Physics of the B Factories: Computing Issues

http://www.slac.stanford.edu/xorg/BFLB/

2nd Physics of B-factories Meeting
KEK, Tsukuba, Japan
17th - 18th May 2010
http://www.slac.stanford.edu/xorg/BFLB/Workshop KEK/Welcome.html
Adrian Bevan (a.j.bevan@qmul.ac.uk)
Overview

- Previous talk on computing: H. Neal Oct. 2009:
  http://indico.in2p3.fr/getFile.py/access?
  contribId=43&resId=0&materialId=slides&confId=2293

- This talk:
  - Recap some of the issues discussed at SLAC in October 2009.
    - Website
    - Hypernews → Mail fora for communication.
    - How to obtain a SLAC account for the bflb group.
  - Provide information on how to access the SVN repository, so that people can check out, modify and commit changes to the book.
    - You will need to obtain a SLAC account for this.
      - And then take a Cyber security test.
Physics of the
B-Factories

http://www.slac.stanford.edu/xorg/BFLB/
Information under different headings is being maintained.

- e.g. section editors from Theory/Belle/BaBar are now included.
- Contributors to be added: section editors should tell us whom to add!
The CZAR will be Soeren PRELL with Charlotte and Homer as backups.
Hypernews: New member Application Form: pg 2

Subscribe to:
- Only what I specify in each forum.
- Nothing - Please **UNSUBSCRIBE** me from all forums at BFLB HyperNews at hypernews.slac.stanford.edu.

---

**Personal Data**

Please tell us about yourself. Your Name is used to identify you in your messages; otherwise your Email address or User ID is used. You can leave any of these fields blank, if you would prefer.

**Name** (example: John Doe):

[Blank field]

**Personal Home Page URL** (example: http://my.home.net):

[Blank field]

**Reason for This New Account** (example: referral, affiliation, etc) [Note: the account is moderated on this site.]

[Blank field]

---

To specify your password, enter a new password here twice. You may use up to 8 characters. Note that BFLB HyperNews at hypernews.slac.stanford.edu does not store your password in unencrypted form, so if you forget it, you will need to ask for a new password.

**DO NOT USE YOUR INTERNET LOGIN PASSWORD.**

**New Password:**

[Blank field]

**New Password again:**

[Blank field]
Working on the Book: Accounts at SLAC

- The project is stored in the SVN version control software archive.

- To access this you will need an account at SLAC.
  - We expect the section editors to all have accounts.
  - Some of the active contributors may also require accounts if the section editors prefer they commit straight to SVN without.
  - The account creation process is relatively quick – but if you think you need an account, please arrange one now.

- Your account need to be a member of the bflb group.
  - [if you already have a SLAC account without this group privilege, please e-mail Soeren]
Getting a SLAC Account

http://www2.slac.stanford.edu/comp/slacwide/account/account.html

Don't forget to also do the Cyber Security test (same URL).
Group membership: bflb

- The Physics of the B Factories activity uses the group bflb.

- Once you have an account you can check that you are a member of bflb using `ypgroup membership`:

  ```
  $ ypgroup membership
  User 'bevan' is member of the following NIS groups:
  bflb
twobody
bfact-b
  ```

- If you are not a member of this group, please contact Soeren and ask to be made a member (this should only affect people who already have SLAC accounts with another group; i.e. [ex-] BaBar members).
  
  - If you already have a SLAC account, but are not a member of the bflb group, please let me know at this meeting so that I can ask for this to be fixed.
  
  - If you realise this is a problem after the meeting, please contact Homer or Charlotte.
Accessing the latex: SVN

- SVN is like CVS:
  - Modern incarnation that is 'better' than CVS.
  - Similar syntax.
  - SVN is what you've just used for the Belle TDR/SuperB White Papers.

- There is a layout for the book to help you organise your contributions.

  - Project: Book/
  - Working area [CVS HEAD/SVN trunk]: Book/trunk/
  - Sections: sub-directories in trunk.
  - Instructions: Book/README
Checking out the book

- The following command (issued from a SLAC computer) will check out the book:

  ```
  svn checkout file:///nfs/slac/g/bflb/svn/Book
  ```

- Then you can:

  ```
  cd Book/trunk/
  ```

- To change to the directory containing the latex.

Book/README contains the information (and example commands) you will need in order to start contributing to the book. So once you have checked out the latex, you won't need to refer back to this presentation for common svn commands. More information on SVN can be found at the following URL:

  ```
  http://svnbook.red-bean.com/
  ```
Checking out the book

- We are in the process of setting the latex up, and should be able to announce this soon.

- After this has been done you will see many files and directories in `Book/trunk`.

- There are directories: one for each section.

- and latex file 'entry points': one for each section, and one for all sections.
  - These can be used to compile either a section, or the whole book.
  - An up-to-date copy of these compiled latex (as a pdf file) will be stored on the web site at SLAC.

a.j.bevan@qmul.ac.uk
Committing changes back to SVN

- Always update to merge your version with the latest updates in the repository:
  - `svn update`

- If there are conflicts between versions, resolve these by hand.

- Then commit the changes:
  - `svn commit --message 'some useful message'`

- You can check the differences between your version of the book and the trunk with:
  - `svn diff`
Summary

- What account(s) do you need?

<table>
<thead>
<tr>
<th>Account</th>
<th>View Drafts</th>
<th>Read/Write Hypernews</th>
<th>Actively work on latex</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>yes</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>hypernews (HN)</td>
<td>yes</td>
<td>yes</td>
<td>-</td>
</tr>
<tr>
<td>SLAC + HN</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

- Soon we will widely advertise when the latex is put into SVN and ready for people to work with.

- From now on we will exclusively use the hypernews for communication.
Thanks to...

- SLAC computing for agreeing to administer the project on behalf of the community.

- Charlotte Hee and Homer Neal for computing support in managing the Hypernews system and setting up the SVN repository at SLAC for our use.

- Sarodia for maintaining the web site for us.

- Soeren for agreeing to process approvals for account requests.