X3J16/91-0125 wg21/N0058

Library Working Group Presentation 11 November 1991

Library Working Group

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Overview

| What the group is working on |
|---------------------------------------|
| Open Issues from last time |
| Progress since last meeting (summary) |
| Presentations |
| Recommended Actions & Work Plan |

What the Group is Working On

Producing documents to serve as proposals to X3J16 Goal: at least as complete as Template and Exception proposals Current focus: 18.1 Language Support 18.2 Input/Output 18.3 ANSI C 18.4 String ... the universe of reusable components Timeline:

"final draft"

Proposal for vote

Open Issues From Last Time

- Language SupportPredefined Exceptions
- ☐ Input/Output

International Character Handling Error handling

☐ ANSI C Library

Reference/Include C standard Mixed C/C++ Interactions:

streams & stdio new/delete & malloc/free/realloc exceptions & signals

□ String

Exception specifications
Substrings and temporaries

Other

International character handling Naming:

header "file" names class names (vs. nested classes) use of typedefs

Description of Library "conformance"

Progress Since the Last Meeting

- Documents
 - Language Support revised (after mailing)
 - Standard Exceptions proposed (91–0116)

Input/output revised (91–0117)

ANSI C issues summarized (91–0105)

String proposal revised (91–0078)

Review of Library submissions (91–0111)

•-mail

Standard exceptions:

- Common base class xmsg
- To define "undefined" behavior (e.g. operator new)
- To report assertion violations
- From Jerry Schwarz
- Comments from Doug Lea and Jon Shopiro

Strings:

- Comments on constructing, assigning, and appending
- From Uwe Steinmueller, Siemens-Nixdorf
- No comments

Container classes proposed:

- "A Smalltalk-like type hierarchy"
- From Uwe Steinmueller and Alexander Zitzwitz,
 Siemens-Nixdorf
- Comment by James Coggins, UNC Chapel Hill

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Presentations

□ Strings Aron Insinga
Technical Session Tuesday evening

Recommended Actions

□ Comment on evolving proposals
 □ Join in discussions ("live" & e-mail)
 □ Trial implementations (to "standardize existing practice")

Work Plan

Decide error/exception approach Proposal for 18.1, Language Support Proposal for 18.2, Input/Output Define C/C++ library interaction Proposal for 18.3, ANSI C Library Proposal for 18.4, String classes Start on Rationale sections Decide container classes approach