLnsum
- testMap
- testMapWithIndex
- testMedian
- testNTile
- testPermutations
- testProduct
- testReduce
- testRemove
- testReplace
- testReverse
- testRotate
- testSetEq
- testSetSubseqto
- testSlidingWindow
- testSort
- testSortWithAUserDefinedFunction
- testSubset
- testSum
- testTakeWhile
- testUnion

- testZipMap

## test.lib.testBytes.TestLib1Bytes (0 failures, 0 errors)

- testCheckAscii
- testCheckLatin1
- testCheckUtf16
- testCheckUtf16be
- testCheckUtf16le
- testCheckUtf8
- testConvertFromBase64
- testConvertToBase64
- testDecodeAscii
- testDecodeLatin1
- testDecodeUtf16
- testDecodeUtf16be
- testDecodeUtf16le
- testDecodeUtf8
- testEncodeAscii
- testEncodeLatin1
- testEncodeUtf16
- testEncodeUtf16be
- testEncodeUtf16le
- testEncodeUtf8
- testGetLength
- testGetSubseq
- testGetSubseqTo

## test.lib.testCast.TestLib1Cast (0 failures, 0 errors)

- testCastAvro
- testCastJson
- testFanoutBoolean
- testFanoutDouble
- testFanoutFloat
- testFanoutInt
- testFanoutLong
- testSigned
- testToDouble
- testToFloat
- testToInt
- testToLong
- testUnsigned

## test.lib.testCore.TestLib1Core (0 failures, 0 errors)

- testAdditionIntOverflows
- testAdditionLongOverflows
- testBitwiseOperators
- testDoAddition
- testDoCmp
- testDoExponentiation
- testDoMax

- testDoMin
- testDoMultiplication
- testDoSubtraction
- testFloatingPointDivision
- testHandleNegativeIntOverflows
- testHandleNegativeLongOverflows
- testHandleSubtractionIntOverflows
- testHandleSubtractionLongOverflows
- testIntegerDivision
- testInterpretPercentAsAModuloOperatorNotADivisionRemainder
- testInterpretPercentPercentAsADivisionRemainderNotAModuloOperator
- testKleeneAnd
- testLogicalOperators
- testMultiplicationIntOverflows
- testMultiplicationLongOverflows
- testNegationsWithTheRightOverflowHandling
- testRejectComparisonsBetweenDifferentTypesEvenIfTheyHaveTheSameStructure
- testSpecificNonNumericOperators
- testSpecificNumericalOperators

## test.lib.testEnum.TestLib1Enum (0 failures, 0 errors)

- testNumSymbols
- testToInt
- testToString

## test.lib.testFixed.TestLib1Fixed (0 failures, 0 errors)

- testFromBytes
- testToBytes

## test.lib.testImpute.TestLib1Impute (0 failures, 0 errors)

- testDefaultOnNonNum
- testDefaultOnNull
- testErrorOnNonNum
- testErrorOnNull
- testIsInf
- testIsNan
- testIsNum

## test.lib.testInterp.TestLib1Interp (0 failures, 0 errors)

- testBin
- testLinearScalars
- testLinearScalarsFlat
- testLinearScalarsMissing
- testLinearVectors
- testNearestAbstractMetric
- testNearestPick1d
- testNearestPickNd

## test.lib.testKernel.TestLibKernel (0 failures, 0 errors)

- testLinear
- testPoly
- testRBF
- testSigmoid

## test.lib.testLa.TestLib1La (0 failures, 0 errors)

- testAccumulateACovarianceAndComputeEigenbasisUsingArrays
- testAccumulateACovarianceAndUseThatToUpdateAPCAMatrixUsingArrays
- testAddArrays
- testAddMaps
- testComputeADeterminantFromArrays
- testComputeADeterminantFromMaps
- testComputeAPseudoInverseFromArrays
- testComputeAPseudoInverseFromMaps
- testComputeATraceFromArrays
- testComputeATraceFromMaps
- testComputeAnEigenBasisFromArrays
- testComputeAnEigenBasisFromMaps
- testMapArrays
- testMapMaps
- testMultiplyAMatrixAndAVectorAsArrays
- testMultiplyAMatrixAndAVectorAsMaps
- testMultiplyMatricesAsArrays
- testMultiplyMatricesAsMaps
- testScaleArrays
- testScaleMaps
- testSubArrays
- testSubMaps
- testSymmetricMatricesAsArrays
- testSymmetricMatricesAsMaps
- testTransposeArrays
- testTransposeMaps
- testTruncateAMatrixUsingArrays
- testTruncateAMatrixUsingMaps
- testZipapArrays
- testZipmapMaps

