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From: Bob Payne
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aips++ documentaion:
```

Some time ago now Chris Flatters proposed a class documentation standard. There are several excellent suggestions in that document however it makes several design decisions which I would do differently. The use of C style comment fields and the tagging scheme for selecting what is being documented seems more than is needed. I would prefer the use of C++ comment delimiters and have the extractor generate documentation based on the actual code rather than on comment fields which may not reflect changes to the code or may fail to document items in the code.

There is a public domain documentation extractor for C++ code called "genman". It is a GNU awk script which looks for C++ keywords and generates ascii or man page documentation from these keywords. While this program may need to be enhanced I believe it close to what is needed and may be better at extracting documentation from code which does not meet the standards proposed in Chris's document.

In any case we will soon need decisions on coding style and documentation standards for production aips++ code.

Here is the suggested template file for genman:

```
//-----
//
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                 foo.h
//
#ifndef FOO H
#define FOO H
// .NAME foo - a class to manage foo objects
// .LIBRARY Base
// .HEADER General utility routines
// .INCLUDE base/foo.h
// .FILE foo.cxx
// .FILE foo.h
// .SECTION Description
// A paragraph describing the class the include file defines.
// Use a blank line to terminate the paragraph.
// .SECTION Caveats
// A paragraph describing unusual features of the class.
// This paragraph may be omitted.
#ifndef STDIO HXX
#include <stdio.hxx>
#endif
class foo
private:
    int *bar;
    // Pointer to character string struct.
protected:
public:
    foo( const char *str= 0 );
    ~foo();
    };
#endif // FOO H
```

foo.h

SUMMARY

Mar 24 09:09

```
NAME
    foo - a class to manage foo objects
SYNOPSIS
    #include <base/foo.h>
    class foo
        Public members
            foo( const char *str= 0 );
            ~foo();
        Private members
            int *bar;
               Pointer to character string struct.
    A paragraph describing the class the include file defines.
    Use a blank line to terminate the paragraph.
    A paragraph describing unusual features of the class.
    This paragraph may be omitted.
DEFINED MACROS
    FOO H
INCLUDED FILES
    <stdio.hxx>
SOURCE FILES
    foo.cxx
```