
NAME

osac2hrma - convert from OSAC to HRMA coordinates

DESCRIPTION

osac2hrma reads a ray stream in **bpipe** format, converts the coordinates into HRMA coordinates and writes the stream out.

The conversion from OSAC to HRMA is as follows:

$$\begin{aligned}x &= -z \\y &= x \\z &= -y\end{aligned}$$

Both positions and direction cosines are converted.

It writes out a **bpipe** formatted ray stream.

PARAMETERS

osac2hrma uses the standard parameter interface

input file

Input ray stream. If the filename is the string `stdin`, it reads from the standard input stream. It accepts rays in **bpipe** format.

output file

Output ray stream. If the filename is the string `stdout`, it writes to the standard output stream. It writes rays in **bpipe** format.

version *boolean*

Print out **osac2hrma**'s version and exit.

help *boolean*

Print out help and exit.

debug *list*

A list of debug flags. None are presently defined.

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AUTHOR

D. Jerius