Austin Group

Status Update
January 2005

http://www.opengroup.org/austin/

THE *Open* GROUP

Summary

- The Austin Group
- JDOCS Procedures
- Participation
- Objectives
- Scope
- Progress
- Approvals Status
- Maintenance Procedures
- Plenary Meeting Goals

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The *Austin Group*

- The Austin Common Standards Revision Group

- An open industry initiative to revise the core *POSIX standard* and the *Single UNIX Specification*; standards that lie at the heart of todays open systems

- Chair and editors from The Open Group

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The *Austin Group*

- ❑ Electronic participation
- ❑ Participation in the group is free
- ❑ Deliverables:
  - ▪ IEEE Std 1003.1 (POSIX.1) (incl former 1003.2)
  - ▪ The Open Group Base Specifications Issue 6
  - ▪ ISO/IEC 9945
  - ▪ (they are the same document!)

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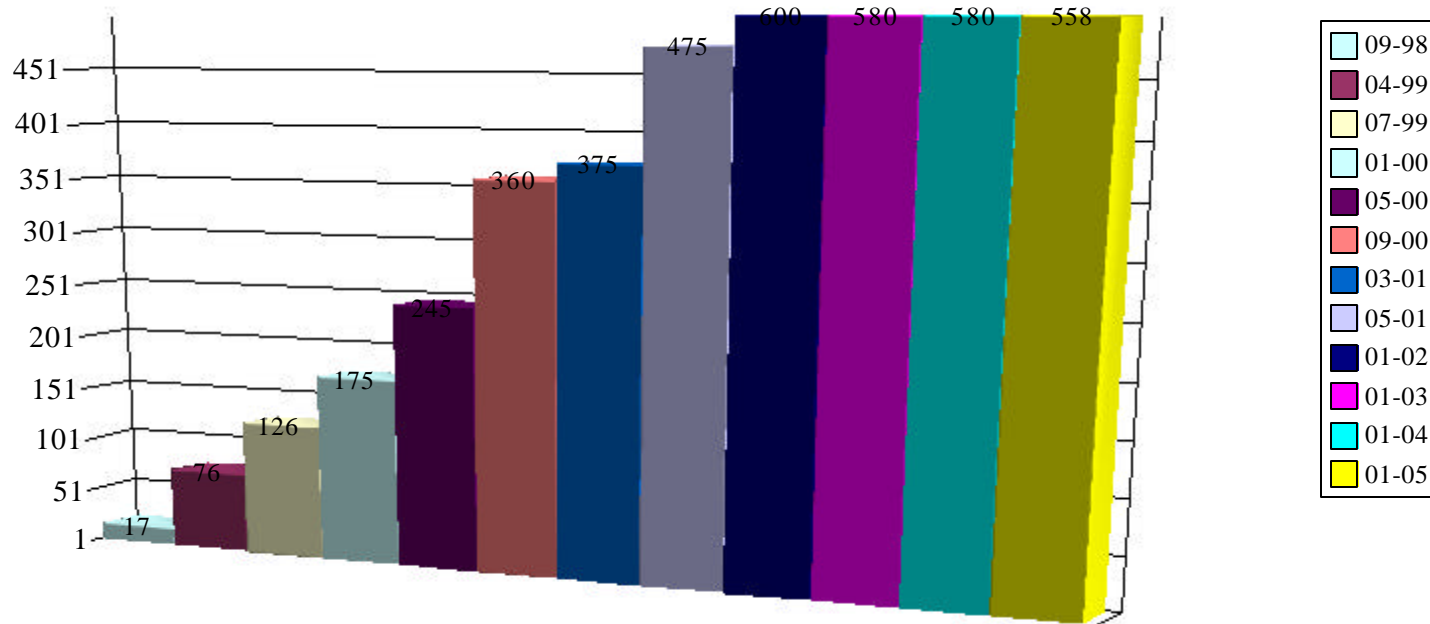
About the *Austin Group*

