

# **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>Bruno Belbute 100%</b>	
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<b>Rene Brun</b>	
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<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

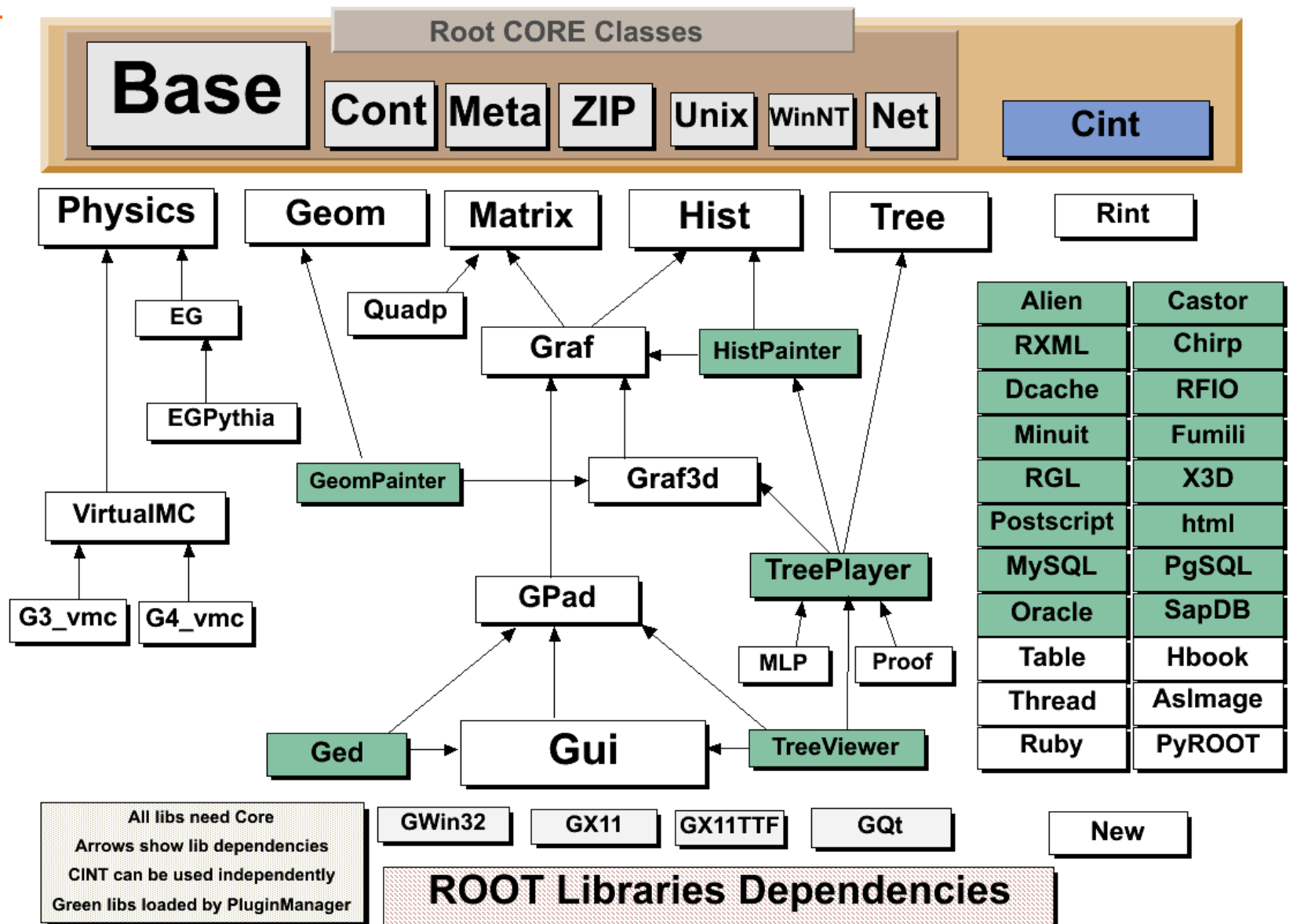
SEAL 112241

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  
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1196 hbook  
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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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CINT as interpreter

