Hack
OpenOffice.org
for
beginners
Summary

- Introduction
- OpenOffice.org source code
- Manage it
- Build OpenOffice.org
- Hack it
Introduction
Speaker introduction:

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Education Project Co-Lead

Developer for Mac OS x porting Project
Contributing for OpenOffice.org Project since 2003
...

Eric Bachard / Education Project / FOSDEM 2008 Bruxelles
OpenOffice.org Project is ...

A Community Project

( LGPL licence for code, PDL for documentation)

- **Multi OS** (Linux, Windows, Mac OS X, Solaris, FreeBSD, OpenBSD, OpenVMS)

- **Multi architectures** (Intel, PowerPC, ARM, Alpha ...including 32, 64bits)
Everything is project in OpenOffice.org

- Accepted projects: framework, gsl, porting ... (24)
- Native Lang Community (>72)
- Incubator projects (14)
- WebWork (5)

E.g. Education Project is incubator project

( http://education.openoffice.org )
The purpose of the Workshop is …
• Discover the tools commonly used in OpenOffice.org development
• Do some little hacks together
• Have Fun :-)
OpenOffice.org source code
Languages used in OpenOffice.org:

C++ : ~ 90 %
Java : <4,5%
Ansi C : ~ 2,5 %
Perl : 1%
Other (11) < 2 %

Source: http://blogs.linux.ie/caolan/2007/01/
Sources means approximatively 150 modules

-> OpenOffice.org is a framework
The complete tree
+ wiki description:

http://wiki.services.openoffice.org/wiki/Source_code_directories
Download OpenOffice.org source code

- Use cvs
Prepare:

- create a dir containing all the sources:
  
  mkdir FOSDEM08_m248

- go into the right dir
  
  cd FOSDEM08_m248

- use a CVSROOT environment variable
  
  export CVSROOT=":pserver:anoncvs@anoncvs.services.openoffice.org:/cvs"
Checkout the code, e.g.:

cvs co -r SRC680_m248 OpenOffice2
Or download one module only …
cvs co -r SRC680_m248 starmath
Manage it ...
• Master workspace
• Milestone
• Child workspace

... and EIS:

https://tools.services.openoffice.org/EIS2/
• Create a child workspace:
  (e.g. : fosdem08demo)

• Planned state
• Create an issue for the cws
• Add the issue to the cws
• Set the cws as new
-> use the wiki
Connect With the OOo Developer Teams
• IRC Channels:

• server: irc.freenode.net

• channel: #dev.openoffice.org

• Other IRC channels:
  http://wiki.services.openoffice.org/wiki/IRC_Communication
Mailing lists (examples):

- **dev@openoffice.org**: general developers mailing list
- **mac@porting.openoffice.org**: mac porting specific list
- **dev@gsl.openoffice.org**: vcl specific list (more on vcl later)
Some words about become DomainDeveloper for OpenOffice.org project

http://wiki.services.openoffice.org/wiki/User:Ericb
As Summary ....

- For commits/source code -> cvs
- For workspace management -> EIS (+ cwstools)
- Documentation: the wiki
- Urgent Questions: IRC
- Important questions: use mailing lists
Build it ...
Configure the build
solenv
build dependencies
the solver
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Complement:

(url for libraries description on the wiki)
Hack it
Todo for the commit:

• Check out clean starmath code
• Show how create a patch in a modified module
• Add the module into the cws fosdem08demo
• Commit a change in fosdem08demo
• Extract a change from the module
Bonsai :
(bonsai url )

d example: nativeprintdlg01 cws
Buildbots:

(buildbots url)

-> we see our change :-)
Let's start debugging

Rebuild starmath using symbols
use gdb

Add some breakpoint and trace a bit
Some words about OpenOffice.org Education Project....
Main site
Our wiki page
Education project effort
http://wiki.services.openoffice.org/wiki/Education_Project

-> search welcome
Conclusions:

- nothing mysterious
- you can
... and you are welcome :)
Thanks to:

My wife for her infinite patience with me

ULB and FOSDEM 2008

OpenOffice.org Project

Leo Moons for the great and authentic restaurant we were yesterday :)
And don't forget .....
WE NEED YOU

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