- 558 Participants (mailing list members as of January 2005)
- Wide industry support,
  - *AT&T, HP, IBM, Lucent, Microsoft, Red Hat, SGI, Siemens, Sun,*
  - *DoD, USENIX*
- Participation in the *Austin Group* from the Open Source community includes
  - *The Linux Standard Base, NetBSD, FreeBSD, and many others.*

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JDOCS Procedures

- ❑ The Austin Group operates under the JDOCS procedures
- ❑ Procedures *approved* by the three organizations
- ❑ Officers
  - ▪ Chair
  - ▪ Three organizational Reps (Ors)

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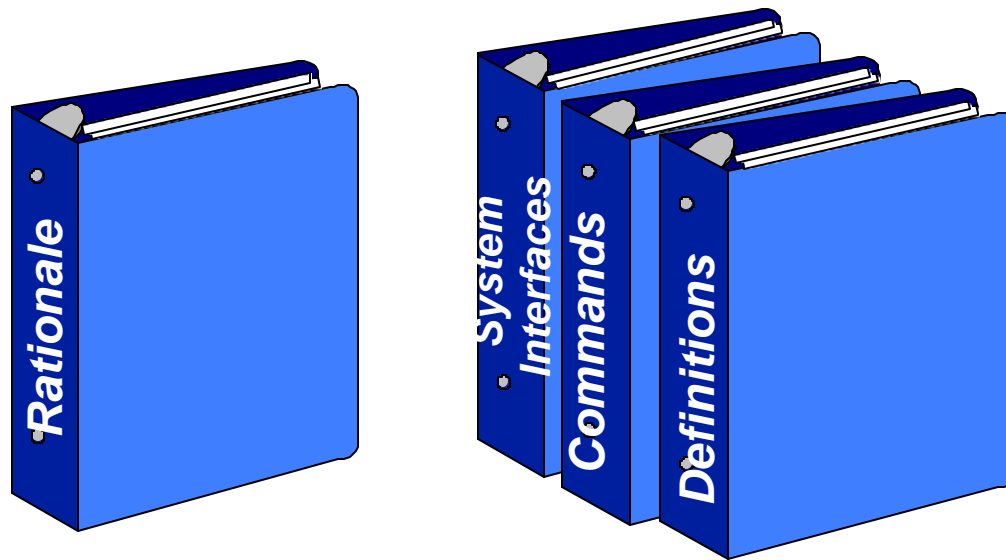# Participation

