1. **Test environment**

|  |  |
| --- | --- |
| Hardware Information | SG2042 |
| Architecture | RISC-V64 |
| operating system | openEuler 24.03 (LTS) |
| Java version | 17 |
| GCC Version | 12.3.1 |
| G++ Version | 12.3.1 |
| mahout version | 0.13.0 |
| Kernel version | 6.6.0 |
| Perf Version | 6.6.0 |

1. **test**

**Patch the apache directory**

|  |
| --- |
| sudo patch -p0 < mahout\_test.patch |

**Enter the mahout directory**

|  |
| --- |
| cd / mahout |

1. 1 : hdfs\_VarintTest

Enter the test case directory:

|  |
| --- |
| cd / core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=RandomUtilsTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.common.RandomUtilsTest  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.218 s - in org.apache.mahout.common.RandomUtilsTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 01:06 min |

1. Test case 2: AlternatingLeastSquaresSolverTest

Enter the test case directory:

|  |
| --- |
| cd / core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=AlternatingLeastSquaresSolverTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.als.AlternatingLeastSquaresSolverTest  [INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.51 s - in org.apache.mahout.math.als.AlternatingLeastSquaresSolverTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.052 s |

1. Test case 3: TestHebbianSolver

Enter the test case directory:

|  |
| --- |
| cd / core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestHebbianSolver |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.decomposer.hebbian.TestHebbianSolver  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.623 s - in org.apache.mahout.math.decomposer.hebbian.TestHebbianSolver  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.485 s |

1. Test case 4: MersenneTwisterTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MersenneTwisterTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.jet.random.engine.MersenneTwisterTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.172 s - in org.apache.mahout.math.jet.random.engine.MersenneTwisterTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.494 s |

1. Test case 5: ExponentialTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=ExponentialTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.jet.random.ExponentialTest  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.574 s - in org.apache.mahout.math.jet.random.ExponentialTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.058 s |

1. Test case 6: GammaTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=GammaTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.jet.random.GammaTest  [INFO] Running org.apache.mahout.math.jet.stat.GammaTest  [INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.254 s - in org.apache.mahout.math.jet.stat.GammaTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.712 s - in org.apache.mahout.math.jet.random.GammaTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 8, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 50.954 s |

1. Test case 7: NegativeBinomialTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=NegativeBinomialTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.jet.random.NegativeBinomialTest  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.227 s - in org.apache.mahout.math.jet.random.NegativeBinomialTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.505 s |

1. Test case eight: NormalTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=NormalTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.NormalTest  [INFO] Running org.apache.mahout.math.jet.random.NormalTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.207 s - in org.apache.mahout.math.random.NormalTest  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.304 s - in org.apache.mahout.math.jet.random.NormalTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.127 s |

1. Test case nine: ProbabilityTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=ProbabilityTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.jet.stat.ProbabilityTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.21 s - in org.apache.mahout.math.jet.stat.ProbabilityTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 50.259 s |

1. Test case 10: ObjectArrayListTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=ObjectArrayListTest |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.list.ObjectArrayListTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.172 s - in org.apache.mahout.math.list.ObjectArrayListTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.127 s |

1. Test case 11: ChineseRestaurantTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=ChineseRestaurantTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.ChineseRestaurantTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 6.351 s - in org.apache.mahout.math.random.ChineseRestaurantTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 54.696 s |

1. Test case 12: CentroidTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=CentroidTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.CentroidTest  [INFO] Tests run: 43, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.423 s - in org.apache.mahout.math.CentroidTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 43, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 51.455 s |

1. Test case 13: CholeskyDecompositionTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=CholeskyDecompositionTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.CholeskyDecompositionTest  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.384 s - in org.apache.mahout.math.CholeskyDecompositionTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.664 s |

1. Test case 14: DenseSymmetricTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=DenseSymmetricTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.DenseSymmetricTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.208 s - in org.apache.mahout.math.DenseSymmetricTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.139 s |

1. Test case 15: DiagonalMatrixTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=DiagonalMatrixTest |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.DiagonalMatrixTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.223 s - in org.apache.mahout.math.DiagonalMatrixTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 51.234 s |

