MATLAB® Test Report

Timestamp: 09-Mar-2025 10:41:11
Host: fv-az1680-744
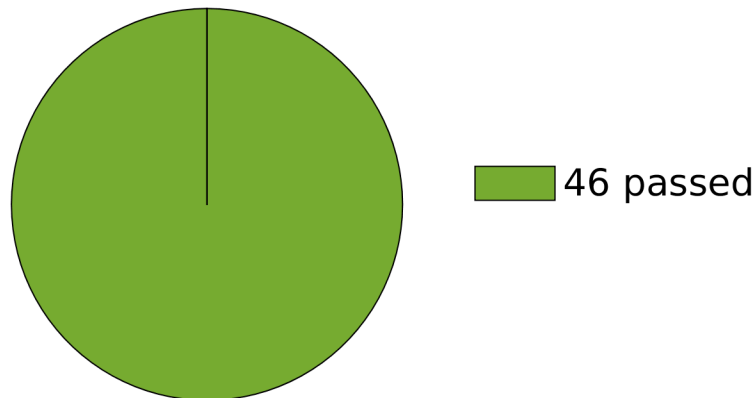Platform: glnxa64
MATLAB Version: 24.2.0.2863752 (R2024b) Update 5

Number of Tests: 46
Testing Time: 3.3072 seconds

Overall Result: PASSED

46 passed

Overview

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

SphericalMassDynamics_test	1.6007 seconds
SphericalMassOperatorOverload_test	0.0256 seconds
SphericalMass_test	0.0742 seconds

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

Universe_test	0.1090 seconds

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

UniverseSimulationIntegration_test	1.4977 seconds

Details

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

SphericalMassDynamics_test

⊘ checkCalculateDeltaTselfZeroVelocity
     Test Tags: MatlabUnitTest

The test passed.
Duration: 1.5479 seconds

(Overview)

⊘ checkCalculateDeltaTselfFiniteVelocity
     Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0074 seconds

(Overview)

⊘ checkDynamicCentralMassAction
     Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0455 seconds

(Overview)

SphericalMassOperatorOverload_test

⊘ checkPlusOperatorOverload

The test passed.
Duration: 0.0256 seconds

SphericalMass_test

⊘ checkConstructor_0args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0067 seconds

⊘ checkConstructor_2args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0029 seconds

⊘ checkConstructor_4args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0028 seconds

⊘ checkConstructor_6args
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

⊘ checkRadius
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0027 seconds

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

The test passed.
Duration: 0.0058 seconds

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

The test passed.
Duration: 0.0044 seconds

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

The test passed.
Duration: 0.0067 seconds

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

The test passed.
Duration: 0.0031 seconds

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

The test passed.
Duration: 0.0040 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: 0.0024 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: 0.0014 seconds

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

The test passed.
Duration: 0.0014 seconds

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

The test passed.
Duration: 0.0037 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: 0.0032 seconds

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

The test passed.
Duration: 0.0022 seconds

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

The test passed.
Duration: 0.0015 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: 0.0037 seconds

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

The test passed.
Duration: 0.0005 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: 0.0014 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: 0.0037 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: 0.0143 seconds

⊘ checkUniverseAddMassiveBody
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0059 seconds

⊘ checkCalculateDeltaT
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0350 seconds

⊘ checkTimePropagateUniverse
    Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0538 seconds

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

UniverseSimulationIntegration_test

⊘ twoBodyCirculation

The test passed.
Duration: 1.4977 seconds