of Members of the Austin Group Mailing List

Objectives

- To target the joint specification at the programmer / user rather than the system implementor
- Organization based on the Core volumes of the Single UNIX Specification, organized alphabetically, and including Rationale
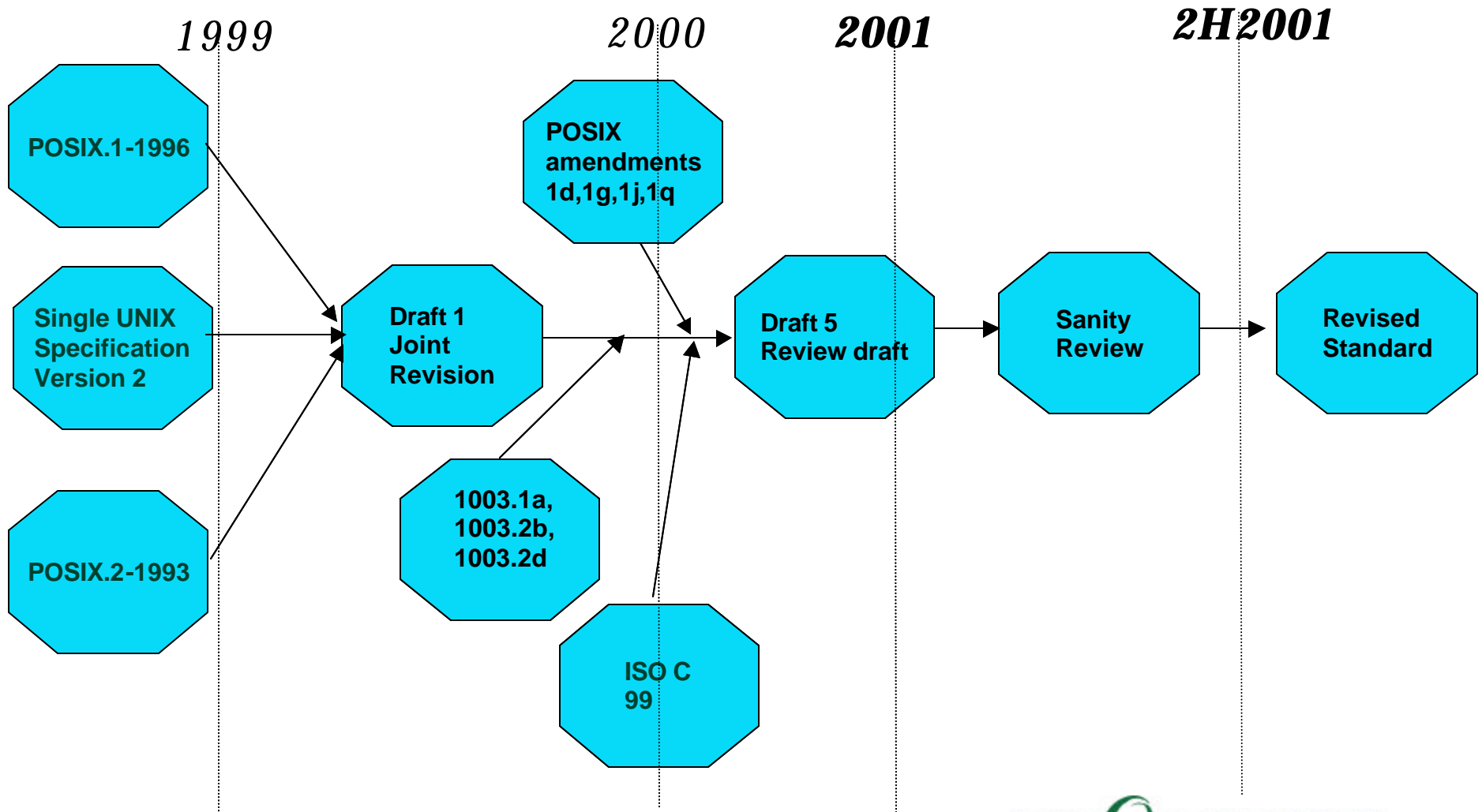- To produce a new standard in year 2001.

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Scope of the revision

- Production of a single document to be adopted by multiple parties
- Minimize the number of changes required to implementations of earlier versions of the Base documents for the revision
- Limit new work items to those related to integration and consistency, resolving any conflicts
- Alignment with the ISO C 1999 standard

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Document Set

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Roadmap

1999   2000   **2001**   **2H2001**

POSIX.1-1996

Single UNIX Specification Version 2

POSIX.2-1993

POSIX amendments 1d,1g,1j,1q

Draft 1 Joint Revision

1003.1a, 1003.2b, 1003.2d

ISO C 99

Draft 5 Review draft

Sanity Review

Revised Standard

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Sept 1998

- First Meeting Sep 1998 *Austin, Texas*
- *Agreed the principles and the scope of the project*

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June 1999

❑ MoU signed between The IEEE and The Open Group

❑ Draft one completed (2500 pages)

- based on core volumes of the Single UNIX Specification

- Alphabetical man pages

- POSIX options and rationale integrated

- Terminology Part 1 (shall instead of will)

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October 1999

- ❑ Draft two completed (2700 pages)
  - ▪ Terminology rework part 2 (more shall).
  - ▪ Conformance rework

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May *2000*

- ❑ Draft three completed (3200 pages)
  - XNS 5 Version 2
    - Sockets
    - IP Address Resolution
  - POSIX 1003.2d (Batch Services)
  - POSIX P1003.1a
  - POSIX P1003.2b
  - POSIX 1003.1d *
  - POSIX P1003.1j *
  - Terminology Part 3 (shall vs must)

