

**NAME**

scatterdb\_convert – converts old style scattering database to new style scattering database.

**SYNOPSIS**

**scatterdb\_convert** [OPTIONS]

**DESCRIPTION**

Copies the *scatterdb* to *outputdb* adding fields to adhere to the new style scattering database required by scatter-1.0.1 and greater.

The *hdosxform\_db* and *mirror\_db* are used to determine the zone geometry in the body center coordinates.

**OPTIONS**

The following options are supported:

*hdosxformdb*

RDB database mirror dimensions. See FILES.

*mirrordb*

RDB database of mirror positions. See FILES.

*scatterdb*

RDB database of zone positions and scattering distribution files. See FILES.

*outputdb*

File into which the output is written.

*help*

Print brief usage information and exit.

*usage*

Print usage information and exit.

*version*

Print version information and exit.

**EXAMPLE**

```
scatterdb_convert \
  --hdosxformdb /proj/axaf/simul/databases/mirror/hdos_xform.rdb \
  --mirrordb /proj/axaf/simul/databases/mirror/EKCHDOS06.rdb \
  --scatterdb /proj/axaf/simul/databases/scatter/HDOS_980623a.rdb \
  --outputdb ./HDOS_980623a.rdb
```

**FILES**

*HDOS Transform Database*

The HDOS transform database must contain the mirror name, mirror end cut position, and mirror length in the *mirror*, *Z<sub>ec</sub>*, and *L* columns respectively.

*Mirror Database*

The mirror database must contain the mirror name and Z position of the body center of the optic in the *mirror* and *z0* columns respectively.

*Scatter Database*

The scatter database must contain the mirror name, Z position of the zone minimum, Z position of the zone maximum, and the binary format scattering distribution file in the *mirror*, *zmin*, *zmax*, and *scat\_file* columns respectively.

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**VERSION**

This documents version @VERSION@ of **scatterdb\_convert**.

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