GENWORM(1) GENWORM(1)

NAME

genworm - generate a RADIANCE description of a functional worm

SYNOPSIS

genworm mat name x(t), y(t), z(t), z(t), z(t), nseg [-e expr][-f file]

DESCRIPTION

Genworm produces a RADIANCE scene description of a worm defined by the parametric equations x(t), y(t), z(t), and r(t) (the radius). T will vary from 0 to 1 in steps of I/nseg. The surface will be composed of nseg cones or cylinders and nseg+I spheres. The expressions are of the same type used in RADIANCE function files. Auxiliary expressions and/or files may be specified in any number of -e and -f options. The variable and function definitions in each -f source file are read and compiled from the RADIANCE library where it is found.

EXAMPLE

To generate a banana:

genworm yellow banana '0' '5*sin(t)' '5*cos(t)' '.4-(.5-t)*(.5-t)' 20

ENVIRONMENT

RAYPATH

the directories to check for auxiliary files.

AUTHOR

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BUGS

Since the worm is constructed of intersecting surfaces, only opaque materials should be used with this object. Also, a worm cannot double back inside itself without making a mess.

SEE ALSO

genbox(1), genrev(1), gensurf(1), icalc(1), rpict(1), rvu(1), xform(1)