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October 2000

- ❑ Draft four completed (3590 pages)
  - ▪ *"Feature complete"*
  - ▪ POSIX 1003.2q
  - ▪ C99 Alignment
  - ▪ XRAT volume

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March 2001

- ❑ Draft five completed (3582 pages)
  - ▪ *First recirculation*
  - ▪ *The Open Group company review*
  - ▪ See reviewers notes for details

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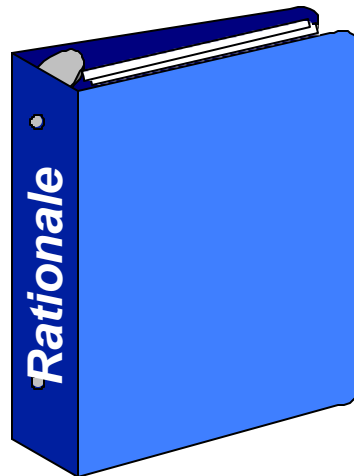
May 2001

- ❑ Draft six completed (3698 pages)
  - ▪ *Second recirculation*
  - ▪ See reviewers notes for details
  - ▪ Sanity review
  - ▪ *Narrowing down process in place*

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June 2001

- ❑ Draft Seven completed (3700 pages)
  - ▪ *Final recirculation*
  - ▪ See reviewers notes for details

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The New Common Specification

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Rationale

System Interfaces   **Commands**   **Definitions**

IEEE Std 1003.1,

ISO/IEC 9945

The Open Group Base
Specifications Issue 6

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Approvals Status

- The Open Group September 12th 2001
- IEEE December 6th 2001
- ISO/IEC 9945:2002 Parts 1 thru 4, November 2002
- Published in hardcopy (3700 pages, 9kg!!), electronic and CDROM

Technical Corrigendum 1

- IEEE December 2002
- The Open Group February 2003
- *2003 Edition of Specifications published March 31st 2003*
- *ISO/IEC 9945:2003 August 2003*

Technical Corrigendum 2

- The Open Group December 2003
- IEEE February 2004
- *2004 Edition of Specifications to be published April 30th 2004*
  - *IEEE Std 1003.1, 2004 Edition*
- *ISO Technical Corrigenda approved in Sep 2004*
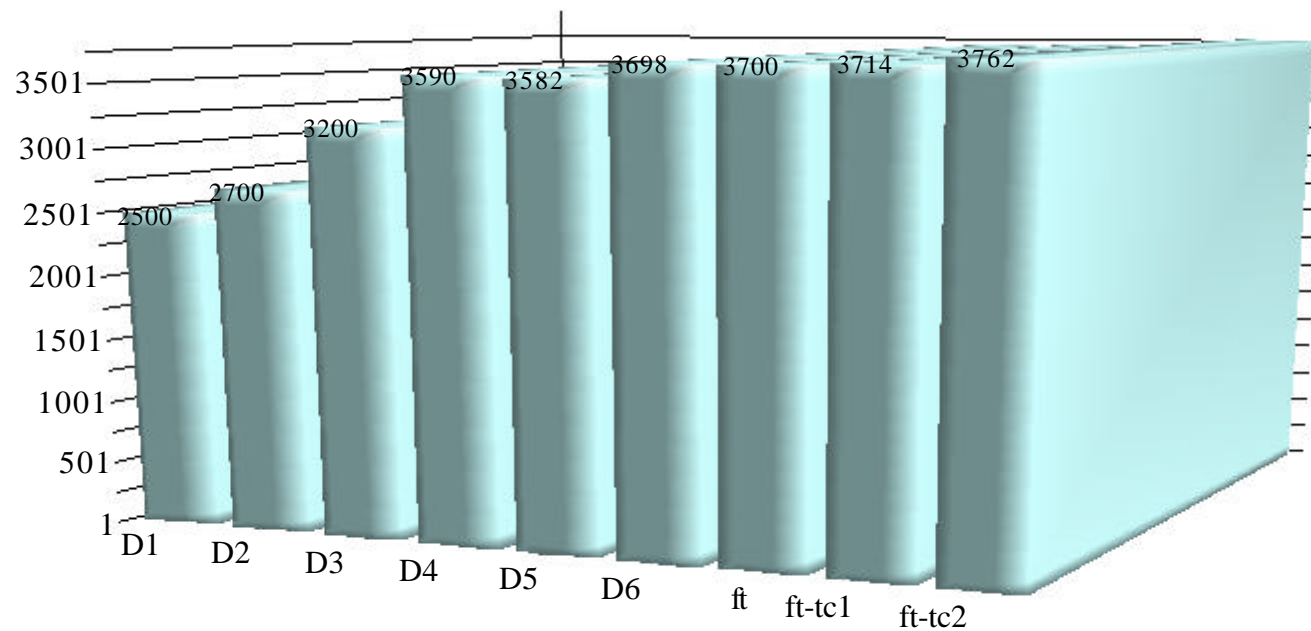
Page Count