## test.lib.testLink.TestLib1Link (0 failures, 0 errors)

- testCauchit
- testCloglog
- testLogit
- testLoglog
- testProbit
- testReLu
- testSoftPlus
- testSoftmax
- testtanh

## test.lib.testMap.TestLib1Map (0 failures, 0 errors)

- testAddKeyValuePairs
- testCheckContainsKey
- testCorresponds
- testCorrespondsWithKey
- testDiff
- testDisjoint
- testEliminateOnlyCertainKeys
- testFilter
- testFilterMap
- testFilterMapWithKey
- testFilterWithKey
- testFindTop3NumericalArgmaxArgmin
- testFindTop3ObjectArgmaxArgmin
- testFindTop3UserDefinedArgmaxArgmin
- testFlatMap
- testFlatMapWithKey
- testFromSet
- testGetKeys
- testGetLength
- testGetValues
- testIn
- testIntersection
- testJoin
- testKeepOnlyCertainKeys
- testMap
- testMapWithKey
- testNumericalArgmaxArgmin
- testObjectArgmaxArgmin
- testRemoveKeys
- testSplit
- testSubset
- testSymDiff
- testToSet
- testUnion
- testUpdateWithAnOverlay
- testUserDefinedArgmaxArgmin
- testZipMap
- testZipMapWithKey

## test.lib.testMath.TestLib1Math (0 failures, 0 errors)

- testArbitraryBaseLog
- testCeil
- testCopysign
- testCos
- testCosh
- testDoAbs
- testDoAcos
- testDoAsin
- testDoAtan
- testDoAtan2
- testExp
- testExpm1
- testFloor
- testHypot

- testLn
- testLog10
- testProvideConstants
- testRint
- testRound
- testSignum
- testSin
- testSinh
- testSqrt
- testTan
- testTanh

## test.lib.testMetric.TestLib1Metric (0 failures, 0 errors)

- testBinaryMetricsDoBinarySimilarity
- testBinaryMetricsDoJaccard
- testBinaryMetricsDoSimpleMatching
- testBinaryMetricsDoTanimoto
- testChebyshevWork
- testEuclideanWork
- testEuclideanWorkWithCategoricalInputs
- testEuclideanWorkWithGaussianSimilarity
- testEuclideanWorkWithIntegers
- testEuclideanWorkWithIntegers2
- testEuclideanWorkWithMissingValueWeights
- testEuclideanWorkWithMissingValues
- testMinkowskiReproduceChebyshev
- testMinkowskiReproduceTaxicab
- testSimpleEuclideanWork
- testSquaredEuclideanWork
- testTaxicabWork

## test.lib.testParse.TestLib1Parse (0 failures, 0 errors)

- testParseDouble
- testParseFloat
- testParseInt
- testParseLong

## test.lib.testRand.TestLib1Rand (0 failures, 0 errors)

- testBytes
- testChoice
- testChoicesWithReplacement
- testDouble
- testFloat
- testGaussian
- testHistogram
- testHistogram2
- testInt
- testLong
- testSampleWithoutReplacement
- testString

- testUUID

## test.lib.testRegex.TestLib1Regex (0 failures, 17 errors)

- testContains
- testCount
- testGroups
- testIndex
- testMemory
- testPosix
- testfindAll
- testfindFirst
- testfindGroupsAll
- testfindGroupsFirst
- testgroupsAll
- testindexAll
- testrIndex
- testreplaceAll
- testreplaceFirst
- testreplaceLast
- testsplit

