

Software Management

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Topics

- Release Management
- Migration to ISO C++ , status and plan
- Code clean-up
- Web page management
- Problem Reporting System, CVS, etc...

Release Management

- Planning of release, release period
- Preparation of release
 - Q/A testing; CC informed on results
 - Specials: e.g. add Geant4 Liability Disclaimer
 - Files for distribution through web
 - Central installation on AFS

GEANT4 Liability Disclaimer

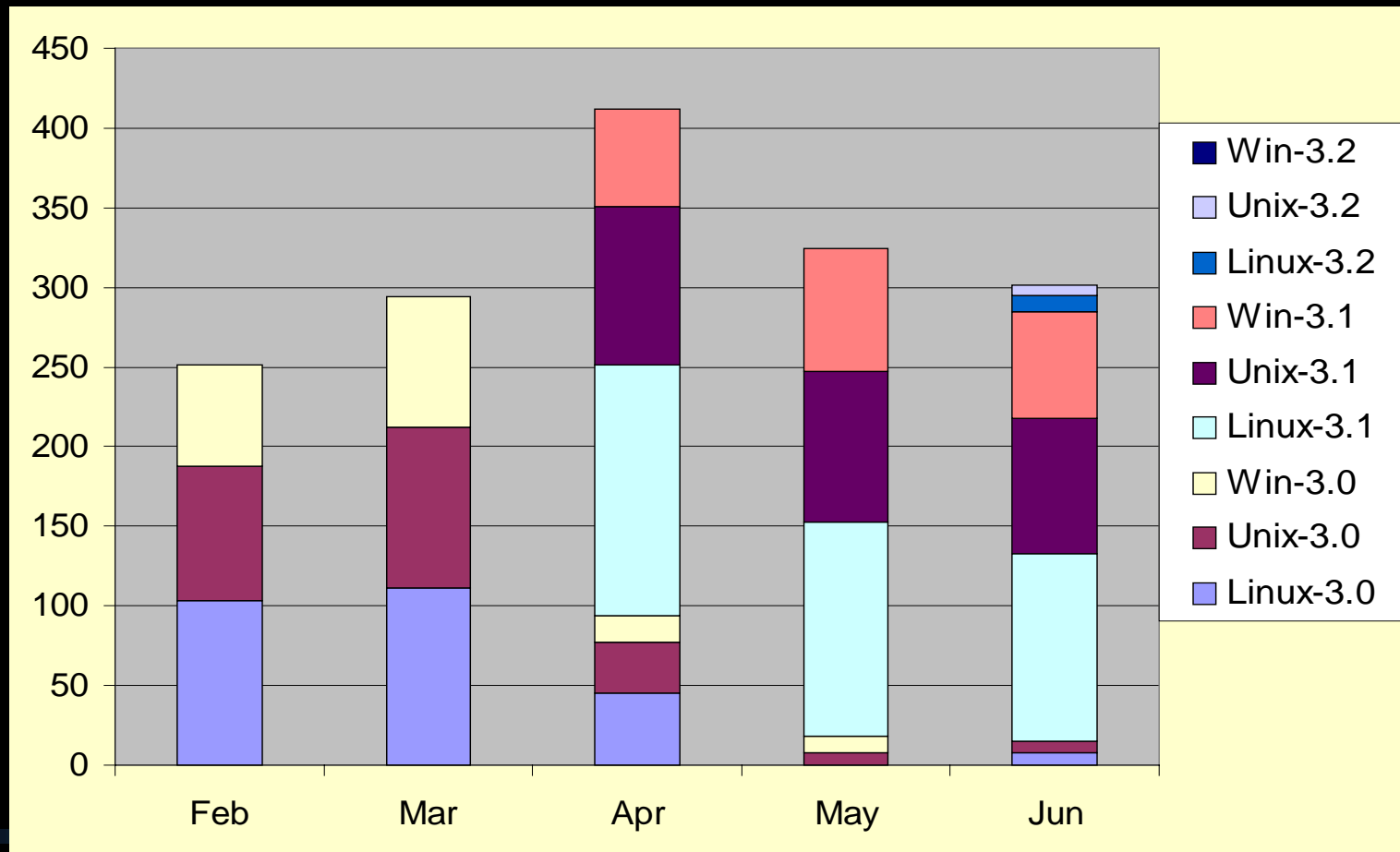
- Add to most source code files
 - Done for release branch
- Still to be done for HEAD
 - Planned for mid of next week, unless...
 - Any constructive critics on text of disclaimer?