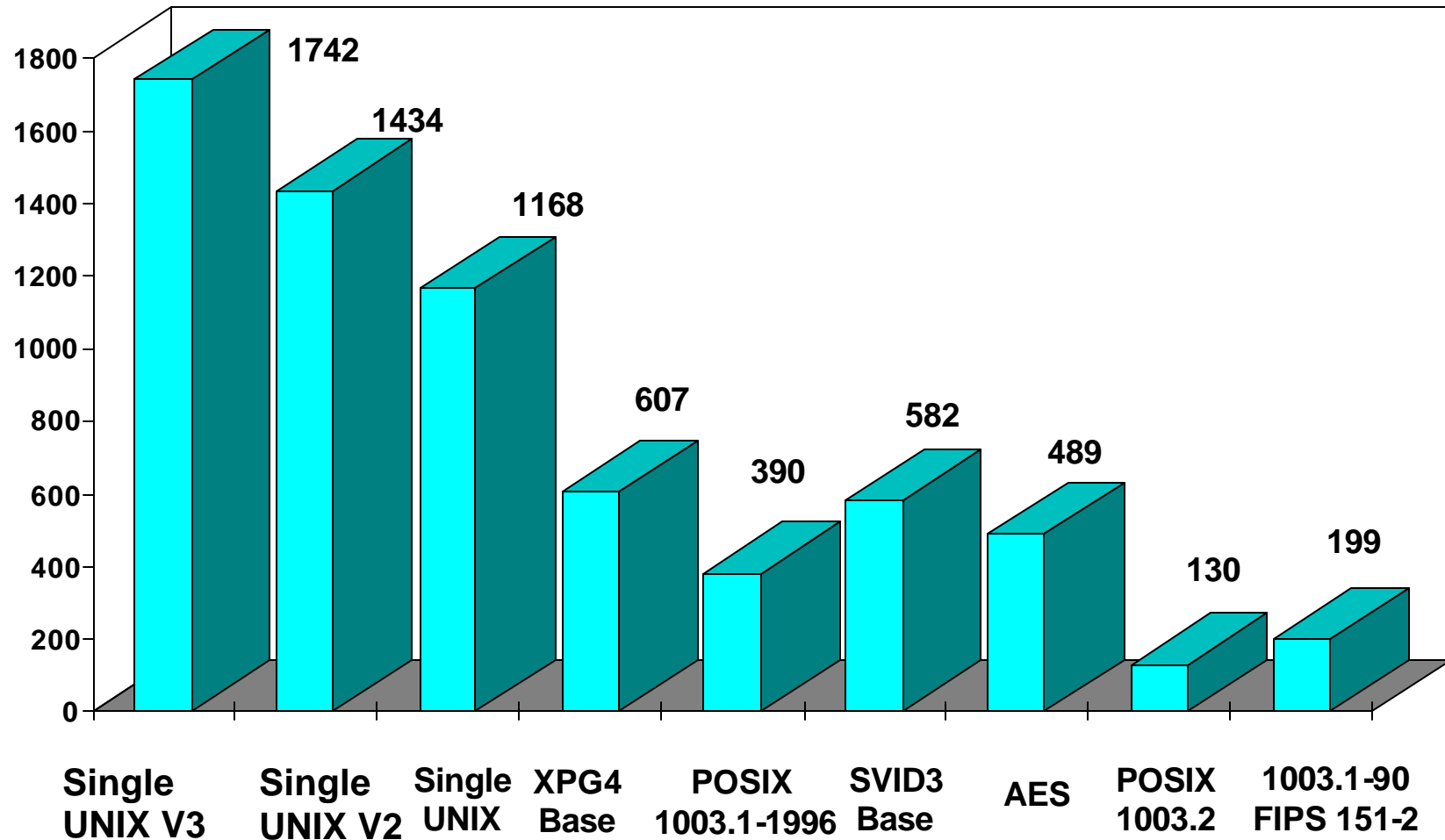## Draft Page count

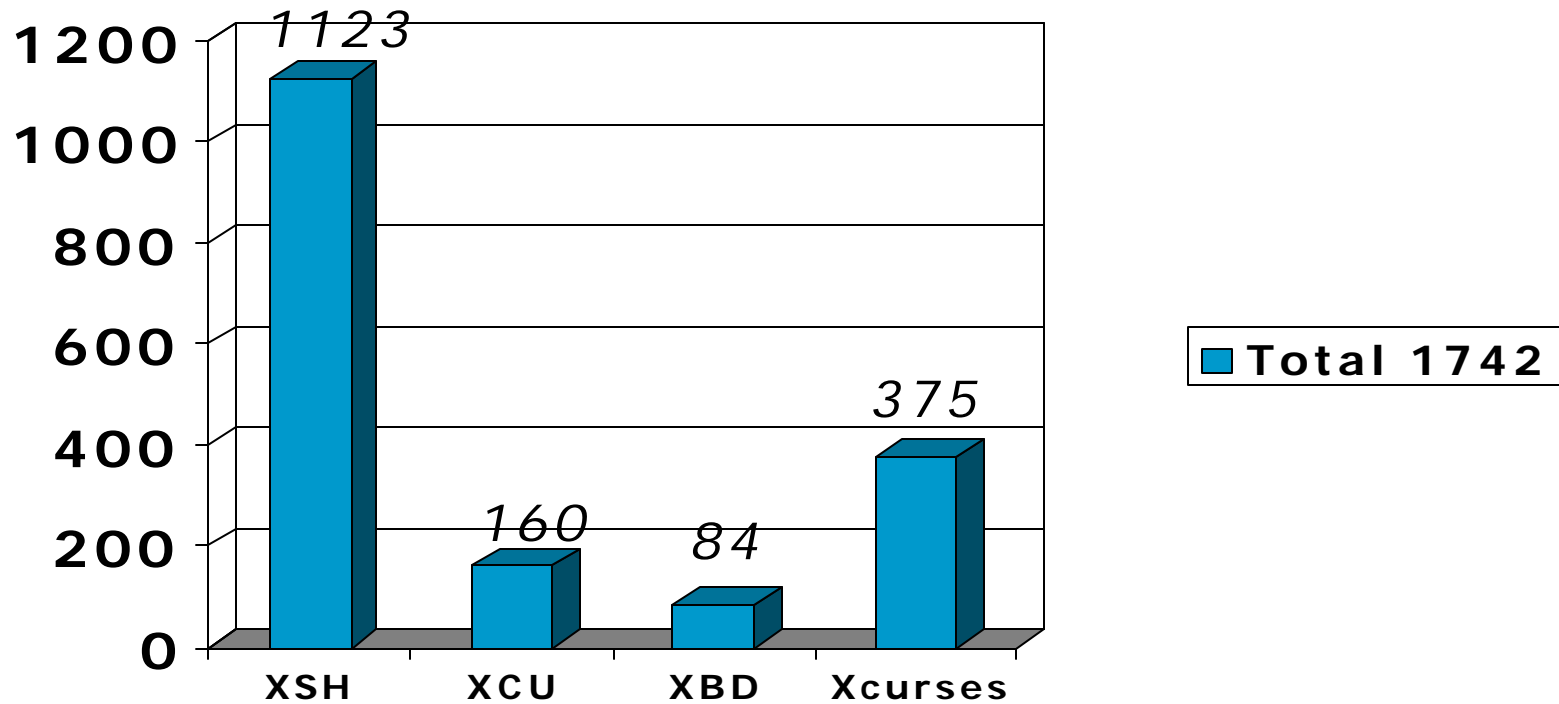|								
2500	2700	3200	3590	3582	3698	3700	3714	3762
D1	D2	D3	D4	D5	D6	ft	ft-tc1	ft-tc2

