There a four areas in which standards are needed:

- design documentation;
- coding;
- programmer-oriented documentation; and
- user oriented documentation.

A computer aided software design (CASD) tool will be used during the advanced C++ school (Jan. 21-24). It may be possible to retain this after the course and use it to record the evolving design of AIPS++.

The possibility of using FrameMaker was discussed but many were of the opinion that we could not impose a particular commercial desktop publishing or word processing package on other institutions. Texinfo and LaTeX were also discussed; many people were not familiar with Texinfo.

It was suggested (by Mark Stupar?) that AIPS++ designers write in whatever format they are comfortable with initially and that documents be edited into some standard format further down the line.

Many people felt that hypertext documentation was desirable but it was clear that there needs to be some investigation of specific hypertext display and authoring [sic] packages.

There was general agreement that a number of levels of user documentation were required from the cookbook level to detailed explanations of each program, including the algorithms used. [We did not discuss the need for manuals for AIPS++ administrators but it is clear that these will be important. -- CF].

Mark Holdaway suggested shipping sample data and tutorial scripts with the AIPS++ package. Some people felt that tutorials would be ignored.

There was some discussion about who should write the user documentation. There appeared to be agreement that user documentation should be written by astronomers but it might be useful to hire a technical writer to convert the initial documentation to a more polished forThere was also some uncertainty could be assumed of the user. Some people (notably Bob Hjellming) felt that AIFS++ documentation should explain basic interferometry but the majority of those that expressed an opinion thought that a knowledge of basic radioastromical techniques could be assumed and that the VLA aperture synthesis school procedings or Thompson, Swenson and Moran were a more appropriate source for such information.

There was consensus that the amount of redundent information in the user documentation be minimized. This rules out have completely self contained documentatic

Our current intent is to adopt the Plum-Hall C++ programming guidelines when they are published, which should be any time now. C++ style will be enforced primarily by code review.

The final discussion was on which C++ development environment to adopt as a project standard. This was inconclusive: ObjectCenter is capable of detecting problems due to memory leaks and may be easier for the naive programmer to use; ObjectWorks\C++ allows access to the POSIX.1 interface and tracks the USL C++ releases more closely.

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