1. Test case 16: FileBasedMatrixTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=FileBasedMatrixTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.FileBasedMatrixTest  [WARNING] Tests run: 2, Failures: 0, Errors: 0, Skipped: 1, Time elapsed: 1.661 s - in org.apache.mahout.math.FileBasedMatrixTest  [INFO]  [INFO] Results:  [INFO]  [WARNING] Tests run: 2, Failures: 0, Errors: 0, Skipped: 1  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 52.028 s |

1. Test case 17: FileBasedSparseBinaryMatrixTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=FileBasedSparseBinaryMatrixTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.FileBasedSparseBinaryMatrixTest  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.244 s - in org.apache.mahout.math.FileBasedSparseBinaryMatrixTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.659 s |

1. Test case 18: FunctionTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=FunctionTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.FunctionTest  [INFO] Tests run: 132, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.171 s - in org.apache.mahout.math.FunctionTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 132, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.382 s |

1. Test case 19: MatricesTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MatricesTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.MatricesTest  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.277 s - in org.apache.mahout.math.MatricesTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.857 s |

1. Test case 20: MatrixVectorViewTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MatrixVectorViewTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.MatrixVectorViewTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.183 s - in org.apache.mahout.math.MatrixVectorViewTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.152 s |

1. Test Case 21: MurmurHash3Test

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MurmurHash3Test |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.MurmurHash3Test  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.171 s - in org.apache.mahout.math.MurmurHash3Test  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.420 s |

1. Test Case 22: MurmurHashTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MurmurHashTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.MurmurHashTest  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.191 s - in org.apache.mahout.math.MurmurHashTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.944 s |

1. Test case 23: OldQRDecompositionTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=OldQRDecompositionTest |

Operation results:

|  |
| --- |
| [INFO]  [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.OldQRDecompositionTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.232 s - in org.apache.mahout.math.OldQRDecompositionTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 50.031 s |

1. Test Case 24: PermutedVectorViewTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=PermutedVectorViewTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.PermutedVectorViewTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.201 s - in org.apache.mahout.math.PermutedVectorViewTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.904 s |

1. Test Case 25: PivotedMatrixTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=PivotedMatrixTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.PivotedMatrixTest  [INFO] Tests run: 60, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.374 s - in org.apache.mahout.math.PivotedMatrixTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 60, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.798 s |

1. Test case 26: QRDecompositionTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=QRDecompositionTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.QRDecompositionTest  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.292 s - in org.apache.mahout.math.QRDecompositionTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.738 s |

1. Test Case 27: TestDenseMatrix

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestDenseMatrix |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestDenseMatrix  [INFO] Tests run: 60, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.365 s - in org.apache.mahout.math.TestDenseMatrix  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 60, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.367 s |

1. Test Case 28: TestDenseVector

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestDenseVector |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestDenseVector  [INFO] Tests run: 43, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.622 s - in org.apache.mahout.math.TestDenseVector  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 43, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 51.301 s |

1. Test Case 29: TestMatrixView

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestMatrixView |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestMatrixView  [INFO] Tests run: 48, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.323 s - in org.apache.mahout.math.TestMatrixView  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 48, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.786 s |

1. Test case 30: TestOrderedIntDoubleMapping

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestOrderedIntDoubleMapping |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestOrderedIntDoubleMapping  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.175 s - in org.apache.mahout.math.TestOrderedIntDoubleMapping  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.799 s |

1. Test case 31: TestRandomAccessSparseVector

Enter the test case directory:

|  |
| --- |
| cd / core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestRandomAccessSparseVector |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestRandomAccessSparseVector  [INFO] Tests run: 43, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 5.558 s - in org.apache.mahout.math.TestRandomAccessSparseVector  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 43, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 19.688 s |

1. Test case 32: TestSequentialAccessSparseVector

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestSequentialAccessSparseVector |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestSequentialAccessSparseVector  [INFO] Tests run: 44, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 6.011 s - in org.apache.mahout.math.TestSequentialAccessSparseVector  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 44, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 54.558 s |

1. Test Case 33: TestSingularValueDecomposition

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestSingularValueDecomposition |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestSingularValueDecomposition  [INFO] Tests run: 10, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.306 s - in org.apache.mahout.math.TestSingularValueDecomposition  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 10, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.914 s |

