

# **SFT-CORE-ROOT team structure**

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**Rene Brun**  
**4 March 2005**

# plan

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- Team weekly meeting
- Preliminary Team structure
- Milestones: How to proceed
- CVS
- Conventions
- Librarian

# Weekly meeting

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- I propose to have a weekly team meeting
  - With reports from each work package
  - With one more detailed presentation
- Minutes on the web
- Proposed day/time : Friday at 11h00

# Merging Teams

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- In the coming slides a proposal to structure the new SFT-CORE-ROOT unit merging the SEAL and ROOT teams.
- Action plan for the short term, such that we will be in a position to present and propose the organization and orientation at the coming review (March 30, April 1).

# From Seal

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- Reflex/Cintex packages
  - Pere Mato(2002->), Stefan Roiser(2003->)
- POOL & LHCB
  - Markus Frank (50%) (2002->)
- Mathlibs
  - Lorenzo Moneta(2003->), Andras Zsenei(2004->)
- LBL
  - Wim Lavrijsen (?/%) (2003->)

# From ROOT

- **BASE & System & CVS & DOC & Releases & Test suite & newsgroups**  
Rene, Fons, Philippe, Bertrand, Ilka, Axel, Jose
- **CINT**  
Masa, Philippe
- **Dictionary & Basic I/O & Trees**  
Philippe, Rene
- **PROOF & xrootd & GRIDs**  
Maarten, Kris, Fons, Gerri, Marek,  
Guenter + BaBar
- **Maths & Histograms**  
Rene, Eddy, Anna
- **GUI**  
Ilka, Valeriy, Bertrand, Valeri, Fons, Rene
- **2-D & 3-D graphics & Geometry**  
Olivier, Andrei, Mihaela, Richard, Timur, Bruno, Rene
- **VirtualMC**  
Andrei, Rene, Ivana
- **Misc**  
XML (Sergei), PyRoot (Wim), Ruby(Elias),  
MLP(Christophe)

Ilka Antcheva (2003->)  
Elias Athanatopoulos GR 10% (2004->)  
Maarten Ballinjin MIT 80% (1996->)  
Bruno Belbute 100% (2005) Pt  
Bertrand Bellenot ALCAN 50% (1999->)  
Marek Biskup (2004-2005)  
Rene Brun (1995->)  
Philippe Canal FNAL (1998->)  
Olivier Couet (2001->)  
Christophe Delaere BE 10% (2003->)  
Valeri Fine BNL 10% (1995->)  
Gerri Ganis (2003->)  
Andrei Gheata ALICE 80% (2001->)  
Mihaela Gheata unpaid 50% (2003->)  
Masa Goto JP ??% (1995->)  
Kris Gulbrandsen MIT 80% (2003->)  
Ivana Hrivnocova ORSAY 10% (2001->)  
Guenter Kickinger 100% (2005) Au  
Anna Kreshuk (2004->)  
Sergei Linev GSI 60% (2001->)  
Jose Lo 75% (2005) Pt  
Richard Maunder (2004->)  
Axel Naumann FNAL (1999->)  
Eddy Offermann RENTEC 50% (1999->)  
Valeriy Onuchin (2000->)  
Timur Pocheptov JINR 80% (2004->)  
Fons Rademakers (1995->)

+xrootd  
BaBar

# Proposed team structure

- **BASE & System & CVS & DOC & Releases & Test suite & newsgroups**  
Fons, Philippe, Pere, Bertrand, Ilka, Axel,  
Jose, Rene
- **CINT**  
Masa, Philippe, Markus, Stefan
- **Dictionary & Basic I/O & Trees & Pyroot**  
Markus, Philippe, Stefan, Wim
- **PROOF & xrootd & GRIDs**  
Fons, Maarten, Kris, Gerri, Marek ,  
Guenter+ BaBar
- **Maths, Histograms, Functions, Linear Alg**  
Lorenzo, Andras, Anna, Eddy
- **GUI**  
Ilka, Valeriy, Bertrand, Valeri, Fons
- **2-D & 3-D graphics & Geometry**  
Olivier, Richard, Andrei, Mihaela, Timur, Bruno

