Title: Clause 26 (Numerics Library) Issues List

Author: Judy Ward

Date: September 24, 1996

Document Number: X3J16/96-0180 WG21/N0998

Work Group: Library Issue Number: 26/053

Title: remove valarray::free()? Section: 26.3.1.7 New

Status: active

Description:

Now that valarray::resize() has been added, doesn't

resize(0) have the same semantics as free()?

Proposed Resolution:
Remove valarray::free().

Requestor: Judy Ward
Owner: Judy Ward

Emails: (email reflector messages that discuss this issue)

Papers: (committee documents that discuss this issue)

Work Group: Library Issue Number: 26/052

Title: description of valarray destructor (Box 23)

Section: 26.3.1.1 New

Status: active

Description:

Proposed Resolution:

Change last phrase of ~valarray description from "all allocated memory is

returned to "an implementation may return all allocated memory".

Also remove Box 23.

Requestor: Daveed Vandevoorde Owner: Judy Ward

Emails: (email reflector messages that discuss this issue)

Papers: (committee documents that discuss this issue)

\*

Resolution of previous numerics issues:

Issue: 26-051

Title: define return of complex of pow(0,0)

Status: The standard will say that pow(0,0) returns an

implementation-defined value.

Issue: 26-050

Title: box 100 - clarification of motion 55

Status: passed.

Issue: 26-049

Title: exceptions in complex

Status: passed.

Issue: 26-048

Title: box 99 -- no exceptions in valarray

Status: passed.

Issue: 26-047

Title: box 98 -- description of ranges/branch cuts

Status: passed.

Issue: 26-046

Title: box 97 - remove

Status: passed.

Issue: 26-045

Title: partial\_sum semantics wrong

Status: passed.

Issue: 26-044

Title: no normative description of semantics of valarray<T>::operator[](slice)

Status: passed.

Issue: 26-043

Title: clarification to valarray min/max

Status: passed.

Issue: 26-042

Title: non-normative commentary should be moved to notes

Status: passed.

Issue: 26-041

Title: no description of ~valarray<T>

Status: passed.

Issue: 26-040

Title: non-normative commentary should be moved to notes

Status: passed.

Issue: 26-039

Title: valarray::operator T\* and operator const T\* cause ambiguities

Status: passed.

Issue: 26-038

Title: description of returns from arg()

Status: passed.

Issue: 26-037

Title: template <class T> shouldn't appear in detailed descriptions

Status: passed.

Issue: 26-036

Title: T should be const T& in complex mathematical ops

Status: passed.

Issue: 26-035

Title: constraints on complex type T should be specified?

Status: passed.

Issue: 26-034

Title: ambiguity with complex::operator!=?

Status: closed without action.

Issue: 26-033

Title: clarify definition of boolean mask subset operator

Status: closed without action.

Issue: 26-032

Title: Should valarray::operator! return valarray<br/>vbool> not valarray<T>?

Status: passed.

Issue: 26-031

Title: should valarray unary ops be non-members?

Status: closed without action.

Issue: 26-030

Title: fix up what headers are included by complex, valarray, and numeric

Status: closed without action.

Issue: 26-029

Title: valarray::operator|| and valarray::operator&&

Status: passed, decided to change return type to valarray<bool>.

Issue: 26-028

Title: rename valarray::length() to valarray::size()

Status: passed.

Issue: 26-027

Title: should gslices be changed/removed?

Status: closed without action.

Issue: 26-026

Title: should valarray sum(),apply(),and reduce() be templates?

Status: closed without action.

Issue: 26-025

Title: should STL-like semantics be added to valarray?

Status: closed without action.

Issue: 26-024

Title: make valarray arithmetic operators more general?

Status: closed without action.

Issue: 26-023

Title: should min/max be global or member functions?

Status: passed.

Issue: 26-022

Title: int should be size\_t for element type of indirect\_array

Status: passed.

Issue: 26-021

Title: copy ctor declared for slice\_array

Status: closed without action.

Issue: 26-020

Title: order of argument to valarray constructors

Status: closed without action.

Issue: 26-019

Title: Should typedefs be provided in complex lib?

Status: closed without action.

Issue: 26-018

Title: numerical programming extensions

Status: closed without action.

Issue: 26-017

Title: math function ambiguities? Status: closed without action.

Issue: 26-016

Title: Should branch cuts and ranges be specified in complex lib?

Status: passed.

Issue: 26-015

Title: should norm() be removed/renamed in complex library?

Status: closed without action.

Issue: 26-014

Title: Friends operators within class complex

Status: passed, operators will not have to be friends.

Issue: 26-013

Title: sqrt() function in complex lib -- which root does it return?

Status: closed without action, subsumed by Issue 26-016.

Issue: 26-012

Title: Complex class operators

Status: See resolution in post-Santa Cruz motions.

Issue: 26-011

Title: ambiguity with assignment ops in complex Status: See resolution in post-Santa Cruz motions.

Issue: 26-010

Title: basic\_complex typedefs Status: closed without action.

Issue: 26-009

Title: valarray usefulness

Status: See resolution of X3J16/96-0039, WG21/N0857 in post-Stockholm mailing.

Issue: 26-008

Title: algebraic structures as traits

Status: closed without action.

Issue: 26-007

Title: cleanup of Chapter 26

Status: closed without action (already fixed).

Issue: 26-006

Title: changes to valarray classes

Status: passed.

Issue: 26-005

Title: const questions with valarray

Status: passed.

Issue: 26-004

Title: should typedefs be provided in complex for backward compatability?

Status: closed without action.

Issue: 26-003

Title: Should complex real() and imag() be member functions or friends?

Status: closed without action.

Tasue: 26-002

Title: Should complex insertion operator be allowed to take scalar input?

Status: passed.

Issue: 26-001

Title: Should complex operator arguments be ref or not?

Status: passed.