1. Test case 34: TestSparseColumnMatrix

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestSparseColumnMatrix |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestSparseColumnMatrix  [INFO] Tests run: 59, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.394 s - in org.apache.mahout.math.TestSparseColumnMatrix  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 59, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.754 s |

1. Test case 35: TestSparseMatrix

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestSparseMatrix |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestSparseMatrix  [INFO] Tests run: 61, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.407 s - in org.apache.mahout.math.TestSparseMatrix  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 61, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.767 s |

1. Test case thirty-six: TestSparseRowMatrix

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestSparseRowMatrix |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestSparseRowMatrix  [INFO] Tests run: 63, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 4.849 s - in org.apache.mahout.math.TestSparseRowMatrix  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 63, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 52.730 s |

1. Test case 37: TestVectorView

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestVectorView |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.TestVectorView  [INFO] Tests run: 35, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.292 s - in org.apache.mahout.math.TestVectorView  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 35, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.750 s |

1. Test case 38: UpperTriangularTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=UpperTriangularTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.UpperTriangularTest  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.201 s - in org.apache.mahout.math.UpperTriangularTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.885 s |

1. Test case 39: VectorBinaryAggregateCostTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=VectorBinaryAggregateCostTest |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.VectorBinaryAggregateCostTest  [INFO] Tests run: 9, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.152 s - in org.apache.mahout.math.VectorBinaryAggregateCostTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 9, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.881 s |

1. Test case 40: VectorBinaryAggregateTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=VectorBinaryAggregateTest |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.VectorBinaryAggregateTest  [INFO] Tests run: 270, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.574 s - in org.apache.mahout.math.VectorBinaryAggregateTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 270, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.676 s |

1. Test case 41: VectorBinaryAssignCostTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=VectorBinaryAssignCostTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.VectorBinaryAssignCostTest  [INFO] Tests run: 9, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.15 s - in org.apache.mahout.math.VectorBinaryAssignCostTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 9, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.928 s |

1. Test case 42: VectorBinaryAssignTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest= VectorBinaryAssignTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.VectorBinaryAssignTest  [INFO] Tests run: 80, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.178 s - in org.apache.mahout.math.VectorBinaryAssignTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 80, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.916 s |

1. Test Case 43: VectorTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=VectorTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.VectorTest  [INFO] Tests run: 26, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.297 s - in org.apache.mahout.math.VectorTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 26, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.887 s |

1. Test case 44: WeightedVectorTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=WeightedVectorTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.WeightedVectorTest  [INFO] Tests run: 45, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.372 s - in org.apache.mahout.math.WeightedVectorTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 45, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.498 s |

1. Test Case 45: EmpiricalTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=EmpiricalTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.EmpiricalTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.206 s - in org.apache.mahout.math.random.EmpiricalTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.738 s |

1. Test case 46: IndianBuffetTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=IndianBuffetTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.IndianBuffetTest  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.209 s - in org.apache.mahout.math.random.IndianBuffetTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.660 s |

1. Test case 47: MultinomialTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MultinomialTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.MultinomialTest  [INFO] Tests run: 8, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.263 s - in org.apache.mahout.math.random.MultinomialTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 8, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 49.274 s |

1. Test case 48: MultiNormalTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=MultiNormalTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.MultiNormalTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.375 s - in org.apache.mahout.math.random.MultiNormalTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.745 s |

1. Test case 49: NormalTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=NormalTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.jet.random.NormalTest  [INFO] Running org.apache.mahout.math.random.NormalTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.212 s - in org.apache.mahout.math.random.NormalTest  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.294 s - in org.apache.mahout.math.jet.random.NormalTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 6, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.821 s |

1. Test case 50: PoissonSamplerTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=PoissonSamplerTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.random.PoissonSamplerTest  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.234 s - in org.apache.mahout.math.random.PoissonSamplerTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.837 s |

1. Test Case 51: RandomBlasting

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=RandomBlasting |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.randomized.RandomBlasting  [INFO] Tests run: 102, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.143 s - in org.apache.mahout.math.randomized.RandomBlasting  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 102, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 52.585 s |

