Appendix C

Unsupported Programs and Modules

This appendix contains information about programs and modules that are included with CM/AVS but are not guaranteed or supported.

These items reside in the directory **`/usr/examples/cmavs/unsupported`**.

Programs

The following programs are documented in this appendix:

`avstoppm`

`ppmtoavs`

Modules

The following modules are documented in this appendix:

`field to polygons`

`field to spheres`

C.1 avstoppm

Convert AVS images (.x format) to PPM format.

avstoppm [*infile*] [*outfile*]

avstoppm converts images from AVS format (filenames end in .x) to PPM format. If no filenames are given, **avstoppm** reads from *stdin* and writes to *stdout*. If one filename is given, it is the input filename, and output goes to *stdout*. If two filenames are given, the first is the input file and the second is the output file (which is first truncated if it exists).

C.2 ppmtoavs

Convert PPM format images to AVS images (.x format).

ppmtoavs [*infile*] [*outfile*]

ppmtoavs converts images from PPM format to AVS image format. The **alpha** bytes of the AVS image are all zeros.

If no filenames are given, **ppmtoavs** reads from *stdin* and writes to *stdout*. If one filename is given, it is the input filename, and output goes to *stdout*. If two filenames are given, the first is the input file and the second is the output file (which is first truncated if it exists).

C.3 field to polygons

Translate a coordinate field into a set of polygons.

Type	mapper
Inputs	polygon list 2D 3-space irregular float colormap
Outputs	polygon geom (*geom*)

Parameters	**Name**	**Type**	**Default**	**Choices**
	Use Color	toggle	off	on, off

The **field to polygons** module translates a field containing vertex coordinates into a geometry describing polygons. The polygon list's points array contains the vertex coordinates, and the data array (optionally) contains the color information.

C.4 field to spheres

Translate a coordinate field into a set of spheres.

Type mapper

Inputs sphere list – field 3-space irregular float
colormap – colormap

Outputs sphere geom – geom

Parameters	**Name**	**Type**	**Default**	**Choices**
	size	dial	0.0	
	Use Color	toggle	off	on, off

The **field to spheres** module translates an irregular field describing a set of three space coordinates into a geometry containing sphere objects. The sphere list's points array describes the spheres' positions. Optionally, the field's data array describes the spheres' colors.

If the **size** parameter is equal to 0.0, the spheres are drawn as single pixels. If the size is greater than 0.0, the spheres are drawn as uniformly-sized spheres with radii equal to the size.