MATLAB® Test Report

Timestamp: 09-Mar-2025 17:58:35
Host: fv-az1657-441
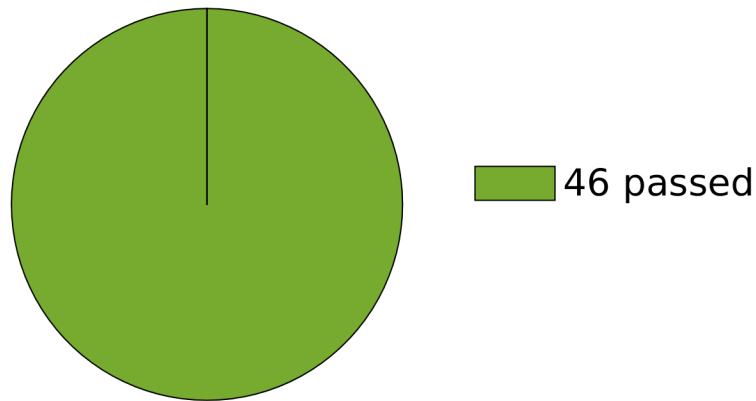Platform: glnxa64
MATLAB Version: 24.2.0.2863752 (R2024b) Update 5

Number of Tests: 46
Testing Time: 2.9194 seconds

Overall Result: PASSED

46 passed

Overview

/home/runner/work/astroDynamics/astroDynamics/classes/src/MassiveBodies/SphericalMass/test/

SphericalMassDynamics_test ⊘⊘⊘	1.5252 seconds
SphericalMassOperatorOverload_test ⊘	0.0252 seconds
SphericalMass_test ⊘⊘⊘⊘⊘ ⊘⊘⊘⊘⊘ ⊘⊘⊘⊘⊘ ⊘⊘⊘⊘⊘ ⊘⊘⊘⊘⊘ ⊘⊘⊘⊘⊘ ⊘⊘⊘⊘⊘ ⊘⊘	0.0782 seconds

/home/runner/work/astroDynamics/astroDynamics/classes/src/Universe/test/

Universe_test ⊘⊘⊘⊘	0.1074 seconds

/home/runner/work/astroDynamics/astroDynamics/classes/src/UniverseSimulation/test/

UniverseSimulationIntegration_test ⊘	1.1835 seconds

Details

/home/runner/work/astroDynamics/astroDynamics/classes/src/MassiveBodies/Spherical Mass/test/

SphericalMassDynamics_test

⊘ checkCalculateDeltaTselfZeroVelocity
 Test Tags: MatlabUnitTest

The test passed.
Duration: 1.4760 seconds

(Overview)

⊘ checkCalculateDeltaTselfFiniteVelocity
 Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0072 seconds

(Overview)

⊘ checkDynamicCentralMassAction
 Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0421 seconds

(Overview)

SphericalMassOperatorOverload_test

⊘ checkPlusOperatorOverload

The test passed.
Duration: 0.0252 seconds

SphericalMass_test

⊘ checkConstructor_0args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0066 seconds

⊘ checkConstructor_2args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0029 seconds

⊘ checkConstructor_4args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0027 seconds

⊘ checkConstructor_6args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0012 seconds

⊘ checkRadius
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0025 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=-7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0120 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=-5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0043 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=-3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0066 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=-1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0030 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0039 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityXdirectionOutsideSphere
    Test Parameters: deltaPos=7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=-7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0023 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=-5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0014 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=-3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=-1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0036 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityYDirectionOutsideSphere
    Test Parameters: deltaPos=7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=-7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0029 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=-5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0019 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=-3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0014 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=-1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0014 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0036 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0006 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensityXdirectionInsideSphere
    Test Parameters: deltaPos=7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=-7
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0022 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=-5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0014 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=-3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=-1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=1
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0036 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=3
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensitYdirectionInsideSphere
    Test Parameters: deltaPos=5
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

⊘ checkForceDensitYdirectionInsideSphere
  Test Parameters: deltaPos=7
  Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

/home/runner/work/astroDynamics/astroDynamics/classes/src/Universe/test/

Universe_test

⊘ checkUniverseConstructor
  Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0138 seconds

⊘ checkUniverseAddMassiveBody
  Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0055 seconds

⊘ checkCalculateDeltaT
  Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0340 seconds

⊘ checkTimePropagateUniverse
  Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0542 seconds

/home/runner/work/astroDynamics/astroDynamics/classes/src/UniverseSimulation/test/

UniverseSimulationIntegration_test

⊘ twoBodyCirculation

The test passed.
Duration: 1.1835 seconds