;; Auto-generated. Do not edit!

(when (boundp 'gazebo\_msgs\_new::ODEPhysics)

(if (not (find-package "GAZEBO\_MSGS\_NEW"))

(make-package "GAZEBO\_MSGS\_NEW"))

(shadow 'ODEPhysics (find-package "GAZEBO\_MSGS\_NEW")))

(unless (find-package "GAZEBO\_MSGS\_NEW::ODEPHYSICS")

(make-package "GAZEBO\_MSGS\_NEW::ODEPHYSICS"))

(in-package "ROS")

;;//! \htmlinclude ODEPhysics.msg.html

(defclass gazebo\_msgs\_new::ODEPhysics

:super ros::object

:slots (\_auto\_disable\_bodies \_sor\_pgs\_precon\_iters \_sor\_pgs\_iters \_sor\_pgs\_w \_sor\_pgs\_rms\_error\_tol \_contact\_surface\_layer \_contact\_max\_correcting\_vel \_cfm \_erp \_max\_contacts ))

(defmethod gazebo\_msgs\_new::ODEPhysics

(:init

(&key

((:auto\_disable\_bodies \_\_auto\_disable\_bodies) nil)

((:sor\_pgs\_precon\_iters \_\_sor\_pgs\_precon\_iters) 0)

((:sor\_pgs\_iters \_\_sor\_pgs\_iters) 0)

((:sor\_pgs\_w \_\_sor\_pgs\_w) 0.0)

((:sor\_pgs\_rms\_error\_tol \_\_sor\_pgs\_rms\_error\_tol) 0.0)

((:contact\_surface\_layer \_\_contact\_surface\_layer) 0.0)

((:contact\_max\_correcting\_vel \_\_contact\_max\_correcting\_vel) 0.0)

((:cfm \_\_cfm) 0.0)

((:erp \_\_erp) 0.0)

((:max\_contacts \_\_max\_contacts) 0)

)

(send-super :init)

(setq \_auto\_disable\_bodies \_\_auto\_disable\_bodies)

(setq \_sor\_pgs\_precon\_iters (round \_\_sor\_pgs\_precon\_iters))

(setq \_sor\_pgs\_iters (round \_\_sor\_pgs\_iters))

(setq \_sor\_pgs\_w (float \_\_sor\_pgs\_w))

(setq \_sor\_pgs\_rms\_error\_tol (float \_\_sor\_pgs\_rms\_error\_tol))

(setq \_contact\_surface\_layer (float \_\_contact\_surface\_layer))

(setq \_contact\_max\_correcting\_vel (float \_\_contact\_max\_correcting\_vel))

(setq \_cfm (float \_\_cfm))

(setq \_erp (float \_\_erp))

(setq \_max\_contacts (round \_\_max\_contacts))

self)

(:auto\_disable\_bodies

(&optional \_\_auto\_disable\_bodies)

(if \_\_auto\_disable\_bodies (setq \_auto\_disable\_bodies \_\_auto\_disable\_bodies)) \_auto\_disable\_bodies)

(:sor\_pgs\_precon\_iters

(&optional \_\_sor\_pgs\_precon\_iters)

(if \_\_sor\_pgs\_precon\_iters (setq \_sor\_pgs\_precon\_iters \_\_sor\_pgs\_precon\_iters)) \_sor\_pgs\_precon\_iters)

(:sor\_pgs\_iters

(&optional \_\_sor\_pgs\_iters)

(if \_\_sor\_pgs\_iters (setq \_sor\_pgs\_iters \_\_sor\_pgs\_iters)) \_sor\_pgs\_iters)

(:sor\_pgs\_w

(&optional \_\_sor\_pgs\_w)

(if \_\_sor\_pgs\_w (setq \_sor\_pgs\_w \_\_sor\_pgs\_w)) \_sor\_pgs\_w)

(:sor\_pgs\_rms\_error\_tol

(&optional \_\_sor\_pgs\_rms\_error\_tol)

(if \_\_sor\_pgs\_rms\_error\_tol (setq \_sor\_pgs\_rms\_error\_tol \_\_sor\_pgs\_rms\_error\_tol)) \_sor\_pgs\_rms\_error\_tol)

(:contact\_surface\_layer

(&optional \_\_contact\_surface\_layer)

(if \_\_contact\_surface\_layer (setq \_contact\_surface\_layer \_\_contact\_surface\_layer)) \_contact\_surface\_layer)

(:contact\_max\_correcting\_vel

(&optional \_\_contact\_max\_correcting\_vel)

(if \_\_contact\_max\_correcting\_vel (setq \_contact\_max\_correcting\_vel \_\_contact\_max\_correcting\_vel)) \_contact\_max\_correcting\_vel)

(:cfm

(&optional \_\_cfm)

(if \_\_cfm (setq \_cfm \_\_cfm)) \_cfm)

(:erp

(&optional \_\_erp)

(if \_\_erp (setq \_erp \_\_erp)) \_erp)

(:max\_contacts

(&optional \_\_max\_contacts)