Geant4 Disclaimer:

```
// *****
// * DISCLAIMER *
// *
// * The following disclaimer summarizes all the specific disclaimers *
// * of contributors to this software. The specific disclaimers, which *
// * govern, are listed with their locations in: *
// *
// *      http://cern.ch/geant4/license *
// *
// * Neither the authors of this software system, nor their employing *
// * institutes, nor the agencies providing financial support for this *
// * work make any representation or warranty, express or implied, *
// * regarding this software system or assume any liability for its *
// * use. *
// *
// * This code implementation is the intellectual property of the *
// * GEANT4 collaboration. *
// * By copying, distributing or modifying the Program (or any work *
// * based on the Program) you indicate your acceptance of this *
// * statement, and all its terms. *
// *****
```

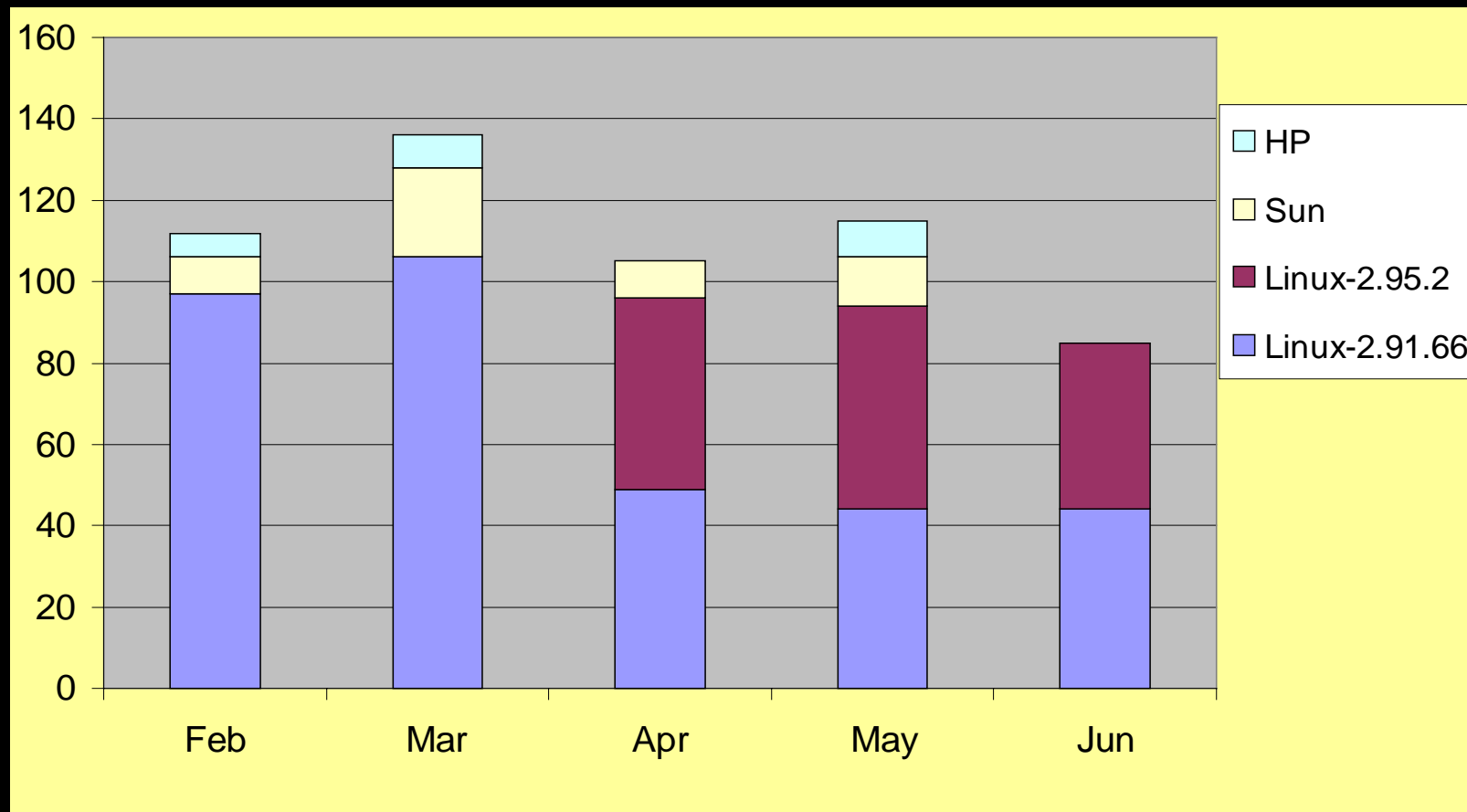
Geant4 Release distribution

- Source and compiled formats
 - Source tar files



Geant4 Release distribution

- Library tar files for supported platforms



Central Installation

- Central installation in
 - /afs/cern.ch/sw/geant4/releases/..
 - ../share/geant4.3.2 or ../share/geant4.3.1.ref01
 - ../specific/redhat61/gcc-2.95.2/geant4.3.2
- Archive and shared libraries
- debug libraries for releases
- Persistency enabled