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Portability Functions

Interface Count

Formal Standards Alignment

- IEEE Std 1003.1,2004 Edition (POSIX.1)
- ISO/IEC 9945:2003 (ISO-POSIX) + ISO TC1
  - The Base Specifications Issue 6 is technically identical to POSIX.1 and ISO-POSIX, they are all one and the same document
- ISO/IEC 9899:1999, Programming Languages – C (ISO C)

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Project PAR and Scope

- ❑ Revised PAR approved Sep 21 2000
- ❑ Clarifies the contents of the document
- ❑ PARs also put in place for TC1 and TC2
- ❑ See document register for details

(PAR is an *IEEE term, for Project Authorization Request)*

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Aardvark Classifications

❑ Objections

  ▪ *If you would vote against approval of the submission if that issue is not resolved*
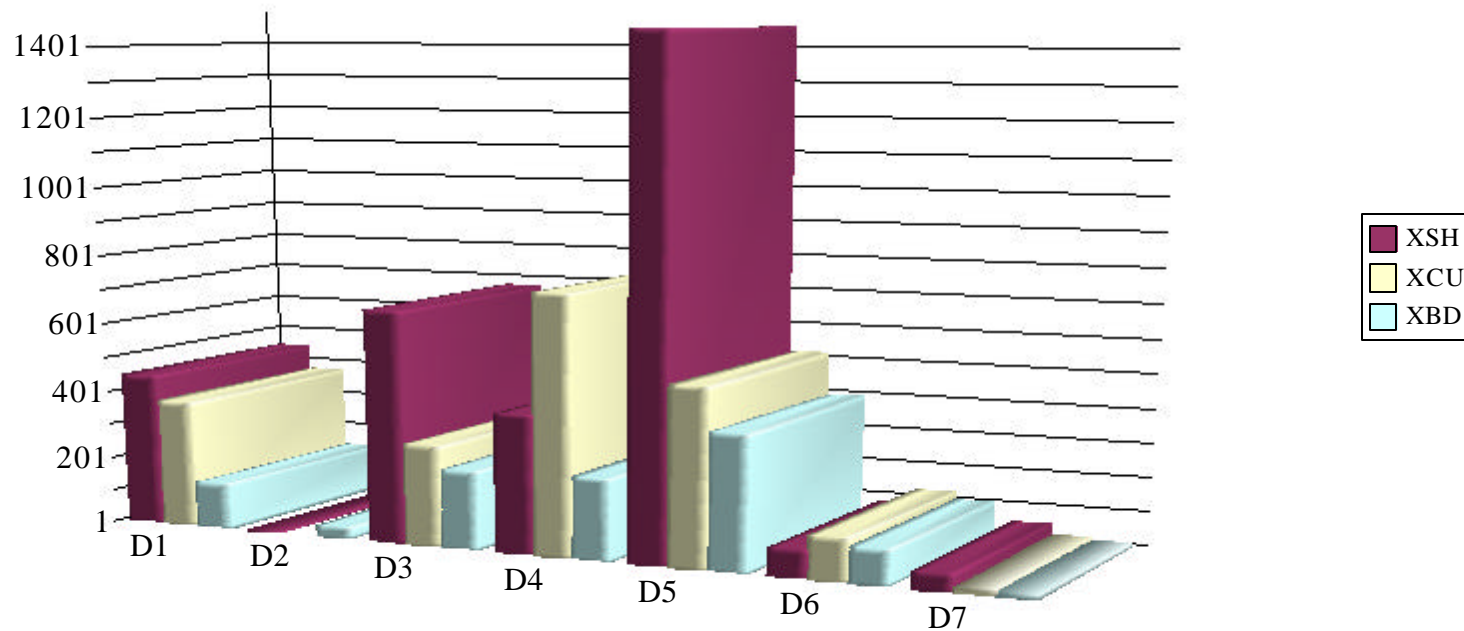
❑ Comments