<b>Ilka Antcheva</b>	
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<b>Bertrand Bellenot ALCAN 50%</b>	
<b>Bruno Belbute 100%</b>	
<b>Marek Biskup</b>	
<b>Rene Brun</b>	
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<b>Wim Lavrijsen LBL 50%</b>	
<b>Sergei Linev GSI 60%</b>	
<b>Jose Lo 75%</b>	
<b>Pere Mato</b>	+xrootd
<b>Richard Maunder</b>	
<b>Lorenzo Moneta</b>	BaBar
<b>Axel Naumann FNAL</b>	
<b>Eddy Offermann RENTEC 50%</b>	
<b>Valeriy Onuchin</b>	
<b>Timur Pocheptov JINR 80%</b>	
<b>Fons Rademakers</b>	
<b>Stefan Roiser</b>	
<b>Andras Zseni</b>	

ROOT-CORE Team

# Current ROOT & SEAL source structure

ROOT: 761215

176982 cint  
 55953 win32gdk  
 38559 gui  
 36745 base  
 36595 tutorials  
 31592 geom  
 30431 hist  
 27078 matrix  
 20754 test  
 18967 graf  
 12945 tree  
 11714 treeplayer  
 10389 cont  
 10352 table  
 10068 net  
 9970 meta  
 9586 histpainter  
 9501 gpad  
 9318 gl  
 9281 win32  
 8710 proof  
 8084 zip  
 8044 ged  
 7924 qt  
 7743 globusauth  
 7136 g3d  
 7060 clib  
 6616 minuit  
 6578 rpdutils  
 6392 x11

5982 build  
 5235 eg  
 4859 postscript  
 4786 xml  
 4626 winnt  
 4383 treeviewer  
 4355 guibuilder  
 4189 netx  
 4049 utils  
 4043 asimage  
 3989 html  
 3844 physics  
 3393 geompainter  
 3261 roots  
 3146 mlp  
 3104 quadp  
 3082 x3d  
 3011 main  
 3008 unix  
 2977 pyroot  
 2476 venus  
 2286 top\_dir  
 1912 thread  
 1900 rint  
 1771 rootd  
 1692 vms  
 1521 fumili  
 1384 alien  
 1349 pythia  
 1275 clarens

1196 hbook  
 1108 vmc  
 1044 ruby  
 816 krb5auth  
 793 newdelete  
 770 pythia6  
 700 rootx  
 669 ldap  
 620 sapdb  
 599 proofd  
 598 srputils  
 593 rfio  
 579 peac  
 558 config  
 463 metautils  
 451 dcache  
 377 mysql  
 369 pgsq  
 310 x11tff  
 224 chirp  
 172 macros  
 147 gedold  
 104 qtroot