- Enabled UI/GUI/VIS/Analysis drivers:
 - UI: Terminal, GAG, Xaw Xm, Wo
 - VIS: Dawn (file, network), Opacs, OpenGL
 - Analysis(Linux ONLY): JAS, Lizard, Lab

Migration to ISO C++

- First discussed at GEANT4-ESA Workshop in 1999
 - Each WG to estimate effort and present plan
- Current status:
 - Many categories done
 - Categories with explicit G4RW... (simple grep)
 - digits+hits
 - event
 - g3tog4
 - intercoms
 - Materials
 - persistency
 - processes/electromagnetic, both standard & low EM
 - processes/hadronic
 - tracking
 - visualization

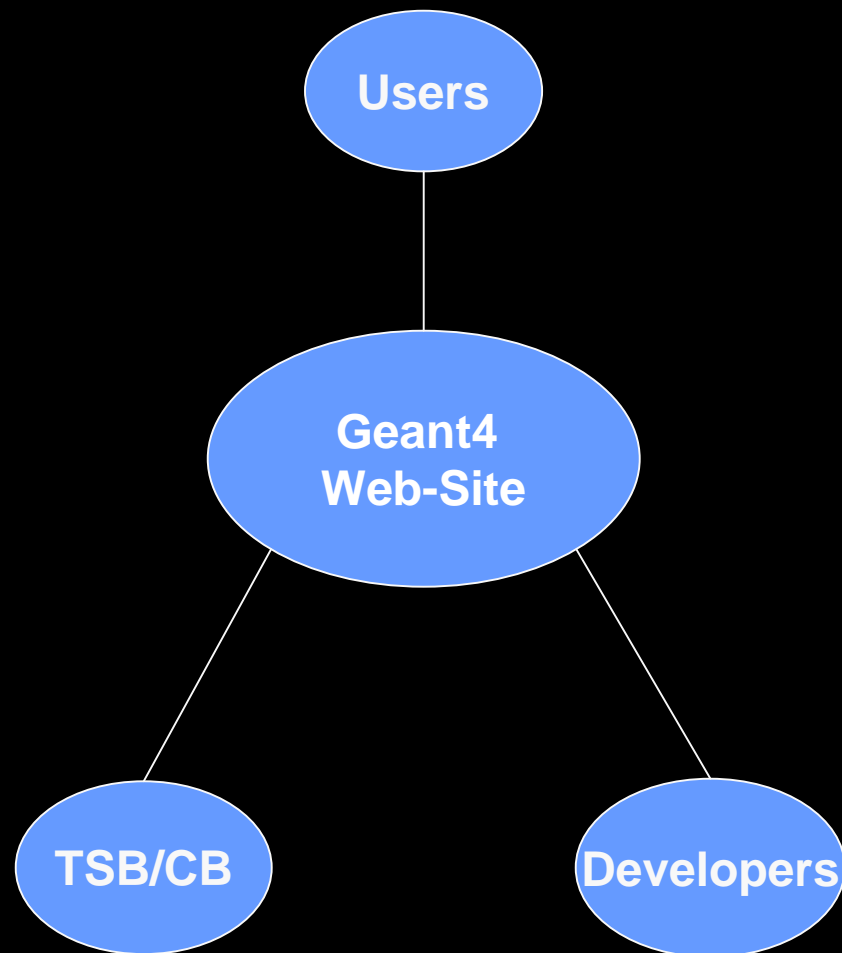
Code Clean-up

- Software Quality
 - Use of uninitialised variables
 - Assignment to/from wrong type
 -
- gcc has options for strict rules
- Will be default from now on
- Correct header files first!
 - Experiments already use strict options
 - Sloppiness in G4 headers seen by many users

Geant4 Web

- Criticized frequently:
 - Geant4 external review
 - More frequent updates
 - Private pages
 - Design iteration suggested as milestone for 2001

Geant4 Web Problems



Web master

- Few active authors
- No WG (or part of) for web
- No web team

Actions for Geant4 Web

- Review existing pages
 - Volunteers?
 - Result:
 - Proposal for new layout, at least top level
 - Suggestions for other improvements
- Group of content providers needed
- Associate with WG