  ▪ *Where you believe a better solution is available, but the issue would not cause you to vote no*

❑ Editorials

  ▪ *Not discussed at the meeting unless the editors wish to*

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Aardvark Totals (D1-D7)

Aardvark counts

Pro-forma Responses

- R1.Reject: The requirement is from a base document and to change it is out of scope. Bringing it in scope would require an interpretation, corrigenda or resolution from the appropriate body.

- R2. Reject: this interface is not a candidate for Legacy, the list of Legacy interfaces was considered in March 1999 and is now final. It is widely used in historic practise and deprecating this interface would break the contract with the application developer.

- R3. Reject: we cannot see the problem at the referenced lines, as such this comment is non-responsive.

- R4: Reject: no action is specified in the aardvark comment.

- R5: Reject; The review team disagrees with the problem statement because.. ... {further rationale needed}

- R6: Reject: The review team believes that accepting the proposed change would decrease consensus.

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Ballot Status

- Draft 4 was the first draft to go for concurrent IEEE and ISO balloting
- Draft 5 was the Open Group company review draft
- Draft 6 and 7 were recirculation ballots
- TC1 and TC2 have undergone and passed the formal ballot processes

Draft Maintenance Procedures

- ❏ See Austin/112r1
- ❏ Aardvark defect reports are generated and accepted
- ❏ Production of responses to aardvark defect reports including
  - ▪ technical corrigenda
  - ▪ interpretations
- ❏ A policy on new work items proposed for a future revision.

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Scope of Technical Corrigenda Changes

- a. In scope of the original project.
  http://www.opengroup.org/austin/docs/austin_9r6.txt

- b. Non-controversial (a TC is intended to pass ballot at the first attempt)

- c. No new APIs (functions/utilities), however it may add enumeration symbol and non-function #defines and reserve additional namespaces.

- d. Typical use to fix contradictions in the standard, add consistency between the standard and overriding standards, and to fix security-related problems

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Interpretations Process

- An interpretation does not change the meaning of the standard.

- Notes to the editor (not part of the formal interpretation) are expected to be considered in the next revision of the standard.

- An interpretation may be controversial.

- There are formal rules for the interpretations process, and proforma guidelines for responses

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New Work Items

❑ From time to time, an aardvark defect report may propose new work items that are outside the scope of maintenance

❑ The Austin Group is not a development body for new material apart from integration issues arising from the merger of the approved standards that were the Base documents into the revision.

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Criteria for New Work Items

- 1. A written specification must exist that has undergone a formal consensus based approval process and is suitable for inclusion.

- 2. There must be an implementation, preferably a reference implementation.

- 3. The specification must be "sponsored" by one of three organizations (The Open Group, IEEE, WG15) within the Austin Group,

- 4. Submitters must provide an outline plan of the editing instructions to merge the document with the Austin Group specifications

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Plenary Meeting Goals

❑ Generate the work plan for 2005-2007

❑ Discuss proposals for new work items

❑ Resolution of the open aardvark input to date.

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Further Information

- ❑ The Austin Group
  - ▪ *http://www.opengroup.org/austin*
- ❑ *The IEEE PASC Web Site*
  - ▪ *http://www.pasc.org*
- ❑ *The Single UNIX Specification*
  - ▪ *http://www.UNIX-systems.org*

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How You Can Help?

- **To participate in the *Austin Group*, send email to**
  - *austin–group–request@opengroup.org* with the word *subscribe* in the subject line
- **Visit the web site**
  - *http://www.opengroup.org/austin/*

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