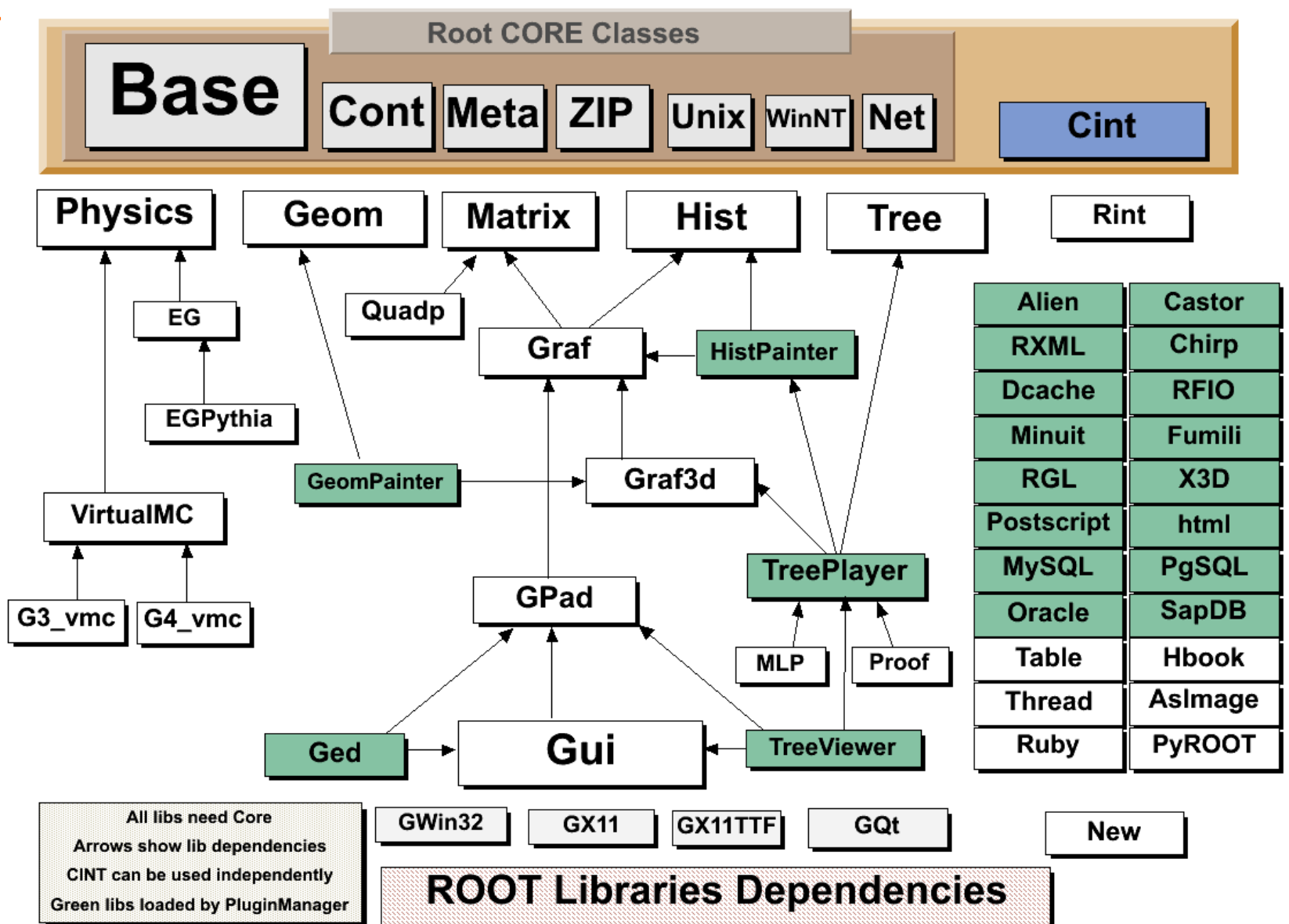
SEAL 112241

44861 Foundation  
 22788 Dictionary  
 19240 MathLibs  
 17249 Scripting  
 5109 Framework  
 1800 Extensions  
 716 config

28828 SealBase  
 7807 SealZip  
 3555 SealIOTools  
 3202 PluginManager  
 836 SealUtil  
 267 SealPlatform  
 163 PluginChecker  
 69 PluginDumper  
 62 SealTest  
 38 PluginRefresh  
 34 PluginCaps  
 8598 Reflex  
 3374 Reflection  
 3134 DictionaryGenerator  
 2854 ReflectionBuilder  
 2146 CMSEexamples  
 1977 Cintex  
 463 SealROOT  
 140 SealCLHEP  
 73 SealSTL  
 29 SealDict  
 9450 Minuit  
 6389 FML  
 3005 MathCore  
 4752 Pyreflex  
 4513 PyLCGDict2  
 3137 PyBus  
 2564 PyROOT  
 2283 PyLCGDict  
 2954 SealKernel  
 2155 SealServices



# Current ROOT structure & libs



# BASE: infrastructure

Fons.Rademakers, Philippe.Canal, Pere.Mato, Bertrand.Bellenot,  
Ilka.Antcheva, Jose.Lo, Axel.Naumann, Rene.Brun

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176982 cint  
55953 win32gdk  
38559 gui  
36745 **base**  
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31592 geom  
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27078 matrix  
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18967 graf  
12945 tree  
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10389 **cont**  
10352 **table**  
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9501 gpad  
9318 gl  
9281 **win32**  
8710 proof  
8084 **zip**  
8044 ged  
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7743 globusauth  
7136 g3d  
7060 **clib**  
6616 minuit  
6578 rpdutils  
6392 x11