## test.lib.testSpec.TestLib1Spec (0 failures, 0 errors)

- testErfFcn
- testErfcFcn
- testLnGammaFcn
- testLogBetaFcn
- testNChooseKFcn

## test.lib.testString.TestLib1String (0 failures, 0 errors)

- testDoContains
- testDoCount
- testDoEndswith
- testDoHex
- testDoIndex
- testDoJoin
- testDoJoin2
- testDoLStrip
- testDoLower
- testDoNumber
- testDoRIndex
- testDoRStrip
- testDoReplaceAll
- testDoReplaceFirst
- testDoReplaceLast
- testDoSplit
- testDoStartswith
- testDoStrip
- testDoTranslate
- testDoUpper
- testGetLength

- testGetSubstring
- testGetSubstringTo
- testRepeat

## test.lib.testTime.TestLib1Time (0 failures, 0 errors)

- testDayOfMonth
- testDayOfWeek
- testDayOfYear
- testHourOfDay
- testIsDayOfMonth
- testIsDayOfWeek
- testIsDayOfYear
- testIsHourOfDay
- testIsMinuteOfHour
- testIsMonthOfYear
- testIsSecondOfMinute
- testIsWeekend
- testIsWorkHours
- testMakeTimestamp
- testMinuteOfHour
- testMonthOfYear
- testSecondOfMinute
- testYear

## test.pmml.testBasic.TestBasic (0 failures, 0 errors)

- testApply
- testApplyMin2
- testApplyMin3
- testBaselineZScore
- testConstant
- testDefineFunction
- testEmpty
- testLocalTransformations
- testTransformationDictionary
- testTreeModel

## test.pmml.testTree.TestTree (0 failures, 1 errors)

- testSimpleTree

## test.prettypfa.testClustering.TestClustering (0 failures, 0 errors)

- testDistanceToClosestCluster
- testNormalized
- testPopulationOfClosestCluster
- testSimpleKMeansEmitExample
- testSimpleKMeansWithEnums
- testSimpleKMeansWithStrings

## test.prettypfa.testCounters.TestClustering (0 failures, 2 errors)

- testHistogram2d
- testTop5List

## test.prettypfa.testParsing.TestPrettyPfaParsing (0 failures, 0 errors)

- testAssignments
- testCells
- testControl
- testExpressionBlock
- testExtraction
- testFcndef
- testFcnref
- testFunctions
- testLiteralNumbers
- testLiteralString
- testLiterals
- testNew
- testPools
- testPrecedence
- testStructure
- testTypeExpressions
- testTypedefs
- testWeirdFunctions
- testWhitespace

## test.prettypfa.testTutorial.TestTutorial (1 failures, 2 errors)

- testModels_1
- testModels_2
- testModels_3
- testModels_4
- testTutorial1_1
- testTutorial1_2
- testTutorial1_3
- testTutorial1_4
- testTutorial1_5
- testTutorial1_6
- testTutorial1_7
- testTutorial2_10
- testTutorial2_11
- testTutorial2_12
- testTutorial2_13
- testTutorial2_14
- testTutorial2_15
- testTutorial2_2
- testTutorial2_3
- testTutorial2_4
- testTutorial2_5
- testTutorial2_6
- testTutorial2_7
- testTutorial2_8
- testTutorial2_9
- testTutorial3_1

- testTutorial3_2
- testTutorial3_3
- testTutorial3_4
- testTutorial3_5
- testTutorial3_6

## test.producer.testCart.TestProducerCart (0 failures, 4 errors)

- testCartMustBuildCategoricalCategorical
- testCartMustBuildCategoricalNumerical
- testCartMustBuildNumericalCategorical
- testCartMustBuildNumericalNumerical

## test.producer.testKMeans.TestProducerKMeans (0 failures, 0 errors)

- testKMeans
- testKMeansTransform
- testSuperSimple

## test.testAstToJson.TestAstToJson (0 failures, 0 errors)

- testAttrGet
- testAttrSet
- testBase64
- testBoolean
- testCallFunction
- testCallWithFcn
- testCallWithFcnDef
- testCast
- testCell
- testCellGet
- testCellSet
- testCond
- testDefineFunction
- testDo
- testDoUntil
- testDoc
- testDouble
- testEngineConfig
- testError
- testFloat
- testFor
- testForeach
- testForkeyval
- testIf
- testInt
- testLet
- testLiteral
- testLog
- testLong
- testNewArray
- testNewRecord
- testNull

