Migrating from AVS5

- “AVS5 Compatibility Kit”: help users migrate to Viz/Express
- Sometimes referred to as AC Kit
- It is not available on the PC versions though
- The idea of the AC Kit is to
  - allow your AVS5 application to execute in the Express environment

and then

  - help you port your AVS5 application piecewise into an Express one

- It is not to allow you to continue developing AVS5 applications (even though you could)

AC Kit

- ❑ Read an AVS Network
- ❑ Read an AVS CLI script
- ❑ Read an AVS5 module/module library
- ❑ Read AVS5 field, UCD and GEOM files
- ❑ The Express field can represent field, UCD and GEOM

Reading an AVS5 Network

- There is support within AVS/Express for executing AVS5 modules
- This can be done without a need to re-compile them

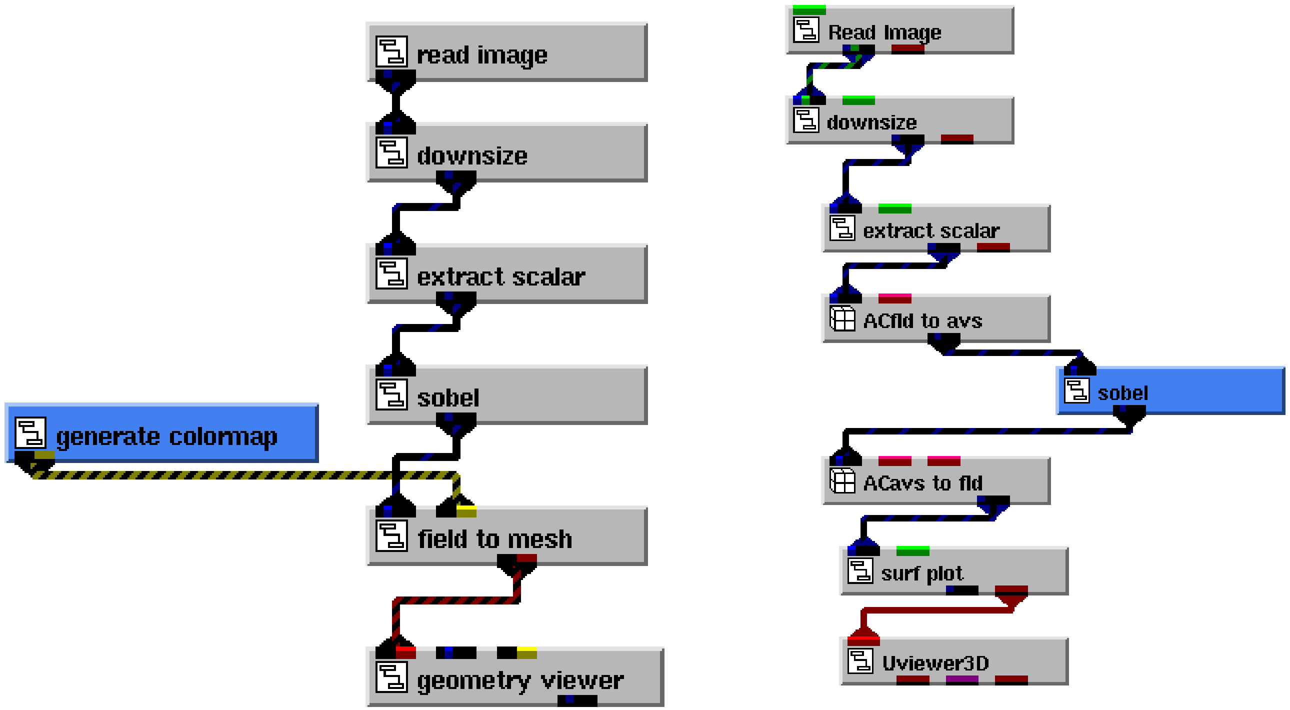
- There exist convertors from AVS5 data types to Express types to aid migrating to an Express framework

Convertors for AVS5 data types

- ACavs_to_fld: AVS5 field to Express field
- ACfld_to_avs: Express field to AVS5 field
- ACavs_to_image: AVS5 field containing an image to Express field
- ACimage_to_avs: Express field containing image to AVS5 field
- ACucd_to_fld: AVS UCD to Express field
- ACfld_to_ucd: Express field to UCD
- ACgeoms_to_obj: AVS Geom to Express geometry objects

Porting strategy

- ❑ Read in the network and use convertors to switch over to Express modules



Missing features and restrictions 1

- CLI
  - geom*, image* and graph* fail silently
  - no CLI interpreter - save commands to .net or .scr file
- ADIA and module generator
  - no direct placement but there are tools to help import data and construct modules within Express
- No AVS5 macro module support
  - use macros in Express
- No online help for AVS5 modules
  - aim is not to develop AVS5 applications in Express

Missing features and restrictions 2

- AVS5 Upstream data from AVS5 viewers
  - The AVS5 viewers are all provided by the one Express Data Viewer
  - Data Viewer provides information on picked objects in an Express way
  - other modules should work e.g., display_tracker and tracer
- User interface will look different
  - due to size and difference between LUI and Motif widgets
  - need to recustomise interface
- No direct replacement for AVS5 animator
  - a keyframe animator in Express is provided

Missing features and restrictions 3

- ❑ Some data types are not support directly:
  - colourmaps - can be read into Express
  - pixmaps - from render geometry in AVS4, in unsupported part of AVS5
- ✷ CDK not supported - MAVIS and Visual project
  - could build the application CDK structure from Express objects (see UDT later)

Demonstrations

- reading an AVS5 application
- convertors for Data types
- morphing
- key frame animator