5982 **build**  
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3989 **html**  
3844 physics  
3393 geompainter  
3261 roots  
3146 mlp  
3104 quadp  
3082 x3d  
3011 **main**  
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2476 venus  
2286 top\_dir  
1912 **thread**  
1900 **rint**  
1771 rootd  
1692 **vms**  
1521 fumili  
1384 alien  
1349 pythia  
1275 clarens

1196 hbook  
1108 vmc  
1044 ruby  
816 krb5auth  
793 **newdelete**  
770 pythia6  
700 **rootx**  
669 ldap  
620 sapdb  
599 proofd  
598 srputils  
593 rfio  
579 peac  
558 **config**  
463 metautils  
451 dcache  
377 mysql  
369 pgsq  
310 x11tff  
224 chirp  
172 **macros**  
147 gedold  
104 qtroot

44861 **Foundation**  
22788 Dictionary  
19240 MathLibs  
17249 Scripting  
5109 **Framework**  
1800 Extensions  
716 config

System and OS classes

Plug-in Manager

Configuration

Build

Releases

General utilities

CVS management

Documentation

# CINT, DICTIONary and I/O

Markus.Frank, Philippe.Canal, Masa.Goto,  
Stefan.Roiser, Wim.Lavrijsen

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558 config  
463 **metautils**  
451 **dcache**  
377 **mysql**  
369 **pgsql**  
310 x11tff  
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172 macros  
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CINT as interpreter