(if \_\_max\_contacts (setq \_max\_contacts \_\_max\_contacts)) \_max\_contacts)

(:serialization-length

()

(+

;; bool \_auto\_disable\_bodies

1

;; uint32 \_sor\_pgs\_precon\_iters

4

;; uint32 \_sor\_pgs\_iters

4

;; float64 \_sor\_pgs\_w

8

;; float64 \_sor\_pgs\_rms\_error\_tol

8

;; float64 \_contact\_surface\_layer

8

;; float64 \_contact\_max\_correcting\_vel

8

;; float64 \_cfm

8

;; float64 \_erp

8

;; uint32 \_max\_contacts

4

))

(:serialize

(&optional strm)

(let ((s (if strm strm

(make-string-output-stream (send self :serialization-length)))))

;; bool \_auto\_disable\_bodies

(if \_auto\_disable\_bodies (write-byte -1 s) (write-byte 0 s))

;; uint32 \_sor\_pgs\_precon\_iters

(write-long \_sor\_pgs\_precon\_iters s)

;; uint32 \_sor\_pgs\_iters

(write-long \_sor\_pgs\_iters s)

;; float64 \_sor\_pgs\_w

(sys::poke \_sor\_pgs\_w (send s :buffer) (send s :count) :double) (incf (stream-count s) 8)

;; float64 \_sor\_pgs\_rms\_error\_tol

(sys::poke \_sor\_pgs\_rms\_error\_tol (send s :buffer) (send s :count) :double) (incf (stream-count s) 8)

;; float64 \_contact\_surface\_layer

(sys::poke \_contact\_surface\_layer (send s :buffer) (send s :count) :double) (incf (stream-count s) 8)

;; float64 \_contact\_max\_correcting\_vel

(sys::poke \_contact\_max\_correcting\_vel (send s :buffer) (send s :count) :double) (incf (stream-count s) 8)

;; float64 \_cfm

(sys::poke \_cfm (send s :buffer) (send s :count) :double) (incf (stream-count s) 8)

;; float64 \_erp

(sys::poke \_erp (send s :buffer) (send s :count) :double) (incf (stream-count s) 8)

;; uint32 \_max\_contacts

(write-long \_max\_contacts s)

;;

(if (null strm) (get-output-stream-string s))))

(:deserialize

(buf &optional (ptr- 0))

;; bool \_auto\_disable\_bodies

(setq \_auto\_disable\_bodies (not (= 0 (sys::peek buf ptr- :char)))) (incf ptr- 1)

;; uint32 \_sor\_pgs\_precon\_iters

(setq \_sor\_pgs\_precon\_iters (sys::peek buf ptr- :integer)) (incf ptr- 4)

;; uint32 \_sor\_pgs\_iters

(setq \_sor\_pgs\_iters (sys::peek buf ptr- :integer)) (incf ptr- 4)

;; float64 \_sor\_pgs\_w

(setq \_sor\_pgs\_w (sys::peek buf ptr- :double)) (incf ptr- 8)

;; float64 \_sor\_pgs\_rms\_error\_tol

(setq \_sor\_pgs\_rms\_error\_tol (sys::peek buf ptr- :double)) (incf ptr- 8)

;; float64 \_contact\_surface\_layer

(setq \_contact\_surface\_layer (sys::peek buf ptr- :double)) (incf ptr- 8)

;; float64 \_contact\_max\_correcting\_vel

(setq \_contact\_max\_correcting\_vel (sys::peek buf ptr- :double)) (incf ptr- 8)

;; float64 \_cfm

(setq \_cfm (sys::peek buf ptr- :double)) (incf ptr- 8)

;; float64 \_erp

(setq \_erp (sys::peek buf ptr- :double)) (incf ptr- 8)

;; uint32 \_max\_contacts

(setq \_max\_contacts (sys::peek buf ptr- :integer)) (incf ptr- 4)

;;

self)

)

(setf (get gazebo\_msgs\_new::ODEPhysics :md5sum-) "667d56ddbd547918c32d1934503dc335")

(setf (get gazebo\_msgs\_new::ODEPhysics :datatype-) "gazebo\_msgs\_new/ODEPhysics")

(setf (get gazebo\_msgs\_new::ODEPhysics :definition-)

"bool auto\_disable\_bodies # enable auto disabling of bodies, default false

uint32 sor\_pgs\_precon\_iters # preconditioning inner iterations when uisng projected Gauss Seidel

uint32 sor\_pgs\_iters # inner iterations when uisng projected Gauss Seidel

float64 sor\_pgs\_w # relaxation parameter when using projected Gauss Seidel, 1 = no relaxation

float64 sor\_pgs\_rms\_error\_tol # rms error tolerance before stopping inner iterations

float64 contact\_surface\_layer # contact \"dead-band\" width

float64 contact\_max\_correcting\_vel # contact maximum correction velocity

float64 cfm # global constraint force mixing

float64 erp # global error reduction parameter

uint32 max\_contacts # maximum contact joints between two geoms

")

(provide :gazebo\_msgs\_new/ODEPhysics "667d56ddbd547918c32d1934503dc335")