Reflexion

Basic I/O

Tree I/O

Tree Queries

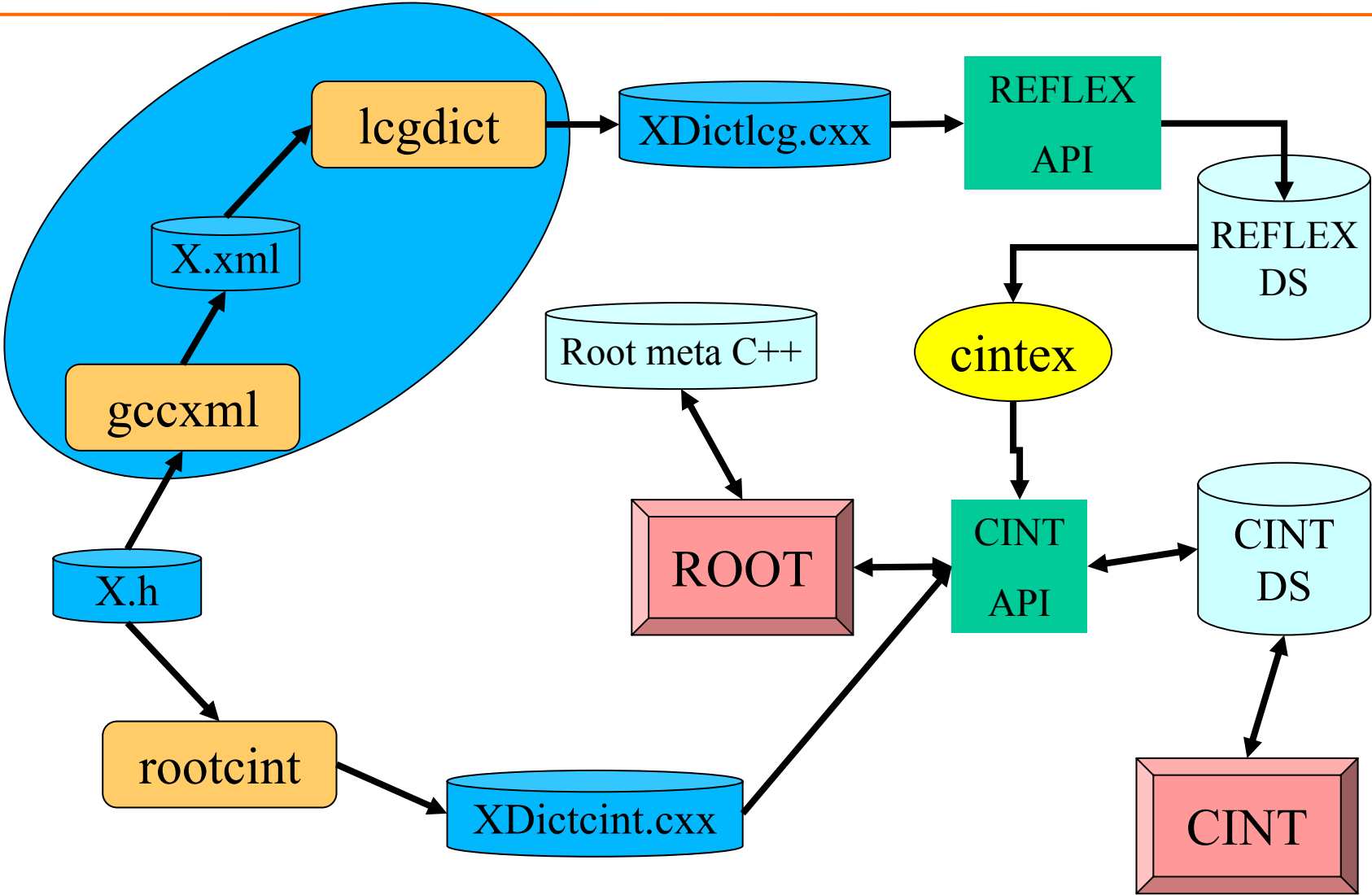
XML

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**

**TreeViewer**

# 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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**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](#)
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# ROOT Discussion Forum



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

**RootTalk**  
ROOT Discussion Forums

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<b>General</b>			
<b>Announcements</b> General Announcements. Moderator <a href="#">rootdev</a>	7	8	Thu Oct 07, 2004 13:11 <a href="#">Valeriy Onuchin</a> →
<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> →
<b>CINT</b>			
<b>CINT Support</b> Get help with installing and running CINT here. Please <b>do not</b> post bug reports or feature requests here. Moderator <a href="#">cintdev</a>	36	114	Thu Feb 24, 2005 22:47 <a href="#">tpechep</a> →
<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