Reflexion

Basic I/O

Tree I/O

Tree Queries

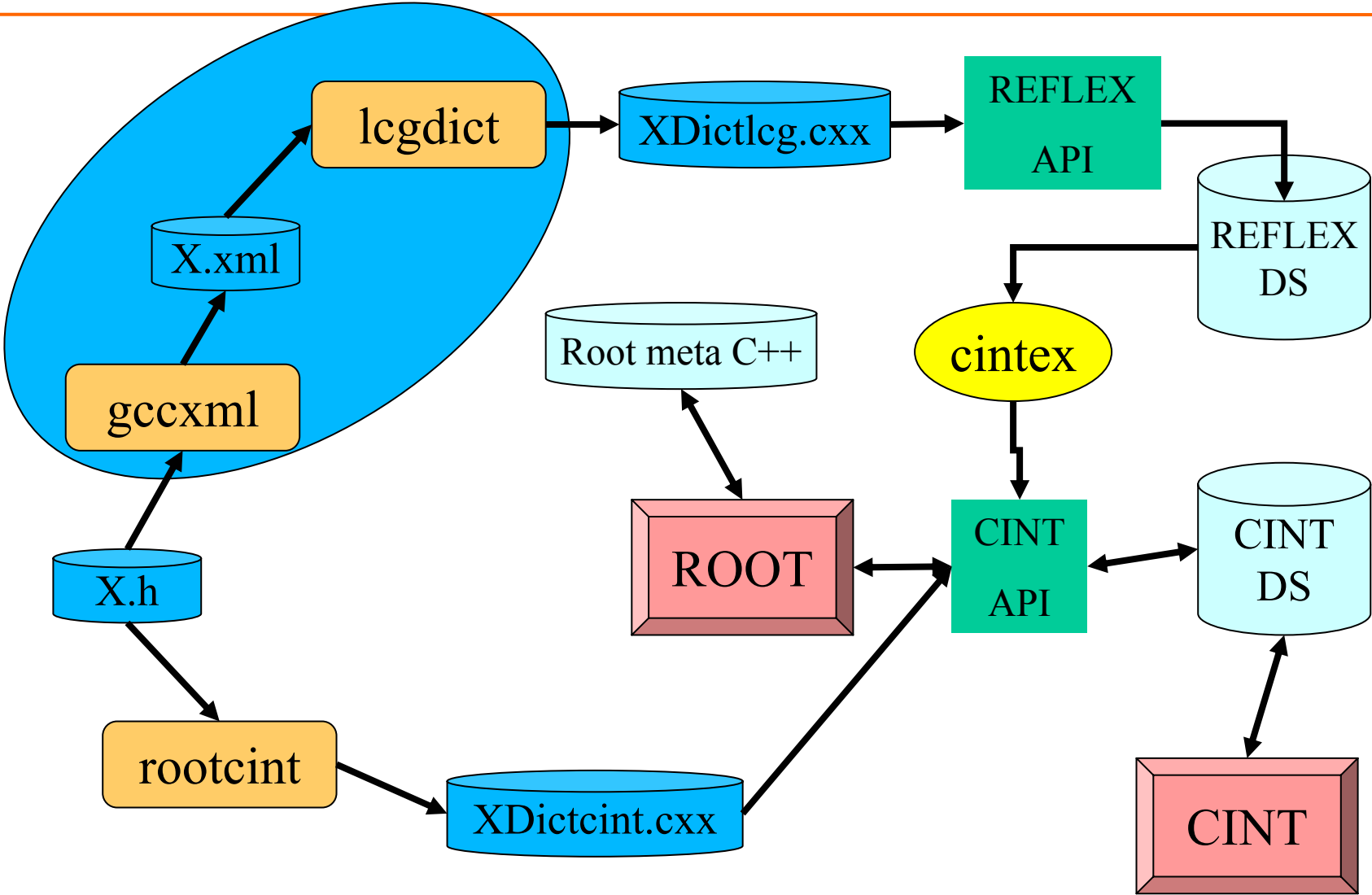
XML

SQL interfaces

Python

Ruby

# Dictionaries : situation today



# MATH

Lorenzo.Moneta, Andras.Zsenei, Anna.Kreshuk, Eddy.Offermann

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**TMath, Seal::Mathlibs**

**Functions, Histograms**

**Fitting, Minuit, Minuit2,  
Fumili**

**TLinearFitter,  
TRobustfitter**

**Linear Algebra, Quadp**

**Physics vectors**

**Statistics**

**TMultilayerPerceptron**

**Eg, Pythia, Venus**

**VMC**

ROOT-CORE Team

# GUI

**Ilka.Antcheva, Bertrand.Bellenot, Valeriy.Onuchin,  
Valeri.Fine,Fons.Rademakers**

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**GUI widgets**

**GUI Builder**

**Graphics Editors**

**QT , win32, X11**

**TreeView**

# Graphics

Olivier.Couet, Richard.Maunder, Timur.Pocheptsov,  
Andrei.Gheata, Mihaela.Gheata, Bruno.Belbute

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**Histogram painters**

**Functions painters**

**2-D and 3-D pad graphics**

**Postscript, PDF, PNG, etc**

**TASImage, libAfterImage**

**3-D viewers**

**OpenGL**

**Geometry viewers**

# PROOF

Fons.Rademakers, Maarten.Ballantijn, Gerri.Ganis,

Marek.Biskup, Kris.Gulbrandsen, Guenter.Kickinger

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558 config  
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451 **dcache**  
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**Proof**

**Authentication**

**Network classes**

**rootd, xrootd,**

**grid, glite, clarens,  
peac**

**dcache, chirp**



# How to proceed with the merge

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- I would like to see quick actions such that
  - We can plan accordingly for the June release
  - We can propose/discuss the action plan with the experiments
- Short term discussions (before end of March) to:
  - Test gccxml/Reflex/Cintex portability in ROOT context
  - SEAL libraries for experiments and evolution.
  - I propose that Fons and Lassi come soon with a proposal to merge SEAL/Foundations with the ROOT base.
- Mini workshop proposed in (May 2->6) to discuss CINT/Reflex/Cintex with:
  - Masa, Philippe, Markus, Stefan, Fons, Rene
- Discussions with POOL
  - RootStorage simplification
  - RAL, Object-Relational storage & TTreeSQL
- In the coming few weeks a proposal from Lorenzo for a strategy with TMath, GSL, Fitting, MathCore,etc. future of CLHEP.