- testPool
- testPoolGet
- testPoolSet
- testRef
- testSet
- testString
- testWhile

## test.testDatatype.TestDataType (0 failures, 0 errors)

- testDistinguishBooleanFromNumbers
- testDistinguishBytesStringEnumFixed
- testHaveTypeSafeNull
- testIdentifyNestedRecordDefinitions
- testPromoteNumbers
- testPromoteNumbersInRecord
- testPromoteNumbersTypeVariantArray
- testPromoteNumbersTypeVariantMap
- testReCallableAndAccumulateTypes
- testReadSimpleTypes
- testResolveDependentRecordsInAnyOrder
- testResolveDependentRecordsWithNamespaces
- testResolveRecursivelyDefinedRecords
- testResolveUnions

## test.testDumpstate.TestDumpstate (0 failures, 0 errors)

- testPrivateCellsArray
- testPrivateCellsInt
- testPrivateCellsMap
- testPrivateCellsRecord
- testPrivateCellsString
- testPrivateCellsUnion
- testPrivatePoolsArray
- testPrivatePoolsInt
- testPrivatePoolsMap
- testPrivatePoolsRecord
- testPrivatePoolsString
- testPrivatePoolsUnion
- testPublicCellsArray
- testPublicCellsInt
- testPublicCellsMap
- testPublicCellsRecord
- testPublicCellsString
- testPublicCellsUnion
- testPublicPoolsArray
- testPublicPoolsInt
- testPublicPoolsMap
- testPublicPoolsRecord
- testPublicPoolsString
- testPublicPoolsUnion

## test.testGenpy.TestGeneratePython (0 failures, 0 errors)

- testBeginAndEnd
- testButPassingTallyInIsFine
- testCallFunctions
- testCallFunctions2
- testCallGraph
- testCallUserFunction
- testCellRollback
- testChangeADeepObject
- testChangeADeepObjectWithFcnDef
- testChangeADeepObjectWithFcnRef
- testChangeAnOnTheFlyGeneratedObject
- testChangeDeepPrivateCells
- testChangeDeepPrivateCellsWithFcnDef
- testChangeDeepPrivateCellsWithFcnRef
- testChangeDeepPrivatePools
- testChangeDeepPrivatePoolsWithFcnDef
- testChangeDeepPrivatePoolsWithFcnRef
- testChangeDeepPublicCells
- testChangeDeepPublicCellsWithFcnDef
- testChangeDeepPublicCellsWithFcnRef
- testChangeDeepPublicPools
- testChangeDeepPublicPoolsWithFcnDef
- testChangeDeepPublicPoolsWithFcnRef
- testChangePrivateCells
- testChangePrivateCellsWithFcnDef
- testChangePrivateCellsWithFcnRef
- testChangePrivatePools
- testChangePrivatePoolsWithFcnDef
- testChangePrivatePoolsWithFcnRef
- testChangePublicCells
- testChangePublicCellsWithFcnDef
- testChangePublicCellsWithFcnRef
- testChangePublicPools
- testChangePublicPoolsWithFcnDef
- testChangePublicPoolsWithFcnRef
- testComplexLiterals
- testCondExpressions
- testCorrectlyUseMerge
- testDefineFunctions
- testDoc
- testEmitInUserFunctions
- testError
- testExtractDeepPrivateCells
- testExtractDeepPublicCells
- testExtractDeepPublicPools
- testExtractDeepPublicPools2
- testExtractDeepWithinAnObject
- testExtractFromAnOnTheFlyGeneratedObject
- testExtractPrivateCells
- testExtractPrivatePools
- testExtractPublicCells
- testExtractPublicPools
- testFcnRefFillLibraryFunctions
- testFcnRefFillUserFunctions
- testForLoops
- testForeachLoops
- testForkeyvalLoops
- testHandleATypicalUseCase
- testHandleNestedScopes
- testHandleNullCases
- testHandleNullCases2

