◆UNIX

Editor's Report

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Editorial policy (same as last time)

Much of the RM needs improvement

- Resolutions of the committee (if any) are incorporated into the working paper
- Messages (preferably email) to the editor
  - Typos and thinkos are fixed with thanks
  - Substantive or controversial issues are referred to the appropriate subcommittee
- Issues brought up on the reflectors that seem clearly correct and non-controversial are incorporated
- The committee can undo any of the editor's decisions at the next meeting

C Compatibility

- Chapter 16, "Preprocessing Directives"
  - Taken from C Standard
  - Modified appropriately for C++
- Chapter 2, "Lexical Conventions"
  - Phases of translation

Digraphs and New Keywords

- Appear in Chapter 2
- Distinguished from originals (in separate lists)

Other changes

- Basic concepts
  - Added "function prototype scope" for argument names in function declarations.
  - Make it explicit that `exit()` doesn't destroy any local variables.
- Standard conversions
  - Tighten up the discussion of pointer conversions
- A few syntax fixes

Expressions

- Tighten up the function-style cast description
- Fix explanation of allocation of zero-length arrays.
- Arithmetic on pointers to functions prohibited.
- Fix conditional expression (allowing pointer-to-member as first expression, and throw expression as second or third).

Chapter changes

- Statements
  - Allow pointer-to-member in `if`, etc. statements
- Declarations
  - Clean up description of enumerations (they are no longer integral types).
- Declarators
  - Included Scott Turner's pointer to pointer to `const` example

More chapter changes

- Classes, derived classes, and access control
  - no significant changes
- Special member functions
  - Prohibited `X::operator X&()`
  - Added base classes to memberwise initialization (virtual base classes initialized once) What about assignment?
  - Improve description of default assignment and construction

Still more chapter changes

- Overloading
  - Subsequences are always preferred.
  - Fix operator ++ and -- description
- Templates
  - A template argument is taken as a type argument rather than an arg declaration.
- Preprocessing
  - Replaced the chapter with the chapter from the C Standard (almost).