# CVS structure and check-in

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- So far only Fons & Rene for check-in
  - Checkers have access to all machines
  - Commitment to have CVS head always working
- With the new team size, I propose to open the check-in rights to package managers.
- Should we move the CVS servers to SPI?
  - Not in the short term
  - Currently we have a very nice HP server with 6 processors.
- In a first phase where we have to maintain the SEAL libraries, work with tar files imported in the ROOT CVS?
- See how to proceed with Reflex/cintex and CVS after the mini-workshop in May.
- Mathlibs in CVS should be easier.

# Coding conventions

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- We have our existing coding conventions and rules.
- Merge two cultures
- At the next meeting, Fons will present the current ROOT conventions. Please give input to him with your remarks, proposals if any.
- People with check-in rights must:
  - Take the commitment to verify the rules before check-in.
  - Test on all supported platforms
- Should we adopt a rule checker with results published on the team internal web site?
- Copyright and License to be discussed

# Librarian

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- The librarian has a key role. He does more than compiling on all platforms.
- He must be aware of all facets of the project.
- He must understand the procedure and convergence to build a release.
- He must be feel on duty more than just 8h per day and 5 days per week. 😊
- I have been the librarian for ROOT for 10 years. We must find a candidate.

# ROOT mailing and NewsGroups

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- **roottalk@root.cern.ch**
  - Mailing list gradually replaced by Forum
- **rootForum**
  - Web-based newsgroup with about 10 discussion sub-units
- **rootdev@root.cern.ch**
  - Developers list
- **root-bugs@root.cern.ch**
  - To report bugs (bugs data-base)
- **rootcvs@root.cern.ch**
  - List of people receiving the CVS logs

# RootTalk Digest

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This mailing list is used to keep you up to date about important ROOT events (new releases, urgent bug fixes, etc.). This list is also used to discuss anything concerning ROOT with your fellow ROOT users and with the developers.

To subscribe to the roottalk list see the "[User Registration Form](#)".


Currently available digests:

- [All articles of 2005](#)
- [All articles of 2004](#)
- [All articles of 2003](#)
- [All articles of 2002](#)
- [All articles of 2001](#)
- [All articles of 2000](#)
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# ROOT Discussion Forum



**ROOT**  
An Object-Oriented  
Data Analysis Framework

**RootTalk**  
ROOT Discussion Forums

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<b>ROOT</b>			
<b>ROOT Support</b> Get help with installing and running ROOT here. Please <b>do not</b> post <a href="#">bug reports</a> or <a href="#">feature requests</a> here. Moderator <a href="#">rootdev</a>	770	3010	Thu Mar 03, 2005 10:50 <a href="#">j.d.frankland</a> →
<b>ROOT Discussion</b> Discuss ROOT here. Please <b>do not</b> post support requests, <a href="#">bug reports</a> , or <a href="#">feature requests</a> ! Non-ROOT questions and discussion goes in General Chat! Moderator <a href="#">rootdev</a>	682	2500	Thu Mar 03, 2005 12:48 <a href="#">DmitryNaumov</a> →
<b>ROOT Documentation</b> Discuss the ROOT documentation here. Moderators <a href="#">antcheva</a> , <a href="#">rootdev</a>	18	46	Wed Feb 09, 2005 9:47 <a href="#">brun</a> →
<b>Carrot</b> Discuss <a href="#">Carrot</a> , the ROOT Apache module, here. Moderators <a href="#">Valeriy Onuchin</a> , <a href="#">rootdev</a>	24	132	Tue Mar 01, 2005 18:50 <a href="#">asif</a> →
<b>My ROOT App</b> Tell us about your ROOT application. Moderator <a href="#">rootdev</a>	11	26	Tue Mar 01, 2005 5:00 <a href="#">ardashev</a> →
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<b>CINT Bugs and Features</b> Report CINT bugs and feature requests here. Please <b>do not</b> post support requests. Moderator <a href="#">cintdev</a>	53	178	Tue Mar 01, 2005 10:53 <a href="#">stuebiner</a> →

# General observations

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- Developing new code is certainly the most attractive thing for most of us. However, the success of a project is measured also by the quality of the support.
- Our priorities must be in the following order of importance:
  - Answering mails. The quality of support is perceived to be inversely proportional to the response time.
  - Fixing bugs
  - New developments