- testHandleNullCases3
- testHandleNullCases4
- testIdentifyTypeErrors1
- testIdentifyTypeErrors2
- testIfExpressions
- testIfNotNull
- testLiteralBase64
- testLiteralBoolean
- testLiteralDouble
- testLiteralFloat
- testLiteralInt
- testLiteralLong
- testLiteralNull
- testLiteralString
- testMetadataAccessMetadata
- testMetadataAccessName
- testMetadataAccessVersion
- testMetadataCountSuccessfulAndUnsuccessfulActionsInAFoldTypeEngine
- testMetadataCountSuccessfulAndUnsuccessfulActionsInAMapTypeEngine
- testMetadataCountSuccessfulAndUnsuccessfulActionsInAnEmitTypeEngine
- testMetadataRefuseToChangeName
- testMinimallyWork
- testMinimallyWorkForEmitTypeEngines
- testMinimallyWorkForFoldTypeEngines
- testNewArray
- testNewMap
- testNewRecord
- testNotAcceptBadIndexTypes
- testNotAcceptBadIndexTypes2
- testNotAcceptBadIndexTypes3
- testNotAcceptBadIndexes
- testNotAcceptBadIndexes2
- testNotAcceptBadIndexes3
- testNotFindNonExistentCells
- testNotFindNonExistentPools
- testPackByteArraysAsLengthPrefixed
- testPackByteArraysAsNullTerminated
- testPackByteArraysAsRaw
- testPackByteArraysAsRaw3
- testPackSignedBigEndian
- testPackSignedLittleEndian
- testPackUnsignedBigEndian
- testPackUnsignedLittleEndian
- testPoolRollback
- testProperlyDealWithTheExceptionType
- testRecordWithInlineTypes
- testRefuseSituationsThatCouldLeadToDeadlock
- testRefuseTallyInUserFunctions
- testRemovePrivatePoolItems
- testRemovePublicPoolItems
- testStopIntRunningProcess
- testTryCatchWithFiltering
- testTryCatchWithFiltering2
- testTryCatchWithoutFiltering
- testTypeCastBlocks
- testUnpackBoolean
- testUnpackByte
- testUnpackDouble
- testUnpackFloat
- testUnpackInt
- testUnpackLengthPrefixed

- testUnpackLong
- testUnpackMultipleWithLengthPrefixed
- testUnpackMultipleWithRaw
- testUnpackMultipleWithToNull
- testUnpackNotBreakOtherVariables
- testUnpackNull
- testUnpackRaw
- testUnpackShort
- testUnpackToNull
- testUpcast
- testVariableDeclarations
- testVariableReassignment
- testWhileLoops
- testWriteToLogs

## test.testJsonToAst.TestJsonToAst (0 failures, 0 errors)

- testAttrGet
- testAttrSet
- testBase64
- testBoolean
- testCallFunction
- testCallWithFcn
- testCallWithFcnDef
- testCast
- testCell
- testCellGet
- testCellSet
- testCond
- testDefineFunction
- testDo
- testDoUntil
- testDoc
- testDouble
- testEngineConfig
- testError
- testFloat
- testFor
- testForeach
- testForkeyval
- testIf
- testInt
- testLet
- testLiteral
- testLog
- testLong
- testNewArray
- testNewRecord
- testNull
- testPoolGet
- testPoolSet
- testRef
- testSet
- testString
- testWhile

## test.testSignature.TestSignature (0 failures, 0 errors)

- testLooselyMatchFunctionReferences
- testMatchNestedWildcards
- testMatchWildRecords
- testMatchWildcards
- testNotMatchAntiPatterns
- testPassThroughExactParameterMatches
- testPromoteNumbers
- testUseWildcardsToNormalizeNumericalTypes

## test.testTypeCheck.TestTypeCheck (0 failures, 0 errors)

- testAttr
- testAttrTo
- testCallPatterns
- testCastCase
- testCell
- testCellTo
- testCond
- testDo
- testDoUntil
- testDocErrorLog
- testFor
- testForeach
- testForkeyval
- testIf
- testIfNotNull
- testLet
- testLiterals
- testNew
- testPool
- testPoolTo
- testRef
- testSet
- testUpcast
- testWhile