1. Test case 52: HashUtilsTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=HashUtilsTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.set.HashUtilsTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 2.41 s - in org.apache.mahout.math.set.HashUtilsTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 16.856 s |

1. Test case 53: EigenDecompositionTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=EigenDecompositionTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.solver.EigenDecompositionTest  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.123 s - in org.apache.mahout.math.solver.EigenDecompositionTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 50.151 s |

1. Test case 54: LSMRTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=LSMRTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.solver.LSMRTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.242 s - in org.apache.mahout.math.solver.LSMRTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.197 s |

1. Test Case 55: TestConjugateGradientSolver

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestConjugateGradientSolver |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.solver.TestConjugateGradientSolver  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.218 s - in org.apache.mahout.math.solver.TestConjugateGradientSolver  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.662 s |

1. Test case 56: SequentialBigSvdTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=SequentialBigSvdTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.ssvd.SequentialBigSvdTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.227 s - in org.apache.mahout.math.ssvd.SequentialBigSvdTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.512 s |

1. Test case 57: LogLikelihoodTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=LogLikelihoodTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]-------------------------------------------------------------  [INFO] Running org.apache.mahout.math.stats.LogLikelihoodTest  [INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.239 s - in org.apache.mahout.math.stats.LogLikelihoodTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 14.794 s |

1. Test case 58: OnlineExponentialAverageTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=OnlineExponentialAverageTest |

Operation results:

|  |
| --- |
| [INFO] Running org.apache.mahout.math.stats.OnlineExponentialAverageTest  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.182 s - in org.apache.mahout.math.stats.OnlineExponentialAverageTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 15.274 s |

1. Test case 59: OnlineSummarizerTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=OnlineSummarizerTest |

Operation results:

|  |
| --- |
| [INFO]-------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.stats.OnlineSummarizerTest  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.204 s - in org.apache.mahout.math.stats.OnlineSummarizerTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.609 s |

1. Test case 60: TestLanczosSolver

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=TestLanczosSolver |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.decomposer.lanczos.TestLanczosSolver  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.215 s - in org.apache.mahout.math.decomposer.lanczos.TestLanczosSolver  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 16.640 s |

1. Test case 61: ObjectArrayListTest

Enter the test case directory:

|  |
| --- |
| cd /core |

Run the use case:

|  |
| --- |
| mvn test -Dtest=ObjectArrayListTest |

Operation results:

|  |
| --- |
| [INFO]----------------------------------------------------------------  [INFO] TESTS  [INFO]----------------------------------------------------------------  [INFO] Running org.apache.mahout.math.list.ObjectArrayListTest  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.174 s - in org.apache.mahout.math.list.ObjectArrayListTest  [INFO]  [INFO] Results:  [INFO]  [INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0  [INFO]  [INFO] --------------------------------------------------------------------------------  [INFO] BUILD SUCCESS  [INFO] --------------------------------------------------------------------------------  [INFO] Total time: 48.411 s |

1. **Perf performance analysis**

**(Introducing the use of Perf automation scripts)**

**The script takes two parameters:**

**The first parameter is the test item . If the first parameter is "mvn test -Dtest=VarintTest"**

**By default, only the VarintTest test item is run and performance testing is performed . If two test items are tested at the same time, they are separated by semicolons by default. It also supports adding test items to the script, which can be automated in the default\_commands.**

**The second parameter is the address where the performance test file is generated. Fill in the directory where the performance test file needs to be generated.**

**This script can be executed automatically. Use "all" as the first parameter and keep the second parameter as usual.**

**Examples:**

**Execute VarintTest test item test**

**sudo bash /home/test .sh "mvn test -Dtest=VarintTest" /home / test**

**Operation Results**

**Running org.apache.mahout.math.VarintTest**

**Tests run: 8, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.539 sec - in org.apache.mahout.math.VarintTest**

**Results:**

**Tests run: 8, Failures: 0, Errors: 0, Skipped: 0**

**908043674435**

**791534.5**

**1577187977716**

**244244686222**

**3584276043**

**3584278514**

**23974979760**

**1067735023**

**77630667157**

**1021298804**

**822679704**

**3584289029**

**0.154**